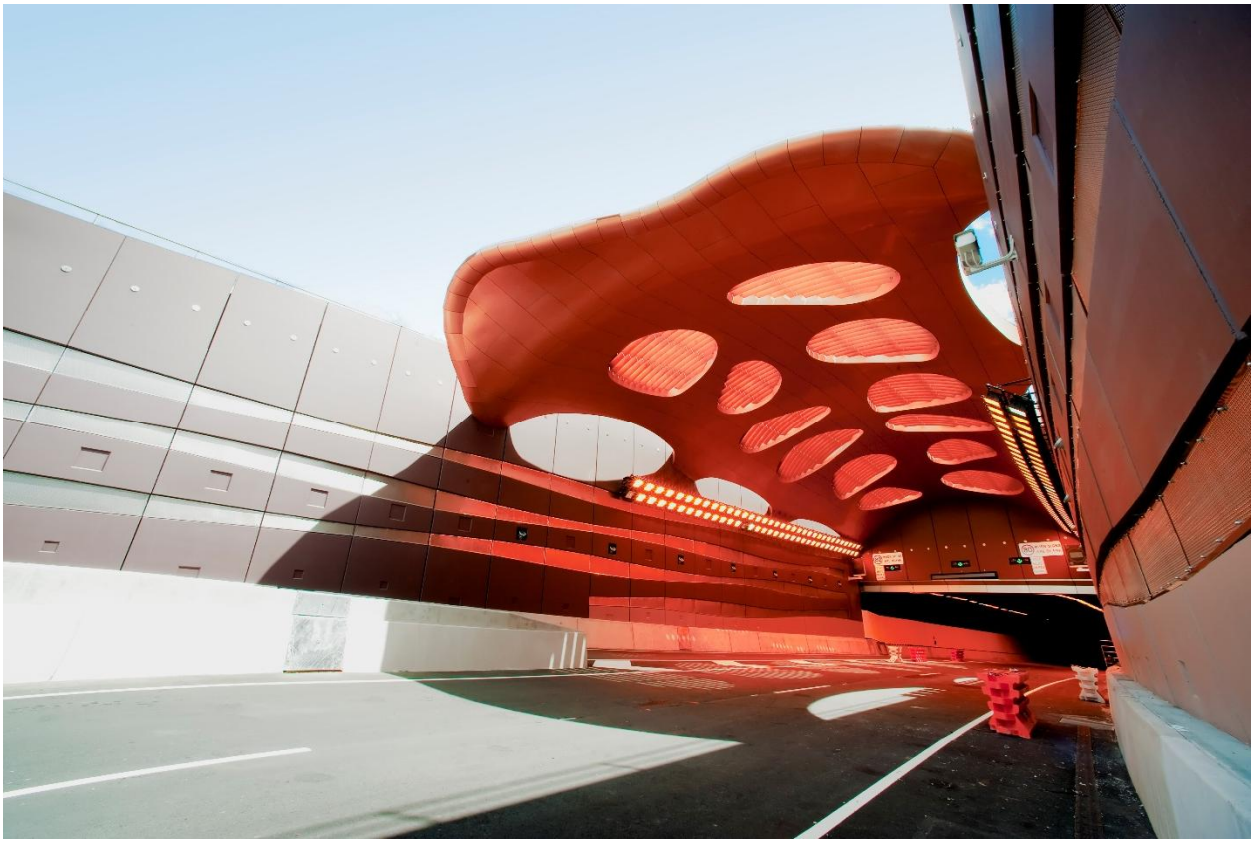
EMERSON ELECTRIC CO.

REVISED INTERIM REMEDIAL MEASURES CONSTRUCTION COMPLETION REPORT

FORMER EMERSON POWER TRANSMISSION FACILITY ITHACA, NEW YORK

OCTOBER 23, 2020



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EMERSON ELECTRIC CO.

PROJECT NO.: 31401545.001
DATE: OCTOBER 23, 2020

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PROFESSIONAL ENGINEER CERTIFICATION

I, David Alan Rykaczewski, certify that I am currently a New York State Registered Professional Engineer as defined in 6 NYCRR Part 375 and that this Revised Interim Remedial Measures Construction Completion Report for the former Emerson Power Transmission facility in Ithaca, New York, was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

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October 23, 2020
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1 INTRODUCTION

On behalf of Emerson Electric Co. (Emerson), WSP USA Inc. has prepared this Revised Interim Remedial Measures (IRM) Construction Completion Report (CCR) for the remediation of soil conditions and sanitary sewers in Operable Unit 2 (OU-2) at the former Emerson Power Transmission (EPT) site in Ithaca, New York ("Site"; Figure 1-1). The IRM activities were performed under Consent Order #A7-0125-87-09, dated July 12, 1987, between the New York Department of Environmental Conservation (NYSDEC) and Emerson.

To facilitate redevelopment of the property for mixed use, Phase II Supplemental Remedial Investigations (SRIs) were conducted at the Site in 2015 and 2016. These investigations were designed to delineate the extent of constituents of concern (COCs) identified in soil and groundwater at concentrations above the New York Codes, Rules and Regulations (NYCRR) Subpart 375-6 Remedial Program Soil Cleanup Objectives (SCOs), the New York State Ambient Water Quality Standards (AWQS) and Guidance Values for Class GA groundwater ("evaluation criteria") and the NYSDEC Sediment Guidance Values. L Enterprises, LLC, entered into an agreement with Emerson to purchase a considerable portion of the former EPT property.

The investigation results were presented in the Phase II SRI Report (WSP 2017), which summarized the conditions in each Area of Concern (AOC) at the Site, identified potential exposure pathways that posed unacceptable risks based on future land use and impact to groundwater, and evaluated the adequacy of delineation to applicable SCOs for the purpose of characterizing the nature and extent of COCs and evaluating remedial alternatives, where necessary.

An IRM Work Plan was submitted and approved by the NYSDEC and New York Department of Health (NYSDOH) on August 22, 2018. The Work Plan addressed soil in the AOCs identified in the SRI where remedy evaluation was determined to be warranted as part of an IRM. The primary objective of the IRM was to remediate soil in accordance with SCOs and engineering controls (e.g., the use of clean fill as a cover for soil contamination) applicable to the planned future use of the property consistent with L Enterprises' redevelopment plans. Soil conditions in one historical AOC, the Former Department 507 Degreaser (AOC 1), and portions of the sanitary sewer network were also addressed in the IRM Work Plan.

In accordance with Paragraph 5.8 of the NYSDEC Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10), this IRM CCR has been prepared to document the implementation of the remedial actions conducted as an IRM and generally follows the format provided in the CCR generic template found on the NYSDEC website. This IRM CCR includes six sections organized as follows:

- Section 1 is the introduction that summarizes the site geology and hydrogeology and the history and planned future use of the site.
- Section 2 summarizes the remedial action objectives (RAOs), a general description of the overall site remedy, and detailed descriptions of the IRM work completed for each AOC and sanitary sewers.
- Section 3 describes the soil remedial actions performed including planning work, site preparation activities, removal actions, compliance sampling, soil cap and cover construction, waste management, and site restoration activities.
- Section 4 lists the major changes, deviations, or additions to the IRM Work Plan.
- Section 5 summarizes the project documentation including reports, photographs, and surveys.
- Section 6 lists the documents referenced in this IRM CCR.

1.1 SITE SETTING

1.1.1 GENERAL

The Site is located at 620 South Aurora Street in Ithaca, New York (Figure 1-2) and encompasses approximately 60 acres. The facility, which includes several buildings, was constructed on partially excavated and backfilled terraces along the bedrock slope above the Cayuga Valley.

The buildings are situated at an elevation of approximately 600 feet above mean sea level (amsl). The main building is flanked by a number of smaller buildings to the southwest and a series of access roads and parking lots that terrace the

hillside above the main building to the east. Undeveloped woodland borders the Site to the southwest along the steep embankments of South Hill. West Spencer Street, which runs parallel to the Site, marks the western limit of the wooded area and the base of the hill. Beyond Spencer Street to the west and in areas along the steep northern approach to South Hill and the Site are residential areas. Six Mile Creek, farther to the west, flows north along the base of South Hill, emptying into Cayuga Lake approximately 2 miles northwest of the Site.

1.1.2 GEOLOGY AND HYDROGEOLOGY

The Site is located on the northern edge of the Appalachian Plateau Physiographic Province, which is characterized in central New York by deeply dissected hilly uplands and glacially gouged stream valleys and lowlands. The Site lies on the limits of one of the dissected uplands and overlooks the Cayuga Valley basin, which formed in a former stream valley eroded and enlarged by the advance of glaciers.

Regional upland geology is comprised of bedrock overlain by glacial deposits of varying thickness and a thin veneer of regolith. In the vicinity of Ithaca, New York, bedrock is classified as the Ithaca Siltstone which is typically well-cemented with generally non-fossiliferous beds ranging in thickness from 0.1 inch to 2.5 feet in thickness. Overburden on the undeveloped hill-slopes in the eastern portion of the Site is comprised of a thin, discontinuous veneer of dark gray bedrock-derived gravelly silt. The shallowest depths to bedrock (i.e., less than 1 foot below ground surface [bgs]) occur along the undeveloped hillsides and beneath buildings and roadways located on excavated bedrock terraces. The overburden is thickest to the west of the main building in the area of the retaining wall (greater than 25 feet bgs) and is comprised primarily of man-made fill, which consists of silty or clayey sand and gravel containing varying amounts of cinder fragments and construction debris. In other areas of the Site, coal ash, slag, and brick fragments are also present.

In the western areas of the Site, where the overburden is thickest, saturated conditions occur between approximately 10 and 20 feet bgs and the top of bedrock. The saturated overburden, where present, has been labeled the A-hydrogeologic zone. The underlying B-hydrogeologic zone is characterized as very highly- to highly-fractured weathered bedrock which is typically saturated. On the Site, the B zone extends to a depth of approximately 8 to 10 feet below the top of bedrock in areas with minimal overburden (i.e., less than 10 feet). The underlying transitional zone (C zone) extends from the base of the B zone to a maximum depth of approximately 55 feet bgs, and the D-zone extends from the bottom of the C zone to a minimum depth of 145 feet bgs.

Groundwater flow direction within the overburden and the B zone generally mimics surface topography, which slopes to the northwest. Groundwater flow within the C and D zones is predominantly through vertical and horizontal joint sets and horizontal bedding plane fractures within the upper sections of bedrock.

1.2 SITE HISTORY

Morse Industrial Corporation began industrial operations at the Site in 1906 to manufacture steel roller chain for the automobile industry. Morse operated the facility until approximately 1928 when the company was bought by Borg-Warner Corporation, which manufactured automotive components and power transmission equipment. In 1983, Emerson acquired Morse Industrial Corporation from Borg-Warner Corporation, as a result of which the Ithaca facility eventually became part of the former Emerson Power Transmission Corporation, a wholly-owned subsidiary of Emerson and a part of Emerson's Power Transmission Solutions business. The former EPT entity continued to manufacture industrial roller chain, bearings, and clutching for the power transmission industry until operations were ceased in 2009. The facility was subsequently decommissioned and has been vacant since 2011.

In December 2014, EPT transferred the property to EMERSUB 15 LLC in anticipation of the sale of its Power Transmission Solutions business, of which EPT was a part. In connection with this transaction, the Consent Order, which originally named both Emerson and EPT as respondents, was amended to make Emerson the sole respondent responsible for the remediation.

In 1987, groundwater containing elevated concentrations of volatile organic compounds (VOCs), specifically chlorinated VOCs (CVOCs), was discovered, originating from the Fire Water Reservoir in the western portion of the property. Subsequent to reporting these findings to NYSDEC, Emerson Electric Co. and EPT entered into a Consent Order with the NYSDEC (Index # A7-0125-87-09; NYSDEC 1988) requiring Emerson to develop and implement a Remedial Investigation and Feasibility Study followed by a remedial program to address the release of hazardous substances to the environment. The initial Remedial Investigation Report was completed by Radian Corporation (later Radian International LLC) in 1990

(Radian 1990). A groundwater pump and treat system was installed as an IRM to address VOC-affected groundwater near the Fire Water Reservoir; operation began in late 1991. In 1994, the Feasibility Study completed by Radian proposed a dual-phase groundwater extraction and treatment system as the remedial alternative based on testing that indicated such a system would outperform the existing IRM (Radian 1994). The alternative was approved by NYSDEC and detailed in a Record of Decision (ROD; NYSDEC 1994). The dual-phase extraction (DPE) system began operating in 1996.

Based on the results of a SRI and Alternatives Analysis performed between 2004 and 2008, NYSDEC issued a ROD Amendment (2009) addressing three areas presently classified as OUs: the former Fire Water Reservoir (OU-1), the remainder of the property (OU-2), and the South Hill neighborhood (OU-3). The limits of OU-1 and OU-2 are shown in Figure 1-2. The ROD Amendment required upgrades to the existing groundwater treatment system in OU-1 and addressed specific AOCs within OU-2. In addition, a Feasibility Study that evaluates remedial actions to address Site groundwater was submitted in August 2020 to the NYSDEC.

1.3 PLANNED REDEVELOPMENT

L Enterprises has entered into an agreement to purchase a considerable portion of the former EPT property and, accordingly, has developed conceptual plans for Site redevelopment. Redevelopment will incorporate a mix of residential, commercial and industrial uses. The completed IRM remedies for the 10 AOCs described herein take into consideration the anticipated future uses of the Site (Sheet 2 of the Record Drawings).

2 SUMMARY OF SELECTED INTERIM REMEDIAL MEASURES

2.1 REMEDIAL ACTION OBJECTIVES

The RAOs for the IRM activities in each AOC were developed to address the presence of COCs in soil[1] at concentrations exceeding the anticipated future use criteria for direct contact (Restricted Residential [RR], Commercial or Industrial Use SCOs) or at concentrations exceeding the protection of groundwater (PoG) SCOs in areas where there is concurrent groundwater impact (i.e., exceedances of the NYSDEC Part 703 evaluation criteria). COCs identified during the Phase II SRI include CVOCs, polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and one or more of the following metals: arsenic, barium, cadmium, chromium, lead, mercury, copper, and nickel. At the direction of the NYSDEC, an additional RAO was established during execution of the IRM activities to address soil containing greater than 500 milligrams per kilogram (mg/kg) total PAHs in accordance with NYSDEC Final Commissioner Policy (CP-51). Additional information regarding this RAO is provided in Section 4.1.8. RAOs for groundwater will be addressed as part of the Feasibility Study.

In summary, the following table lists the RAOs for soil for each AOC on the Site:

	Soil Cleanup Objective			
	Direct Contact			**Protection of Groundwater**
Area of Concern	**Restricted Residential**	**Commercial**	**Industrial**	
AOC 1 - Former Department 507 Degreaser	-	-	-	X
AOC 26 - Building 24 Area	-	-	-	X
AOC 27 - Former Salt Baths Area	X	-	-	X
AOC 28 - Building 30/Oil Shed Area	-	X	-	X
AOC 29 - Former Propane Storage Area	-	X	-	-
AOC 30 - Rice Paddy Area	-	-	X	-
AOC 31 - Upper Parking Lot 6 Area	X	-	-	-
AOC 32 - Former Spray Pond / Drainage Ditch Area	X	-	-	-
AOC 34 - Area East of Buildings 13A and 14	X	-	-	X
AOC 35A - East of Building 24	X	-	-	-
AOC 35C - Building 11A	X	-	-	X
AOC 35D - Near Parking Lot 4	X	-	-	-
AOC 35G - South of Parking Lot 3	X	-	-	-
AOC 35H - Parking Lot 3	X	-	-	-
AOC 35K - Former Railway Right-of-Way (LBA-SB-240)	X	-	-	-
AOC 35L - Former Railway Right-of-Way (DS-1)	X	-	-	-

The remedy selected to meet the soil RAOs in each AOC is summarized in the following section.

[1] RAOs for sediments did not apply during the IRM work. During the Phase II SRI, the NYSDEC advised that drainage ditch samples initially classified as sediment should be compared to soil SCOs as the drainage ditches do not support aquatic life.

2.2 DESCRIPTION OF SELECTED INTERIM REMEDIAL MEASURES

The proposed approach for the implementation of the IRM included:

1. Removal and off-site disposal of soils/fill with COC concentrations exceeding the anticipated future use criteria for direct contact (Restricted Residential, Commercial or Industrial Use SCOs) or at concentrations exceeding the PoG SCOs in areas where there is concurrent groundwater impact (i.e., exceedances of the NYSDEC Part 703 evaluation criteria). In addition, soils were also required to meet a 500 mg/kg cleanup level for total PAHs for all subsurface soil.
2. Compliance (confirmation and documentation) sampling to assess remedial performance of the IRMs against the established SCOs. Confirmation samples were collected when the limits of soil removal were determined based on attainment of a SCO. Documentation samples were collected when soil cleanup was based on excavation to pre-specified limits such as physical constraints like bedrock, steep slopes, paved roadways, or structures. Details of the compliance sampling approaches are described in Section 3.6.
3. Construction and maintenance of soil cap and soil cover systems to prevent exposure to the remaining contaminated soils/fill remaining at the Site.
4. Restoration of each AOC to its original or improved condition to the extent practical.

The tables below list the AOCs identified for remediation by each anticipated future land use and their associated COCs, affected media, and applicable SCO drivers.

Anticipated Future Land Use – Restricted Residential

AOC	Description/Sub-Area	Contaminant(s)	Affected Media	SCO Driver
1	Former Department 507 Degreaser	CVOCs	Soil, Groundwater	PoG
26	Building 24 Interior (2nd floor)	CVOCs	Soil, Groundwater	PoG
	Building 24 Exterior (parking lot)	CVOCs	Soil, Groundwater	PoG
27	Former Salt Baths	Metals (Ba, Cr)	Soil, Bedrock, Groundwater	RR (Ba, Cr), PoG (Ba)
31	Upper Parking Lot 6	Metals (As, Ba, Cd, Cr, Cu, Ni)	Soil	RR
32	Former Spray Pond Area	PAHs, PCBs, Cyanide, and Metals (As, Ba, Pb, Hg)	Soil	RR
	Former Spray Pond Area/Drainage Ditch	PAHs, PCBs, Cyanide, and Metals (As, Ba, Pb, Hg)	Drainage Ditch Soil	RR
34	Area East of Buildings 13A and 14	CVOCs	Soil, Groundwater	PoG
		PAHs	Soil	RR
35A	East of Building 24	Metals (As)	Soil	RR
35C	Building 11A	CVOCs	Soil, Groundwater	PoG
		PAHs	Soil	RR
35G	South of Parking Lot 3	Metals (As, Ba, Cd, Pb, Hg)	Soil	RR
35H	Parking Lot 3	PAHs	Soil	RR
35K	Former Railway Right-of-Way	Metals (As)	Soil	RR
35L	Former Railway Right-of-Way	PAHs	Soil	RR

Anticipated Future Land Use – Commercial

AOC	Description/Sub-Area	Contaminant(s)	Affected Media	SCO Driver
28	Oil Shed Area - Northeast	CVOCs, Metals (As, Ba)	Soil, Groundwater	Commercial (metals) PoG (CVOCs)
29	Former Propane Aboveground Storage Tank Area	PAHs, Metals (As)	Soil	Commercial

Anticipated Future Land Use – Industrial

AOC	Description/Sub-Area	Contaminant(s)	Affected Media	SCO Driver
30	Rice Paddy Area	PAHs, Metals (As)	Soil	Industrial

IRM activities performed for each AOC are described in detail in Section 2.3. In addition to the AOCs, IRM activities were performed for the sanitary sewers inside the main building and water discharges from Building 18. These actions are described in Section 2.4.

2.3 AREAS OF CONCERN

This section describes in detail the specific IRMs completed in each AOC. Ontario Specialty Contracting (OSC) of Buffalo, New York was selected to implement the IRM Work Plan. WSP was retained to perform full time oversight and construction management during the work. IRM work began on October 8, 2018 and was temporarily stopped in January 2019 at the onset of wintry conditions. IRM work resumed in May 2019 and was substantially completed on September 27, 2019. At the time work was stopped in January 2019, IRM excavation activities had begun in several AOCs, but excavation endpoints had not been reached as determined by the results of confirmation samples. To minimize contractor downtime when work resumed, a sampling plan for additional soil delineation in AOCs 32, 34, 35A, and 35H was submitted to and approved by the NYSDEC in March 2019. The additional delineation sampling and analysis was performed in April 2019, and the results formed the basis for additional work in those AOCs when work resumed. NYSDEC officials were present for part of the field work and, as specified below, made determinations in the field whether or not the delineation and excavation of contaminated areas was adequate. At times when NYSDEC was not present for such determinations, officials were kept informed of IRM progress through routine correspondence. At a minimum, the AOC excavation drawings and compliance sample data were submitted to the NYSDEC for concurrence of RAO attainment before beginning backfilling and restoration activities.

The sections below provide IRM details for each AOC including the COCs present, the applicable SCO drivers, the selected IRM (e.g., excavation, soil cover, or cap), special conditions applicable to each AOC (e.g., utilities, drainage features, steep slopes, pavements, buildings, etc.), the results of sampling (e.g., confirmation, documentation, and delineation), restoration details, and sequence of work activities. References to Record Drawings (Sheets 2 through 10), analytical data tables (Tables 1 through 19), and ancillary information and data (Appendices A through R) are provided as appropriate.

2.3.1 AOC 1 – FORMER DEPARTMENT 507 DEGREASER

CVOCs were present in shallow and deep soil at concentrations exceeding PoG SCOs within the driveway and utility corridor in the former Department 507 Degreaser area (Sheet 6 of the Record Drawings). The IRM for shallow soil within AOC 1 was excavation with offsite disposal and compliance sampling to assess IRM performance against the RAOs. The IRM for deep soil that could not be safely excavated was construction of a low-permeability cap to minimize infiltration to the deeper soil zone. AOC 1 initially measured approximately 1,200 square feet that comprised two distinct areas west of Building 3. The primary area was approximately 56 feet by 22 feet and the second area, located approximately 15 feet to the

east, was approximately 5 feet by 7 feet. Based on historical use of this area for degreasing operations, affected CVOC soil excavated from AOC 1 was determined to be a listed hazardous waste under waste code F001.

Before beginning excavation, WSP petitioned the NYSDEC for a Contained-In Determination under Technical and Administrative Guidance Memorandum TAGM 3028 to allow a portion of the AOC 1 excavated soil to be managed as a non-hazardous waste. The NYSDEC approved the request on April 12, 2019[2]. The Contained-In Determination request and approval documentation is provided in Appendix A. Additional information is provided in Section 3.8.

Soil was excavated to a depth of approximately 3 feet where the shallowest of several active utilities (high pressure gas line) was encountered. As evident by facility drawings and field observations, gas, water, electric, fuel oil, storm water, and sanitary sewer lines were present within or near the footprint of the AOC 1 excavation. In accordance with the IRM Work Plan, a 5-foot horizontal buffer was maintained to protect the integrity of the active utility lines.

Confirmation samples were collected for CVOC analysis along the excavation perimeter to assess compliance with the SCOs. Additional excavation was performed where confirmation sample results exceeded the PoG SCOs. Data from two historical soil borings (SB-AOC1-21 and SB-AOC1-24) were used as final confirmation samples along the northern perimeter. Based on the sampling results for sample CS-6-EW where trichloroethene was detected above the PoG SCO, the excavation was advanced to the east approximately 15 feet to connect the two affected areas and to the west approximately 14 feet. Based on the results for sample CS-13-WW where trichloroethene and tetrachloroethene were detected above the PoG SCOs, the excavation was extended to the west approximately 13 feet. Confirmation samples were collected from the excavation bottom at a depth of 3 feet. Documentation samples were also collected from the excavation bottom where deeper excavation could not be performed due to the presence of active utilities. Two documentation samples, DS-2-BT and DS-4-BT, contained trichloroethene above the PoG SCO. The compliance sampling results are provided in Table 1 and the analytical data reports in Appendix B. Inactive utilities were removed within the excavation footprint and plugged at the perimeters under the guidance of facility personnel. The final limits of excavation, sample locations, and active utility lines are shown on Sheet 6 of the Record Drawings.

Following completion of excavation and sampling, a demarcation layer was installed across the base of the excavation. The excavation was backfilled with imported fill that was placed and compacted to a depth of 1 foot bgs, followed by installation of a low-permeability cap consisting of a geosynthetic clay liner (GCL), aggregate subbase, and asphalt pavement. The final area of soil excavation and cap construction was approximately 1,580 square feet. Additional details on the cap and restoration can be found in Sections 3.7.1 and 3.9, respectively. GCL installation around new and existing monitoring well penetrations was performed in accordance with manufacturer's standard procedures (Appendix C).

2.3.2 AOC 26 – BUILDING 24 AREA

AOC 26 comprises two separate areas, one inside Building 24 on the second level and one outside Building 24 in the parking lot and access road between Buildings 1 and 24, where CVOCs were present in shallow soil at concentrations exceeding PoG SCOs (Sheet 3 of the Record Drawings).

BUILDING 24 INTERIOR

The IRM to address CVOCs present in shallow soil above PoG SCOs within a localized area inside Building 24 included excavation to bedrock with offsite disposal and confirmation sampling to assess compliance with the RAOs. The initial and final area measured approximately 25 feet by 12 feet (300 square feet). After concrete saw cutting and removal, soil was excavated to bedrock, approximately 2.5 feet below the top of the concrete surface. Several active and inactive utilities were encountered including sanitary sewer, water, electrical conduit, and a concrete sump of unknown origin. The sump was encountered approximately 4 feet south of a building column (Sheet 3 of the Record Drawings), measured approximately 3 feet by 3 feet, and contained a 12-inch deep, square depression. Upon removing additional soil, a broken 4-inch clay tile pipe was exposed near the concrete sump. The pipe ran parallel to a 6-inch cast iron sanitary line to approximately 5 feet from the edge of the excavation boundary where it terminated. PID readings collected during removal of the sump and surrounding

[2] The NYSDEC initially approved the request on December 7, 2018. The approval letter listed a specific non-hazardous disposal facility, Seneca Meadows Landfill in Waterloo, New York, that was no longer being utilized by the remedial action contractor. The approval letter was subsequently revised and reissued with the name of the new disposal facility, Ontario County Landfill in Stanley, New York.

soil ranged from 20 ppm near the surface to 140 ppm directly beneath the sump and broken clay tile pipe. The concrete sump, its potentially associated piping, and soil beneath it was excavated to bedrock.

Following excavation, one confirmation sample was collected for CVOC analysis from the eastern sidewall. CVOCs were not detected in the sample. Existing sample data from two samples (26-1 and 26-2) collected during the Phase II SRI were used as final confirmation samples on the west and north sidewalls. Because excavation was advanced to bedrock, no bottom sample was collected. Inactive utilities (water and sewer) within the excavation were removed and plugged at the perimeter under the guidance of facility personnel. A storm water drain line was damaged during excavation. Before repair, a dye test was performed as described in Section 3.4.4 to determine if the pipe was connected to the Building 24 seep. The final limits of excavation, sample locations, and active and inactive utility lines are shown on Sheet 3 of the Record Drawings. The compliance sampling results are provided in Table 2 and the analytical data reports in Appendix B.

After completion of the excavation and sampling, the area was backfilled with imported fill that was placed and compacted to a depth of 6 inches bgs, followed by replacement of the concrete slab. Concrete replacement details are provided in Section 3.9.3. Excavated soil and removed concrete was transferred to a temporary staging area and subsequently managed as described in Section 3.8.

BUILDING 24 EXTERIOR

The IRM to address CVOCs present in shallow soil above PoG SCOs in the outdoor portion of AOC 26 included excavation with offsite disposal and compliance sampling to assess IRM performance against the RAOs. The irregularly-shaped area initially measured approximately 8,215 square feet. After pavement removal, soil was excavated to bedrock along the southern portion of the excavation. The northern portion was excavated to a depth up to 4.5 feet bgs. Railroad ties from a former rail spur were removed as necessary to facilitate the removal of soil.

Confirmation samples were collected for CVOC analysis along the excavation perimeters and bottom where bedrock was not encountered to assess compliance with the SCOs. Documentation samples were collected along the sidewalls below the existing sidewalk. None of the compliance samples contained CVOCs above PoG SCOs. Active utilities within the excavation footprint were protected during work. Utilities within the excavation area determined to be inactive were removed and plugged at the perimeter under the guidance of facility personnel as necessary. Discolored soils encountered near active utility lines and at the drainage ditch inlet near the southwest corner of Building 24 were sampled for PAHs and PCBs (samples “PIPE1”, “PIPE2”, and “DITCH”) at the request of the NYSDEC; however, the NYSDEC did not require additional removal where criteria were exceeded, on the basis that only slight exceedances of the SCOs occurred (see additional information in Section 4.1.2). The final limits of excavations, sample locations, and active utility lines are shown on Sheet 3 of the Record Drawings. The compliance sampling results are provided in Table 2 and the analytical data reports in Appendix B.

Following completion of the excavation and sampling, the final area encompassing approximately 9,700 square feet was backfilled with imported fill that was placed and compacted to a depth of 6 inches bgs, followed by in-kind replacement of the asphalt pavement. Additionally, the storm water ditch running adjacent to Building 24 was reconfigured and lined with riprap to improve upgradient drainage from Parking Lots 4 and 5 and Buildings 11A, 13B, and 24. Excavated soil, asphalt, and railroad ties were transferred to a temporary staging area and subsequently managed as described in Section 3.8.

2.3.3 AOC 27 – FORMER SALT BATHS AREA

Barium and chromium were present at concentrations above the RR SCO, and barium was present at concentrations above the PoG SCO in samples collected below the concrete floor and former salt baths in Building 14 (Sheet 4 of the Record Drawings). The materials below the concrete floor and former salt baths consisted primarily of fractured bedrock, utility trench fill, and subbase materials. The IRM included excavation of loose or fractured bedrock containing salt crystallization with offsite disposal. The initial area measured approximately 1,000 square feet. Prior to excavation the concrete slab and concrete-lined salt baths were removed using wet sawing methods. After concrete removal, loose and fragmented bedrock material was removed using conventional excavation equipment to competent bedrock which was encountered at depths ranging from approximately 4 inches to 4.5 feet bgs.

While no compliance sampling was originally proposed, the NYSDEC requested sampling of residuals that could not be effectively excavated and loose fill materials near a drain line beneath one of the former salt baths. Based on SCO exceedances of barium in the two samples (42,800 mg/kg in DS-1 and 5,100 mg/kg in DS-2), the NYSDEC requested

additional removal of loose bedrock and utility trench fill which was performed by vacuum extraction until only competent bedrock remained and salt crystallization was no longer observable. The two inactive drain lines were plugged with grout. The final limits of excavation, sample locations, and inactive utility lines are shown on Sheet 4 of the Record Drawings. The sampling results for samples DS-1 and DS-2 are provided in Table 3 and the analytical data reports in Appendix B.

The final post-excavation bedrock surface was screened at 20 locations by X-ray fluorescence (XRF) methods which showed elevated barium concentrations. The XRF measurement locations and results are shown on Sheet 4 of the Record Drawings. In addition, post-excavation XRF measurements for barium were collected from 12 locations along the concrete wall below the original floor surface and the results were confirmed by laboratory analysis. The wall samples were collected by drilling 1-inch diameter holes 1 inch into the wall to generate a fine powder for sample collection. The concrete wall XRF and laboratory analytical data for barium are shown on Table 3 and Sheet 4 of the Record Drawings.

Based on the results, the area was backfilled with controlled density fill (CDF), also known as flowable fill, to form a more impermeable barrier than the backfill used in other AOCs. The CDF was placed to within 6 inches of the top of the existing slab. After curing, crushed stone was placed on top of the CDF to the top of the concrete grade. The final area of excavation and restoration was approximately 1,060 square feet. Restoration details are provided in Section 3.9.3. Excavated materials and removed concrete was transferred to a temporary staging area and subsequently managed as described in Section 3.8.

2.3.4 AOC 28 – BUILDING 30/OIL SHED AREA

CVOCs were present at concentrations above the commercial and PoG SCOs in soil samples collected in the Building 30/Oil Shed area (Sheet 7 of the Record Drawings). The IRM for AOC 28 included excavation of soil with elevated CVOC concentrations followed by compliance sampling to assess IRM performance against the RAOs. AOC 28 consists of two areas. The larger area nearest to the oil shed initially measured approximately 4,050 square feet. The smaller area at the base of the bedrock outcrop northeast of the oil shed measured approximately 300 square feet. Excavation was completed to the limits and depths as planned followed by confirmation sampling for CVOCs. As specified in the IRM Work Plan, sample depth measurements in the larger area of AOC 28 were recorded in feet amsl due to the unevenness of the initial ground surface and inconsistent excavation depths that were necessary to attain the PoG SCOs for CVOCs. No exceedances of CVOC criteria were recorded in the perimeter and bottom confirmation samples. One historical sample collected during the Phase II SRI was used as a final confirmation sample for CVOCs.

During excavation activities, discolored soils were encountered in a portion of the excavation. At the request of the NYSDEC, four samples were collected from the discolored materials (M1 through M4 on Table 4) and analyzed for CVOCs, metals, PCBs, and cyanide. Arsenic, barium, and cyanide were found at concentrations above commercial and PoG SCOs. Based on the results, ten additional samples were collected for delineation (S-1 through S-10 on Table 4). Several samples exceeded barium and arsenic SCOs, but none exceeded cyanide SCOs. The discolored soils were removed to the extent practicable; however, the NYSDEC did not require additional compliance sampling. The NYSDEC accepted the PoG exceedances for arsenic and barium without additional excavation with the agreement that downgradient monitoring wells will be monitored for metals as part of the selected remedy for groundwater pursuant to the Feasibility Study. The commercial SCO exceedances would be addressed by a soil cover of at least 1-foot thickness. One final confirmation sample (CS-16-BT) was collected near sample M-4 to confirm removal of soil containing cyanide above SCOs. The final limits of excavation and sample locations are shown on Sheet 7 of the Record Drawings. The sampling results are provided in Table 4 and the analytical data reports in Appendix B.

Following completion of excavation and sampling, a demarcation layer was installed across the base of the excavation where bedrock was not encountered and the area backfilled with imported fill to a depth of 6 inches bgs. The surface was covered with topsoil to existing grade and revegetated. The smaller portion of the excavation at the base of the bedrock outcrop was restored with gravel. The final area of excavation and restoration in the upper portion of AOC 28 was approximately 4,100 square feet and in the lower portion was approximately 350 square feet. Additional details on the restoration can be found in Section 3.9. Excavated soil and debris was transferred to a temporary staging area and subsequently managed as described in Section 3.8.

2.3.5 AOC 29 – FORMER PROPANE ABOVEGROUND STORAGE TANK AREA

PAHs and metals (arsenic) were present in soil at concentrations exceeding commercial SCOs within the former propane storage tank area (Sheet 8 of the Record Drawings). The IRM for AOC 29 included excavation with offsite disposal and

compliance sampling to assess IRM performance against the RAOs. The initial excavation area measured approximately 14,000 square feet. While AOC 29 is located in an area designated for future commercial use (subject to a 1-foot excavation and soil cover), the NYSDEC requested that the excavation be increased to a depth of 2 feet. After removing several concrete tank saddles, soils were excavated to a depth of 2 feet bgs. No excavation was conducted near the edge of the steep slopes located on all sides of AOC 29.

After initial excavation to a depth of 2 feet bgs, compliance samples were collected for PAH and arsenic analyses along the excavation perimeter and bottom. Documentation samples were collected at the bottom of the excavation and on the north, east, and south sidewalls where additional excavation was not practicable adjacent to the steep slopes. Confirmation samples were collected along the western perimeter, most of which exceeded the SCOs. Based on the sampling results, the excavation was advanced to the south approximately 20 feet to the edge of the steep slope and to the west approximately 15 feet to the edge of the asphalt roadway. Documentation samples were collected at the new excavation endpoints. Approximately half (13 of 24) of the final documentation samples exceeded commercial SCOs for one or more PAHs or arsenic.

Three confirmation samples exceeded 500 mg/kg total PAHs. One of the samples (CS-2-WW) slightly exceeded the criterion at 660 mg/kg; however, the NYSDEC did not require deeper excavation at this location. The NYSDEC did require additional excavation to a depth of 2.5 feet bgs below two of the samples, CS-5-WW and CS-7-WW, that contained 8,042 and 5,723 mg/kg total PAHs respectively. One additional confirmation sample CS-8-BT was collected after additional excavation; it contained 22 mg/kg total PAHs. The final limits of excavation and sample locations are shown on Sheet 8 of the Record Drawings. The compliance sampling results are provided in Table 5 and the analytical data reports in Appendix B.

Following completion of excavation and sampling, a demarcation layer was installed across the base of the excavation followed by backfilling with 1.5 feet of imported fill to a depth of 6 inches below the original ground surface. The final limits of excavation and backfilling measured approximately 16,000 square feet. AOC 29 was not restored with topsoil to accommodate the planned future use of this area. The 1.5 feet of fill exceeded the commercial land use soil cover requirement of 1 foot. Excavated soil and removed concrete were transferred to a temporary staging area and subsequently managed as described in Section 3.8.

2.3.6 AOC 30 – RICE PADDY AREA

PAHs and metals (arsenic) were present in shallow soil at concentrations exceeding industrial SCOs within the former rice paddy area (Sheet 8 of the Record Drawings). The IRM for PAHs and arsenic in shallow soils included excavation with offsite disposal and compliance sampling to assess IRM performance against the RAOs. The area initially measured approximately 2,620 square feet. Soil was excavated to a depth of 1 foot bgs. No excavation was conducted within 5 feet of the edge of the steep slope located on the north and south sides of the excavation. Per DER-10 guidance, soils deeper than 1 foot did not require excavation to meet the industrial SCOs; however, to be conservative the NYSDEC requested removal of soil containing PCBs where two deep samples exceeded industrial SCOs. These two smaller areas exhibiting elevated PCB concentrations were excavated to 10 feet bgs and 7 feet bgs, respectively. In accordance with the IRM Work Plan, no compliance samples were collected after excavation of soil containing PCBs. Several piles of asphalt debris were also removed at the western perimeter of AOC 30.

Compliance samples were collected for PAH and arsenic analyses along the excavation perimeter and bottom. Documentation samples were collected on the north and south sidewalls where additional excavation was not practicable adjacent to the steep slopes. Data from four historical soil borings were used as final confirmation samples where applicable along the east and west sidewalls. Additional confirmation samples were necessary to supplement the existing data. Except for two sample locations, additional excavation was performed where confirmation samples the exceeded the SCOs for PAHs. Confirmation sample results at two locations (CS-1-BT beneath one of the asphalt piles and CS-13-EW) slightly exceeded industrial PAH SCOs, but were accepted by the NYSDEC to remain in place. Approximately half (3 of 7) of the final documentation samples exceeded industrial SCOs for one or more PAHs or arsenic. The final limits of excavation and sample locations are shown on Sheet 8 of the Record Drawings. The compliance sampling results are provided in Table 6 and the analytical data reports in Appendix B.

Following completion of excavation and sampling, a demarcation layer was installed across the base of the excavation and the area backfilled with imported fill to a depth of 6 inches bgs. The surface was covered with topsoil to existing grade and

revegetated. The final limits of excavation and restoration measured approximately 3,420 square feet. Excavated soil and asphalt debris were transferred to a temporary staging area and subsequently managed as described in Section 3.8.

2.3.7 AOC 31 – UPPER PARKING LOT 6

Metals were present in shallow soil at concentrations above the RR SCOs in a grassed and wooded area adjacent to the upper parking lot 6 (Sheet 8 of the Record Drawings). The IRM to address metals, specifically arsenic, barium, cadmium, chromium, copper, and nickel, included excavation with offsite disposal and compliance sampling to assess IRM performance against the RAOs. The initial area measured approximately 230 square feet. Soil was excavated to a depth of 2 feet bgs.

Compliance samples were collected for metals analyses along the excavation perimeter and bottom. Confirmation samples were collected along the eastern perimeter. Documentation samples were also collected from the excavation bottom and along the excavation perimeter adjacent to the existing roadway where pavement will remain. Additional excavation was performed where confirmation samples exceeded the SCOs. Based on the sampling results, the excavation was advanced to the east approximately 12 feet. The confirmation sample results at one location (CS-5-EW) slightly exceeded the RR SCOs for arsenic and barium, but were accepted by the NYSDEC to remain in place. All three documentation samples, two from under the asphalt pavement and one from the excavation bottom, contained one or more metals above the RR SCOs. The final limits of excavation and sample locations are shown on Sheet 8 of the Record Drawings. Compliance sampling results are provided in Table 7 and the analytical data reports in Appendix B.

Following completion of excavation and sampling, a demarcation layer was installed across the base of the excavation and the area backfilled with imported fill to a depth of 6 inches bgs. The surface was covered with topsoil to existing grade and revegetated. The final limits of excavation and restoration measured approximately 900 square feet. Excavated soil was transferred to a temporary staging area and subsequently managed as described in Section 3.8.

2.3.8 AOC 32 – FORMER SPRAY POND/DRAINAGE DITCH AREA

PCBs, PAHs, and metals, including arsenic, barium, lead, and mercury, were present at concentrations above RR SCOs in surface soil and drainage ditch soil in the former spray pond/drainage ditch area (Sheet 5 of the Record Drawings). The IRM to address these COCs included excavation with offsite disposal and compliance sampling to assess IRM performance against the RAOs. AOC 32 consists of two areas along the drainage ditch separated by a culvert. The upgradient portion is near the main site entrance from South Aurora Street. The downgradient portion consists of Open Ditch 1 and Open Ditch 2 and is downslope of Buildings 17 and 18 and the former fire water reservoir. The initial combined area measured approximately 13,300 square feet, but was increased to approximately 14,100 square feet based on the results of additional delineation sampling conducted in April 2019 before excavation in the downgradient portion of AOC 32.

During the additional delineation sampling, soil samples were collected from 16 soil borings to further delineate the extent of excavation. Ten samples were prioritized as primary samples (labeled “P” on Sheet 5 and Table 8) and based on the analytical results the remaining six samples prioritized as secondary samples (labeled “S” on Sheet 5 and Table 8) were analyzed. A total of 15 of the 16 samples exceeded RR SCOs for one or more COCs.

Soil was excavated to a depth of 2 feet bgs or to bedrock if shallower except in a downgradient portion of Open Ditch 2 near the skimmer/weir and Outfall 001 shed where soil was removed to approximately 3 to 4 feet bgs. Excavation was bounded by the railroad shed and steep slopes on the upslope side of the ditch, by the existing curb and pavement of Parking Lot 3, by the landscape planter and associated retaining wall, and the recovery wells and treatment system piping associated with the OU-1 groundwater treatment system. The landscape planter was formerly used as a containment structure for a 20,000-gallon fuel oil tank that was identified as historical AOC 13 in 2008 in which no PAHs were detected in the soil. Railroad ties from two former rail spurs were removed as necessary to facilitate the removal of soil. Excavated materials were transferred to a temporary staging area and subsequently managed as described in Section 3.8.

The oil skimmer and weir box were removed and cleaned before general excavation near the end of Open Ditch 2. Wet soil and sludge-like materials removed from this area were solidified with saw dust to absorb free liquids before transfer to the staging area. During excavation at the end of Open Ditch 2, three groundwater seeps with a small amount of oily product were found below the level of the weir box inlet and outlet. At the request of the NYSDEC, the seep water was sampled for VOCs, barium, and cyanide and the product sampled for VOCs. Three CVOCs, cis-1,2-dichloroethene, trichloroethene, and

vinyl chloride, were detected at concentrations exceeding groundwater evaluation criteria; barium and cyanide were detected, but at concentrations below groundwater evaluation criteria (Table 18). CVOCs were not detected in the product sample (Table 19). Water from the seeps was collected, transferred to storage tanks, and managed as described in Section 3.3.9. No water or product were discharged from the site without treatment.

After excavation, compliance samples were collected and analyzed for PAHs, PCBs, and metals (arsenic, barium, lead, and mercury). One confirmation sample (CS-1-EW) was collected from the eastern sidewall in the upgradient portion of AOC 32 and two confirmation samples (CS-2-EW and CS-3-EW) were collected along the eastern perimeter in the downgradient portion. Based on the confirmation sampling results, the upgradient portion of AOC 32 was advanced approximately 85 feet to the east to the outlet from catch basin CB-01. The downgradient portion was advanced approximately 15 feet to the east and included removal of a 5-foot section of damaged culvert and underlying affected soil. The NYSDEC accepted the final limit of excavation at the midpoint between samples TP-1 and CS-2-EW along this eastern perimeter. Documentation samples were collected from the excavation bottom where bedrock was not encountered, along the steep slopes on the upslope and downslope sides of the drainage ditch, adjacent to the existing railroad shed and roadways where structures and pavements will remain, and in the vicinity of recovery wells and piping associated with the groundwater IRM system. No documentation samples were collected beneath the landscape planter because no soil was present at the 2-foot excavation depth. Most documentation samples (53 of 63) contained one or more COCs above RR SCOs (Table 8).

One documentation sample (DS-28-NW) contained greater than 500 mg/kg total PAHs. Pavement and underlying soil measuring 18 feet by 7 feet was removed from this area. In addition, documentation sample DS-37-SW exceeded the RR SCO for cyanide. Approximately 150 square feet of soil represented by this sample was excavated. A bluish staining, believed to be a result of historical discharge of water containing Prussian Blue[3] to the drainage ditch, was found on portions of the bedrock surface below the drainage ditch. Because removal of the affected bedrock was not practicable, the entire length the downgradient drainage ditch was lined with GCL before backfilling. The final limits of excavation, GCL, and locations of delineation borings, test pits, confirmation, and documentation samples are shown on Sheet 5 of the Record Drawings. Drainage ditch reconstruction details are provided on Sheet 9 of the Record Drawings. Compliance sampling results are provided in Table 8 and the analytical data reports in Appendix B.

Following completion of excavation and sampling, a demarcation layer was installed across the base of the excavation where bedrock was not encountered and the area backfilled with imported fill. The upgradient portion (near guard shack) of the drainage ditch, approximately 1,640 square feet at the completion of excavation, was restored with a layer of woven geotextile followed by a 1-foot layer of NYSDOT 620.03 riprap. The downgradient drainage ditch was similarly constructed except with the GCL added to prevent surface water contact with bluish stained bedrock. The remaining areas of AOC 32 were covered with 6 inches of topsoil to the existing grade and revegetated. The combined area of excavation and restoration in the lower portion of AOC 32 comprising Open Ditch 1 and 2 was 18,150 square feet.

The area beneath the skimmer/weir box was backfilled with gravel to allow seep water to accumulate. As an interim measure, an activated carbon sock was installed adjacent to the seeps to filter water potentially containing CVOCs. The skimmer and weir box were replaced at the same pre-excavation elevation (below the level of the seeps). The wooden shed was not replaced. Seep discharge will be addressed as part of the recommended remedy described in the Feasibility Study. The carbon sock is periodically replaced.

2.3.9 AOC 34 – AREA EAST OF BUILDINGS 13A AND 14

CVOCs above PoG SCOs and PAHs above RR SCOs were present in surface soil samples collected east of Buildings 13A and 14 (Sheet 4 of the Record Drawings). The IRM for soil within AOC 34 was excavation with offsite disposal and compliance sampling to assess IRM performance against the RAOs. The PAH and CVOC affected areas partially overlapped and combined for an initial area of 2,665 square feet in grassed, paved, and graveled areas (Sheet 4 of the Record Drawings). Soil was excavated to a depth of approximately 2 feet in the portion of AOC 34 affected only by PAHs (magenta line on Sheet 4) and to 2 to 3 feet in CVOC affected areas (green line on Sheet 4). Asphalt pavement was removed as necessary to facilitate removal of CVOC-impacted soils. Except as noted below, pavement was not removed to address PAH-impacted soils.

[3] Prussian Blue, a cyanide-containing compound, was reportedly used in the metal working processes in Buildings 17 and 18.

Compliance samples were collected for CVOC or PAH analyses (or both where required) along the excavation perimeter and bottom. Data from three historical soil borings (34-01, 34-04, and WSP-SB-622) were used as final confirmation samples. None of the compliance samples exceeded PoG SCOs for CVOCs. Areas with confirmation sample results that exceeded the RR SCOs for PAHs were subjected to additional excavation. When excavation endpoints were not defined at the end of 2018, additional delineation samples were collected in April 2019 to identify the excavation endpoints in advance of additional excavation. Based on the PAH sampling results, the excavation was advanced along the grassy strip between the building and the road toward the east approximately 110 feet and toward the west approximately 5 feet. Further soil removal occurred in a localized area from which three samples (CS-1-EW, CS-4-EW, and DS-3-SW) exceeded the 500 mg/kg total PAH threshold. Sample P1 contained benzo(b)fluoranthene at a concentration slightly above the RR SCO, but was accepted by the NYSDEC to remain in place. Four of seven final documentation samples contained one or more PAHs above RR SCOs. The final limits of excavation for CVOCs and PAHs, sample locations, and active utility lines are shown on Sheet 4 of the Record Drawings. The compliance sampling results are provided in Table 9 and the analytical data reports in Appendix B.

Following completion of excavation and sampling, a demarcation layer was installed across the base of the excavation and backfilled with imported fill to a depth of 6 inches bgs. The asphalt pavement for the roadway was replaced in kind. The original gravel-covered portion of AOC 34 near the methanol transfer station was also paved with asphalt. The remaining surfaces were covered with topsoil to existing grade and revegetated. The final combined excavation and restoration area in AOC 34 was 4,150 square feet. Excavated soil was transferred to a temporary staging area and subsequently managed as described in Section 3.8.

2.3.10 AOC 35 – ISOLATED LOCATIONS

Isolated locations in which COCs were identified above screening levels during the Phase II SRI were combined under one AOC and differentiated by letter designation as described below:

- AOC 35A – East of Building 24
- AOC 35C – Building 11A
- AOC 35D – Near Parking Lot 4
- AOC 35G – South of Parking Lot 3
- AOC 35H – Parking Lot 3
- AOC 35K – Former Railway Right-of-Way / SB-240
- AOC 35L – Former Railway Right-of-Way / DS-1

All of the AOC 35 subareas are located in portions of the site planned for future restricted residential use and contain COC concentrations above PoG or RR SCOs. The following sections describe the COCs present and the IRM actions performed for each of the AOC 35 subareas.

AOC 35A – EAST OF BUILDING 24

Arsenic was detected at concentrations above the RR SCO in surficial soils in the area east of Building 24 (Sheet 7 of the Record Drawings). The IRM originally planned for this area was excavation with offsite disposal and compliance sampling to assess IRM performance against the RAOs. During excavation activities to the original limits of approximately 920 square feet, a layer of dark-colored ash-like material was encountered at a depth of approximately 1 to 2 feet bgs. Post-excavation confirmation samples showed exceedance of RR SCOs for arsenic in this material. Original delineation samples collected during the Phase II SRI showed that the topsoil above the discolored layer did not exceed RR SCOs. The initial excavation area was backfilled with imported fill pending additional sampling and planning.

In April 2019, additional delineation samples were collected to determine the extent of arsenic exceedances in the top 2 feet of fill subject to the RR SCO criteria. Samples from 0 to 2 feet bgs were collected from 15 Geoprobe® cores. Analysis of the samples were prioritized by distance from the initial excavation. The first 5 samples (P1 through P5) collected approximately 10 feet outward from the original excavation did not contain arsenic above the RR SCO. The remaining 10 samples (S1 through S10) were archived at the laboratory. Upon review of the data and boring logs, the NYSDEC requested additional biased sampling comprising just the ash-like material from the P1 through P-5 locations. The samples were collected from test pits (TPP-1 through TPP-5). Arsenic concentrations in 3 of the 5 locations (TPP-2, TPP-4, and TPP-5) exceeded the RR

SCO. While no samples were analyzed, borings S1 through S10 (except S5) encountered the ash-like materials at various depths. The boring logs are provided in Appendix D.

The NYSDEC requested sampling of groundwater from monitoring well MW 38-T (located approximately 250 feet to the northwest) to determine if exceedances of PoG criteria in AOC 35A has resulted in downgradient groundwater impact. The well was sampled on May 22, 2019, in accordance with WSP SOPs and analyzed for arsenic and cyanide. No exceedances of groundwater evaluation criteria were reported. The data is provided in Table 18 and the analytical data report in Appendix B.

In October 2018, a soil cover plan was approved by the NYSDEC and NYSDOH to address arsenic exceedances of RR SCOs in AOC 35A. The revised IRM included a 2-foot soil cover over the area known to contain arsenic above RR SCO and extending the soil cover to include areas where the ash-like materials were encountered in the Geoprobe® borings. Data from one historical sample at TP-18 was used to delineate the limits of the soil cover on the northwest side. No additional samples were collected and no trees were removed during execution of the revised IRM plan. After placing a demarcation barrier, the existing thickness of fill above the ash-like layer was supplemented with additional topsoil such that the final thickness of the soil cover is at least 2 feet. Additional topsoil, particularly in the original excavation area, was placed to assure proper drainage. The final surface, measuring approximately 6,840 square feet, was revegetated with grass. The limits of excavation and soil cover, boring locations and sample locations are shown on Sheet 7 of the Record Drawings. Compliance sampling results are provided in Table 10 and the analytical data reports in Appendix B.

AOC 35C – BUILDING 11A

CVOCs were present at concentrations above PoG SCOs, and PAHs were present at concentrations above RR SCOs in soil beneath the concrete slab in Building 11A (Sheet 3 of the Record Drawings). The IRM for soil within AOC 35C was excavation with offsite disposal and compliance sampling to assess IRM performance against the RAOs. The excavation area measured approximately 1,350 square feet. Following concrete removal, soil was excavated to bedrock, which was encountered between 0.5 feet to 3 feet bgs, then transferred to a temporary staging area for subsequent management as described in Section 3.8. Excavation to the west was bounded by the existing loading dock wall. A localized area along a utility corridor was excavated to a depth of 6 feet bgs. Inactive utilities including a former fire suppression line were removed.

Compliance samples were collected for both CVOCs and PAHs. Confirmation samples were collected along the eastern and southern excavation perimeter. Existing SRI sample data from borings 35-37, 35-38, and 35-39 were used as final confirmation samples along the northern and western sidewalls. No bottom samples were collected along the excavation bottom. One documentation sample was collected from the trench fill where the utility corridor extended below the loading dock on the north side. Based on the sampling results, no additional excavation was required. There were no exceedances of PoG criteria for CVOCs. One or more PAHs exceeded RR SCOs in all samples; however, all of the samples were below the concrete pavement. The final limits of excavation, sample locations, and utility lines are shown on Sheet 3 of the Record Drawings. The compliance sampling results are provided in Table 11 and the analytical data reports in Appendix B.

Following completion of excavation and sampling, the excavation was backfilled with imported fill then covered with a layer of crushed gravel to the top of the concrete slab elevation.

AOC 35D – NEAR PARKING LOT 4

PAHs were present at concentrations above RR SCOs in surficial soil near Parking Lot 4 (Sheet 7 of the Record Drawings). The IRM for soil in AOC 35D was excavation with offsite disposal. The initial and final area measured approximately 350 square feet. Soil was excavated to a depth of 2 feet bgs and transferred to a temporary staging area for subsequent management as described in Section 3.8. Existing SRI sample data were used as final confirmation samples along the perimeter; no additional compliance samples were collected. The final limits of excavation are shown on Sheet 7 of the Record Drawings. The SRI data used as final confirmation samples are provided in Table 12.

Following completion of excavation, a demarcation layer was installed across the base of the excavation and backfilled with imported fill to a depth of 6 inches bgs. The surface was restored with topsoil to the existing grade, and the area was revegetated.

AOC 35G – SOUTH OF PARKING LOT 3

Metals, specifically arsenic, barium, cadmium, lead, and mercury, were present at concentrations above RR SCOs in the area south of Parking Lot 3 (Sheet 5 of the Record Drawings). The IRM for soil in AOC 35G was excavation with offsite disposal and compliance sampling to assess IRM performance against the RAOs. The excavation area measured approximately 500 square feet. Soil was excavated to a depth of 2 feet bgs along the upslope side of the drainage ditch and transferred to a temporary staging area for subsequent management as described in Section 3.8.

Compliance samples were collected for arsenic, barium, cadmium, and lead analyses from the excavation bottom and perimeter. Confirmation samples collected from the east, south, and west sidewalls and documentation samples from the bottom of the excavation did not exceed RR SCOs for metals. The arsenic concentration on the north sidewall (labeled CS-2-EW) adjacent to AOC 32 (which had not yet been remediated) exceeded the RR SCO. While expanding the excavation approximately 5 feet to the north, a seep containing oil was exposed near the interface of the AOC 32 drainage ditch. Oily soil at the interface was sampled and found to contain CVOCs above PoG criteria and metals and PCBs above RR SCOs (sample S-1-BT) and was removed. A new soil berm was constructed and oil sorbent materials deployed as a temporary measure to prevent oil discharge to the drainage ditch. The entire AOC 35G area was covered with polyethylene sheeting to prevent direct precipitation from contacting the exposed materials.

To assess the extent of oil seepage from bedrock, five test pits (TP-1 through TP-5) were installed along the presumed path of the soil/bedrock interface in the east-west directions which were part of AOC 32. After allowing the test pits to equilibrate for 24 hours, no oil seepage was observed in any of the test pits. Before backfilling, samples from the test pits were collected and analyzed for the COCs identified in AOC 32 (PAHs, PCBs, and metals). TP-1 and TP-2 contained exceedances of RR SCOs and were excavated. Samples from TP-3, TP-4, and TP-5 did not exceed RR SCOs and were used as documentation samples for AOC 32. The test pit data are provided with AOC 32 compliance sample results in Table 8.

The polyethylene cover was left in place during the temporary work stoppage during the winter of 2018/2019. Periodic inspections were conducted during the hiatus to replace sorbent material; however, no significant amount of oil was observed on the absorbent pads. The area was uncovered during remediation of AOC 32 in the summer of 2019, and the temporary berm was removed. A final documentation sample (DS-3-BT) collected after final removal in July 2019 did not exceed RR SCOs for PCBs, PAHs, or metals. The final limits of excavation in AOC 35G, test pit locations, and sample locations are shown on Sheet 5 of the Record Drawings. Compliance sampling results are provided in Table 13 and the analytical data reports in Appendix B.

Following completion of excavation and sampling, a layer of GCL was extended from the AOC 32 drainage ditch up the slope of AOC 35G (a small amount of backfill was placed first for GCL protection against protruding bedrock) followed by backfill with imported fill to a depth of 4 inches bgs. To reduce erosion and stabilize the steep slope, a layer of geotextile was placed across the footprint of AOC 35G. Riprap and stone were placed to form a drainage swale and barrier to protect the slope. The final excavation and restoration area measured approximately 650 square feet. A typical cross section of the AOC 32 drainage ditch and AOC 35G slope protection is provided on Sheet 9 of the Record Drawings.

AOC 35H – PARKING LOT 3

PAHs were detected at concentrations above RR SCOs in surficial soil adjacent to Parking Lot 3 near the groundwater IRM treatment building (Sheet 7 of the Record Drawings). The IRM for soil in AOC 35H was excavation with offsite disposal and compliance sampling to assess IRM performance against the RAOs. The area initially measured approximately 770 square feet. Soil was excavated to a depth of 2 feet bgs and transferred to a temporary staging area for subsequent management in accordance with Section 3.8.

Compliance samples were collected for PAH analysis after initial excavation. Confirmation samples were collected along the eastern and western excavation perimeter. One Phase II SRI sample (35-34) was used as a final confirmation sample along the north wall. Documentation samples were collected on the excavation bottom and south wall under the asphalt pavement. Confirmation samples that exceeded the SCOs along the east sidewall were followed by additional excavation approximately 18 feet to the east. After three successive confirmation samples, one of which (CS-4-EW) exceeded 500 mg/kg total PAHs, did not identify the limit of excavation to the east, additional delineation samples were collected in April 2019.

Three of four delineation samples (P1, S1, and S3) collected from a heavily wooded area adjacent to Parking Lot 3 exceeded PAH SCOs. The elevated PAH concentrations in the delineation samples were likely due to the presence of asphalt contained in the soil in this area. The NYSDEC reviewed the results and the site conditions. Based on the presence of asphalt debris strewn throughout the wooded area, the NYSDEC approved the plan to remove the debris and scrape the

surface in a manner that removed visibly impacted materials and protected existing tree roots. Following excavation of soil exceeding 500 mg/kg total PAHs, two final documentation samples were collected. All final documentation samples contained one or more PAHs slightly above RR SCOs. The final limits of excavation (approximately 1,120 square feet) and surface debris removal and sample locations are shown on Sheet 7 of the Record Drawings. Compliance sampling results are provided in Table 14 and the analytical data reports in Appendix B.

Following completion of excavation, a demarcation layer was installed across the base of the 2-foot excavation and the area backfilled with imported fill to a depth of 6 inches bgs. The entire AOC 35H including the area where asphalt debris was removed was covered with topsoil to the existing grade and revegetated.

AOC 35K – FORMER RAILWAY RIGHT-OF-WAY

Arsenic was detected in one sample at a concentration above RR SCOs in surficial soils in AOC 35K along the former rail line (Sheet 7 of the Record Drawings). The IRM for AOC 35K was excavation with offsite disposal. The initial area measured approximately 500 square feet. Soil was excavated to a depth of 2 feet bgs. Railroad ties from the former railway were removed as necessary to facilitate the removal of soil. The soil and railroad ties were transferred to a staging area for subsequent management as described in Section 3.8.

Existing SRI sample data were used as final confirmation samples along the perimeter; no additional compliance samples were collected from AOC 35K. The final limits of excavation are shown on Sheet 7 of the Record Drawings. The SRI data used as final confirmation samples are provided in Table 15. Following completion of excavation, a demarcation layer was installed across the base of the excavation and backfilled with imported fill to a depth of 6 inches bgs. The surface, measuring approximately 620 square feet, was covered with topsoil to existing grade and revegetated. The drainage ditch adjacent to the AOC 35K was not included in the excavation area, but a portion of it was reconstructed during backfilling and restoration. Woven geotextile was placed over the fill followed by a 6-inch layer of riprap for erosion protection along the ditch line and for support of the existing weir box.

AOC 35L – FORMER RAILWAY RIGHT-OF-WAY

PAHs were detected at concentrations above RR SCOs in surficial soils along a second portion of the former railway right-of-way (Sheet 7 of the Record Drawings). The IRM for AOC 35L was excavation with offsite disposal and compliance sampling to assess IRM performance against the RAOs. The initial and final area measured approximately 1,400 square feet. Soil was excavated to a depth of 2 feet bgs and included a portion of a drainage ditch that was not flowing at the time of excavation. Railroad ties from the former railway line were removed as necessary to facilitate the removal of soil. The soil and railroad ties were transferred to a staging area for subsequent management as described in Section 3.8.

Compliance samples for PAH analysis were collected along the excavation perimeter. Confirmation samples were collected along the east and west sidewalls and documentation samples were collected along the north and south sidewalls where further excavation was not practicable due to steep slopes. The confirmation sample results (CS-1-WW and CS-2-EW) slightly exceeded the RR SCO for benzo(b)fluoranthene but were accepted by the NYSDEC to remain in place. The final limits of excavation and sample locations are shown on Sheet 7 of the Record Drawings. Compliance sampling results are provided in Table 16 and the analytical data reports in Appendix B. Following completion of excavation, a demarcation layer was installed across the base of the excavation and backfilled with imported fill to a depth of 6 inches bgs. The surface was covered with topsoil to existing grade and revegetated. The drainage ditch was restored as a grassed swale to match the existing ditch lining.

2.4 SANITARY SEWERS AND WATER DISCHARGES

Portions of the sanitary sewer system were evaluated in Buildings 4, 5, 6, 6A, 8, 9, 13A, 14, 15, and 35 (Sheet 10 of the Record Drawings). Trench drains, manholes, and manways within buildings historically associated with manufacturing operations were located, accessed, and inspected, as were many of the other manholes and manways encountered outside the buildings.

Where not impeded by residual solids in pipes or other blockage (e.g., collapsed pipe), a tracer probe system equipped with a locator was advanced through specific pipe runs from the manholes to identify their alignments and connections at the surface. The results of the tracer probe study were used to determine locations for trenching during the subsequent soil investigation to determine if the sewers had impacted nearby soils. When the alignment of a pipe could be identified at the

surface using the tracer probe, a 5- to 10-foot section of concrete floor slab was removed running parallel and immediately adjacent to the pipe. When the alignment could not be identified, a 5- to 10-foot section of concrete floor slab was removed perpendicular to the presumptive location of the pipe to confirm its presence and alignment. The slabs were saw cut, broken, and removed with an excavator. The excavations were then advanced to the invert (base) elevation of the sewer pipe for inspection and sample collection. A sample was collected from immediately beneath to 1 foot below the base of the excavation and was submitted for laboratory analyses, the results of which were used to evaluate the integrity of the line. Samples were collected from areas with visible signs of staining or impacts, if encountered or from the center of the excavation. The depths of the excavations varied between approximately 1 and 5 feet below the floor level. Based on the shallow nature of bedrock in most of the areas evaluated, the samples consisted of a combination of soil, backfill, and weathered rock. All samples were analyzed for barium and cyanide. The soil sample collected from TP-8 along a pipe believed to be connected to MH-D1 was also analyzed for cadmium based on data that indicated its presence in this manhole at a concentration above the TCLP limit, but the SCO for cadmium was not exceeded. In addition, the soil sample collected from the test pit along the pipe between MH-35 and MH-53 was analyzed for VOCs, but no exceedances of SCOs were recorded. At the request of the NYSDEC, VOC samples were also collected from test pits 1, 9, 12, 13, and 17 where oil was present, but no exceedances of SCOs were recorded. The analytical results for the soil samples collected from the sanitary sewer test pits are provided in Table 17. The laboratory data reports are included in Appendix B.

Additional evaluation and residuals removal were conducted during IRM activities including removing residual water and solids from selected manholes and trenches and evaluating conditions of sewer lines at specified locations within the facility buildings as shown on Sheet 10 of the Record Drawings. Manholes cleaned include MH-42A/B, MH-A6, MH-22, MH-24B, and the unnamed utility corridor sump in Building 2 (Building 2 Oil Pit shown on Sheet 3 of the Record Drawings).

The test pit investigation targeted two primary sewer networks, identified as Network 1 and Network 2 as shown on Sheet 10 of the Record Drawings. Network 1 consists of Test Pits 1, 2, 3, 4, 5, 11, 12, 13, 14, 19, 20, 22, and 23 and Network 2 consists of Test Pits 6, 7, 8, 9, 10, 15, 16, 17, 18, and 21. Test pits within each network were installed over three levels of the main building referred to as upper, middle, and lower levels. The primary COC identified in Network 1 was barium and in Network 2 was cyanide.

2.4.1 NETWORK 1

Samples from Test Pits 1, 2, 3, and 4 on the upper level contained barium above applicable SCOs. Water was present in all four of these test pits which may have been influenced by the salt bath area which is close in relative proximity. The depths of the four test pits (ranging from 1.5 to 3 feet bgs) are shallower than the depth of groundwater (6.8 feet bgs) as measured in the nearby monitoring well LBA-MW-35, which indicates that the water in the test pits is perched water. The water levels in the test pits did not fluctuate over time while the pits were left open indicating that there was not a continuous inflow of water from sources other than the salt baths nor was there infiltration. Furthermore, after remediation, backfilling, and restoration of the salt bath area as described in Section 2.3.3, the source of water and its potential migration pathway to the sewer network was eliminated. The mere presence of the water in this localized portion of the sewer network several years after cessation of plant operations is evidence that the water does not readily infiltrate the bedrock surface in this area. Without evidence of infiltration, there is no apparent transport mechanism for contaminant migration to groundwater in this portion of Network 1.

Based on the elevated barium in residuals within the MH-A1, A2, A3, and A4 sewer system, the sewer lines were removed by saw cutting and removing the overlying concrete, manholes, sewer lines, and pipe trace residuals down to bedrock. The exposed bedrock pipe traces and manhole areas were then vacuumed to remove residuals. While most of the sewer trench removal area was within bedrock, an approximate 15-foot length between TP-4 and MH-A4 was excavated into soil. Two documentation samples were collected from the soil sidewalls at depths of 3.75 feet bgs in this zone (Sheet 10 of the Record Drawings). The samples contained barium at concentrations of 1,330 mg/kg and 12,100 mg/kg. As an additional protective measure, the sewer line trench was then filled with CDF to eliminate the potential preferential migration pathway from the salt bath area through the sewer line trench and to shallow groundwater. The combination of water source control from the salt bath area, migration pathway elimination along the pipe trench, and the concrete cover over the barium contaminated soil addresses the SCO exceedances in this farthest upgradient portion of Network 1.

No pipes were found in Test Pits 14, 19, and 20 and therefore no samples were collected. There were no exceedances of applicable SCOs for barium and cyanide in soil samples from Test Pits 5, 12, 13, and 23. Soil samples from Test Pits 11 and 22 exceeded the PoG SCOs for barium; however, no water was present in these test pits that were excavated to bedrock.

With no water present and due to the area being covered with a concrete slab, there is no transport mechanism for the soil migration to groundwater pathway.

2.4.2 NETWORK 2

Soil samples from Test Pits 7, 9, and 17 contained cyanide above applicable SCOs (Test pit 7 also contained barium). Soil samples from Test Pits 8, 9, 16, and 21 did not exceed any SCOs for barium or cyanide. No pipes were found in Test Pits 6, 10, and 18, and therefore no samples were collected.

Cyanide concentrations in Test Pits 7 and 9 exceeded both the RR and PoG SCO. While fragments of clay pipes were found in the trench fill, the steel pipes in these two pits were found to be intact with no water present at the inverts of the pipes in the bottoms of the pits – 3.5 feet in Test Pit 7 and 4.5 feet in Test Pit 9. Cyanide in Test Pit 17 only exceeded the RR SCO, and while the pipe in this pit was broken, no water was present in the pit. With no water in the pits and no continuing source of process water discharge to the sewers, there is no transport mechanism for the soil migration to groundwater pathway. In addition, the area is covered with a concrete slab and the limits of cyanide impact to groundwater have been defined onsite (i.e. no offsite migration).

Based on these results and analysis in Networks 1 and 2, concrete removed during the sewer evaluation was stockpiled and characterized for offsite disposal. The underlying excavated material was temporarily stockpiled on plastic sheeting adjacent to each excavation and subsequently characterized for offsite disposal. The voids of the excavations were backfilled with imported fill to 6 inches bgs and finished flush with the surrounding concrete surface using stone.

2.4.3 BASEMENT WATER ROOM

During evaluation of test pit data and sanitary sewer line tracking in Network 2, two water samples were collected from the Basement Water Room below Building 35, but accessible from the adjacent level in Building 8 (Sheet 10 of the Record Drawings). Sample “BD-8 Pipe” was collected from the water flow discharging from a PVC pipe and Sample “BD-8 Pool” was collected from standing water pooled in a pit in the back portion of the room. Samples were analyzed for CVOCs, barium, cyanide. No exceedances of groundwater evaluation criteria were detected. The water sample results are included in Table 18.

2.4.4 BUILDING 18 SUMPS / OUTFALL 004 CLEANOUT

Several drains, sumps, and drain lines in the vicinity of Building 18 and Outfall 004 were cleaned as part of the IRM activities (Sheet 5 of the Record Drawings). Outfall 004 is the outlet of a 10-inch diameter vitreous clay pipe that discharges on the hillside west of Building 18. The sources of the water discharging from Outfall 004 are groundwater seeps in the basement wall of Building 18. The water discharging from Outfall 004 contained elevated lead and mercury. The following actions were completed to address potential sources of lead and mercury detected in the discharge samples from Outfall 004.

In January 2019, a tracer probe equipped with a live feed video camera was advanced from Outfall 004 through the pipe run into Building 18. The video feed confirmed extensive buildup of sediment and debris in the pipe run and sumps located in Building 18. The pipes and sumps were cleaned with the following procedures:

- A drain cleaning pipe “snake” with a multidirectional pressure washer head and scrub brush attachment was advanced the length of the pipe run. Low water pressure was used to ensure that the pipe run was not damaged by jetting water. The pipe snake was surged through the length of the pipe run multiple times to insure all debris and sediment was broken free. All water, debris, and sediment were collected using high vacuum and subsequently drummed.
- The Building 18 sumps, drain inlets, and floor areas surrounding the sumps were cleaned using a combination of physical means (shovel, breaker bars, scrapers), high vacuum, and pressure washing. Prior to cleaning activities, the pipes entering and exiting the sumps were temporarily plugged to prevent solid residuals and water from being discharged. All water, debris, and sediment were collected using high vacuum and transferred to 55-gallon drums for subsequent disposal.
- Upon the completion of cleaning activities, the tracer probe equipped with a live feed video camera was advanced through the pipe run to confirm that all residuals had been removed and that the pipe trace had not been damaged.

As indicated by the activities described above, the track down investigation and corrective actions have been completed to address the potential sources of lead and mercury in discharges from Outfall 004. To determine if the cleaning activities conducted at Outfall 004 were sufficient, WSP collected monthly water samples from this outfall from May 2019 through October 2019. For each sampling event, an 8-hour composite water sample was collected for lead analysis, and a grab water sample was collected for mercury analysis. Outfall samples were placed in a cooler with ice and delivered with completed chain-of-custody forms to SGS North America, Inc., laboratory in Dayton, New Jersey. Samples were analyzed for lead using U.S. Environmental Protection Agency (EPA) Method 200.7 and for mercury using EPA Method 1631 Rev. E. The post-cleaning lead sample results ranged from non-detect to 10.6 micrograms per liter (µg/l) compared to the pre-cleaning sample result of 27.3 µg/l, and the mercury sample results ranged from 5.9 nanograms per liter (ng/l) to 25.0 ng/l compared to the pre-cleaning sample result of 87.7 ng/l. Based on the results, the cleaning activities conducted at this outfall in January 2019 appear sufficient, and no additional actions are necessary.

3 SOIL INTERIM REMEDIAL MEASURES

Soil IRM activities were conducted at the former Emerson Power Transmission facility in general accordance with the NYSDEC-approved Interim Remedial Measures Work Plan for OU-2. Field work began on October 7, 2018, and was substantially completed on September 27, 2019. Work was temporary stopped from January through April 2019 due to the onset of wintry conditions. Deviations from the approved work plan are described in Section 4.

3.1 CONTRACTORS AND CONSULTANTS

WSP, on behalf of Emerson, solicited bids from several qualified contractors to implement the IRM scope of work. On October 1, 2018, WSP USA Inc. entered into a contract agreement with Ontario Specialty Contracting, Inc. (OSC) of Buffalo, New York. WSP was retained by Emerson to perform full-time field oversight and construction management. WSP project manager, David Rykaczewski, serves as the Engineer of Record for the IRM project.

Other subcontractors utilized by WSP included analytical laboratories and drilling services. OSC assigned a full-time site superintendent and staffed the project with operators and laborers. OSC self-performed most site work, but subcontracted specialty and professional services such as utility locators, land surveyor, geotechnical laboratory, compaction testing services, backfill suppliers, and waste transportation and disposal services.

LaBella Associates of Rochester, New York provided oversight on behalf of L Enterprises, LLC, the prospective buyer and future developer of a large portion of the facility. LaBella did not have authority to direct the work but maintained a line of communication with WSP for site issues potentially affecting future site redevelopment.

3.2 GOVERNING DOCUMENTS

3.2.1 HEALTH AND SAFETY PLAN

A site-specific health and safety plan (HASP) was prepared for the work, dated October 5, 2018, which complies with 29 Code of Federal Regulations (CFR) 1910.120, the Hazardous Waste Operations and Emergency Response regulations and all other applicable site and worker safety requirements mandated by the Federal Occupational Safety and Health Administration. All subcontractors were required to prepare and follow their own HASP that is commensurate with the work and activities.

The primary anticipated hazards included potential worker and public exposure to construction hazards and potential chemical exposure. Worker and public safety hazards included those typically found at a construction site using heavy equipment. Potential chemical exposures included those derived from inhalation of vapors and particulates and direct contact with soils containing CVOCs, PAHs, metals, and other constituents detected in Site investigation samples. The following engineering controls were established to minimize these exposures:

- The excavation surfaces were maintained in a damp condition to minimize dust generation
- Continuous air monitoring was conducted while work was being performed to reliably measure airborne contaminants, to delineate areas where respiratory protection is required, and to verify that control measures were adequate
- Work zones were established, including exclusion zones, contaminant reduction zones, and support zones, and workers wore personal protective equipment as specified in the HASP

A copy of the HASP was available at the Site during the conduct of all activities to which it applied.

3.2.2 NOTICE OF INTENT AND STORMWATER POLLUTION PREVENTION PLAN

A site-specific Stormwater Pollution Prevention Plan (SWPPP) was prepared for the IRM work on August 27, 2018 (revised on October 5, 2018) in accordance with the State Pollutant Discharge Elimination System (SPDES) General Permit for

Stormwater Discharges from Construction Activity Permit No. GP-0-15-002 and requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control. The SWPPP included a fully executed Notice of Intent (NOI) that was submitted to the NYSDEC. The SWPPP identified potential sources of pollution and engineering practices and controls to be implemented before any intrusive soil disturbance activity commenced. The SWPPP also outlined inspections and maintenance procedures and the reporting process for any additional erosion and sedimentation controls that were required to be implemented during the duration of work due to unanticipated site conditions. Copies of inspection reports and other SWPPP documentation are provided in Appendix E.

3.2.3 COMMUNITY AIR MONITORING PLAN

A site-specific Community Air Monitoring Plan (CAMP) was prepared for the work performed during IRM activities including excavation, staging, transportation, and disposal of soils from AOCs. The CAMP identified quantitative response levels, actions (e.g. dust suppressant, work stoppage), and procedures to ensure the protection of the downwind community (i.e. off-site receptors including residences and businesses and on-site workers such as employees or visitors to any building located on the site) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The CAMP required 15-minute running average, particulate air monitoring for particulates less than 10 micrometers in size (PM-10) and organic vapor monitoring. Particulates were monitored using TSI® DustTrak II aerosol monitors which provided real-time mass readings and data logging. Organic vapors were monitored using a RAE Systems MiniRAE 3000 photoionization detector (PID) with data logging capabilities. No exceedances of CAMP criteria were recorded during execution of the IRM field activities. CAMP data is provided in Appendix F.

3.2.4 PERMITS AND APPROVALS

The following permits and approvals were obtained:

- Interim Remedial Measures Work Plan (OU-2) approval by NYSDEC and NYSDOH
- NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity GP-0-15-002
- SWPPP Acceptance Form by City and Town of Ithaca
- Building permit issued by the City of Ithaca
- Contained-In Determination approval by NYSDEC for AOC 1 Soils
- Various waste Profile approvals by various disposal facilities
- Several Requests to Import/Reuse Fill or Soil form approvals by NYSDEC

3.2.5 STANDARD OPERATING PROCEDURES

Remediation performance sampling, monitoring, and related field activities were conducted in accordance with WSP's standard operating procedures (SOPs) and NYSDEC policy documents DER-10, *Technical Guidance for Site Investigation and Remediation* and CP-51, *Soil Cleanup Guidance*. Field monitoring equipment was calibrated and operated in accordance with manufactures' recommendations.

3.3 SITE PREPARATION AND CONTROLS

3.3.1 UTILITY LOCATION AND PROTECTION

Active underground utility lines (water, electric, gas, telecommunication, and sewer) and aboveground utility lines (electric) were protected throughout the duration of IRM activities. Prior to commencing work, Dig Safely New York, New York's one-call system, was contacted at least three days before starting work to mark all public utilities at the Site. Additionally, a private utility locator, New York Leak Detection Inc. of Jamesville, New York, was subcontracted to locate and mark all underground utilities within each of the AOC work areas. As necessary, utility and process lines within the work areas were

temporarily removed and replaced. Lines verified by facility personnel to be inactive or no longer used were permanently decommissioned and removed. The approximate locations of utility lines that remain are shown on Sheets 3 through 8 of the Record Drawings.

3.3.2 EROSION AND SEDIMENT CONTROLS

Erosion and sedimentation controls were installed and maintained in accordance with the SWPPP (Section 4.2.2). Temporary controls included filter socks, hay bales, earthen berms, diversions, sandbag sump pits and pump-arounds, storm drain inlet protection, stockpile covers, and stabilized construction entrances. Permanent erosion and sedimentation controls included riprap ditch lining, riprap inlet and outlet protection, rock slope protection, check dams, grass-lined channel (AOC 35K), erosion mat, and permanent seeding. Following the completion of work, most temporary controls were removed after the areas were stabilized and restored. The remainder of the temporary controls will be removed pending establishment of permanent vegetation in the spring of 2020. Locations of the permanent erosion and sedimentation controls are shown on Sheets 3 through 8 of the Record Drawings. Drainage ditch restoration and slope protection details are shown on Sheet 9.

3.3.3 CLEARING

As necessary to facilitate IRM work, trees and brush were removed before excavation work commenced by OSC and their subcontractor, Terry Tree Service of Rochester, New York. No clearing permits were required by the city or town of Ithaca for work conducted entirely on private property. Clearing was performed only to the extent necessary to permit equipment access for remediation of the affected soils in AOCs 28, 29, 30, 31, 32, 35D, 35H, 35K, and 35L. Existing vegetation in non-remediation areas unaffected by haul routes to the remediation areas were protected. Attempts were made to save trees with trunks larger than 4 inches in diameter. Smaller diameter trees and larger diameter trees that could not be saved were chipped and used for mulch during Site restoration activities. The mulch was used as a light-weight fill in the depression against the retaining wall adjacent to AOC 1.

3.3.4 SELECTED DEMOLITION

To facilitate the removal of contaminated soils from AOC 29, twelve concrete tank saddles measuring approximately 6 feet long by 2 feet wide by 4 feet high were removed and size-reduced for offsite disposal. The non-hazardous demolition debris was managed in accordance with Section 3.8. No other significant structures with the exception of building concrete slabs and pavement were demolished during the work.

3.3.5 STAGING AREA CONSTRUCTION

Excavated soil was staged onsite in stockpiles pending characterization and offsite disposal. Stockpile locations included Parking Lots 3, 5, and 6 and indoor locations near Docks 3 and 6. Additionally, imported backfill materials were temporarily stockpiled inside Building 34, in Parking Lots 3, 4, 5, 6, and on the unpaved roadway near the former groundwater treatment building.

Soil from each AOC was stockpiled separately and segregated into 200 to 300 cubic yard (maximum) stockpiles on a 12-mil layer of polyethylene sheeting. Outdoor staging areas used for excavated soil were bermed to prevent precipitation runoff and the stockpiles covered with polyethylene sheeting during precipitation events and at the end of each workday. Polyethylene sheeting was draped over the berms and secured with sandbag weights to prevent precipitation accumulation within the staging areas.

Staging areas were removed following completion of waste transportation and disposal. Used stockpile liners and covers and berm materials were disposed with the final shipment of affected soil from each AOC.

3.3.6 DECONTAMINATION FACILITIES

The Site-specific HASP outlined detailed decontamination procedures for all personnel and equipment, including construction equipment entering and exiting work zones. To reduce the potential of cross contamination between AOCs and

uncontaminated areas, portable boot washes, PPE, and mass removal means were used. Following mass removal within each AOC exclusion zone, equipment was pressure washed in designated on-site decontamination stations located in Docks 1 and 3. WSP and OSC site representatives visually inspected construction equipment prior to its movement to another AOC. Wash water used during on-site decontamination processes was subsequently collected and stored in 275-gallon plastic intermediate bulk containers (IBCs) for off-site disposal or treated by the on-site groundwater treatment system depending upon the COCs present in each area.

3.3.7 DUST CONTROL MEASURES

During IRM activities, excavation surfaces were wetted and additional dust suppressant was applied, as needed, to prevent or reduce fugitive dust emissions resulting from construction activities. Dust suppressant was applied when exposed ground surfaces or roadways were dry and wind or vehicular traffic resulted in visible dust generation or exceedance of CAMP criteria. Dust suppressant applications consisted of applying potable water via water haul truck in a controlled manner and wet sweeping. The effectiveness of the dust suppression measures was evaluated based on the results of the CAMP as discussed in Section 3.2.3.

3.3.8 DRAINAGE DITCH FLOW BYPASS

Drainage ditches are present in portions of AOCs 26, 32, 35K, and 35L where IRM excavation work was performed. The flow in the drainage ditches are intermittent meaning that flow is present only during high water table conditions or precipitation events. To the extent practicable, IRM activities were sequenced to be completed during dry or frozen conditions such as at AOCs 35K and 35L. However, low-flow conditions during remediation of AOC 26 and 32 required temporary damming and flow bypass pumping to prevent surface water intrusion into active IRM excavation areas and contamination of clean water.

In these areas, sandbag dikes were constructed at upstream locations within active work areas. The dikes were lined with 12-mil polyethylene liner to create a sump from which a pump intake was set. Pump hoses and discharge pipe were routed around the active excavation area to a downstream location along the ditch. Bypassed water was transferred using electric submersible pumps for low-flow applications in AOC 26 and the upper portion of AOC 32 and diesel trash pumps for the high-flow application in the lower portion of AOC 32. The outlet end of the bypass pipe was armored with riprap to prevent scouring. Regular inspections were conducted in accordance with the SWPPP to ensure sandbag dikes, bypass equipment, and outlet protection were maintained, especially during heavy precipitation events.

3.3.9 WATER MANAGEMENT

During IRM activities, potential sources of affected water including decontamination fluids, perched or seeped groundwater, and direct precipitation that accumulated within excavations was collected and transferred by way of submersible pumps to applicable holding tanks such as 275-gallon plastic IBCs and for larger areas such as in AOC 32, a 9,000-gallon fractionation tank.

After allowing entrained sediment to settle out in the holding tanks, water from AOCs containing CVOCs and PAHs were transferred to the onsite IRM treatment system for treatment and discharge via the permitted SPDES outfall. Water from AOCs containing metals such as in AOC 27 was used for dust suppression on soil materials designated for offsite disposal. Excess water was characterized for offsite disposal as further detailed in Section 3.8. Solid residuals settled out from the storage containers were solidified and disposed as a solid waste with like materials.

3.3.10 HAUL ROUTES

Designated haul routes were developed and maintained to effectively move equipment across the site and minimize traffic flow issues during excavation and soil transfer to the staging areas and during soil loading from the staging areas for offsite disposal. When leaving the site, loaded trucks followed designated truck routes through the city and town of Ithaca. To satisfy local fire code, excavations occurring along the designated haul routes were scheduled in such a way as to maintain consistent accessibility to all areas of the site from a least one of five public roadway entrances by emergency response vehicles.

Due to unrelated utility work along South Aurora Street, the haul route offsite was temporarily modified to use Turner Place for the transportation of materials stockpiled in Parking Lot 3. In response to a public complaint received by the City of Ithaca on August 15, 2019, Turner Place was discontinued as a haul route and materials were relocated to the staging area in Parking Lot 6. From this location, the materials were transported using South Aurora Street when through access was restored.

3.3.11 SITE SECURITY

To safeguard the health and safety of site workers and the public during remedial activities, access to work areas was restricted to the extent possible. The facility is enclosed by a chain link fence, parts of which were temporarily removed during the IRM work in AOC 32. Entry to the Site was controlled through a manned guard house and lockable gates. During the duration of the project, personnel entering the Site were required to sign in at the beginning of the work shift and sign out when leaving at the end of the shift.

Exclusion zones and potential hazards such as open excavations and stockpiles were clearly marked using temporary construction fencing and barricades to protect site workers, visitors, and security personnel while making their daily rounds. Except during active remediation in AOCs 1 and 34, access roads were kept clear to allow access by security personnel. Access road closures for IRM work were communicated in advance with security guards and plant personnel. Open excavations in the access roads were protected by a combination of physical barriers, caution tape, orange safety fence, and warning signs.

3.3.12 SURVEYING

During soil remedial activities, land surveying was performed as required by a New York State-licensed surveyor, Richard M. Rybinski, L.S., under contract to OSC. Land surveys were performed to determine pre- and post-excavation elevations for quantity estimation, limits of excavation, and sample locations. Survey data was used to develop the Record Drawings (Sheets 3 through 8). In addition, the survey data will be used as the basis for documenting the limits and depths of residual contaminated soils to be managed as part of the Site Management Plan (SMP).

3.4 ADDITIONAL INVESTIGATIONS

This section describes the additional sampling and investigation activities performed as a result of unexpected conditions encountered during implementation of the work plan. These activities included pre-excavation delineation sampling (soil borings, test pits, material characterization), sampling to determine potential sources, alternative sampling approaches for compliance samples, dye tracer studies, and other sampling not addressed in the IRM Work Plan. The scopes of these additional investigations were discussed with and approved by the NYSDEC and NYSDOH as necessary before implementation. The activities in the following sections may not have occurred in the order presented.

3.4.1 PRE-EXCAVATION DELINEATION SAMPLING

In April 2019 a supplemental soil investigation was conducted to facilitate the completion of the excavation and minimize contractor downtime associated with the iterative excavation and sampling process. A total of 48 borings were installed using a Geoprobe® direct-push drill rig operated by Parratt-Wolff, Inc. of Syracuse, New York. Soil borings were installed and samples collected in AOCs 32 (lower section), 34, 35A, and 35H. Sample collection procedures followed those used during implementation of the Phase II Supplemental Remedial Investigation and WSP SOPs. Similar to the procedures described in the IRM Work Plan, the results of the pre-excavation delineation samples that met the applicable SCOs were used as final confirmation samples.

At each drilling location, continuous soil cores were collected from the ground surface to the termination depth as determined by an onsite WSP geologist. Upon recovery, the single-use acetate liner was removed from the sampler and provided to the geologist for classification, headspace screening, and the collection of samples for laboratory analysis. All drilling and sampling activities were conducted with clean equipment to prevent potential cross-contamination. Equipment was cleaned before each use, between borings, and at completion of the job. Samplers were decontaminated before each use. After

completing the drilling activities at each location, the drilling equipment was cleaned with a non-phosphate soap and tap water wash, followed by a tap water rinse. No mineral-based oil or grease was used on drilling or sampling equipment that was placed in the borehole.

All soil borings collected in AOCs 32 and AOC 35H were advanced to 2 feet bgs or bedrock, whichever was shallower. In AOC 32 composite samples from 0 to 2 feet bgs were collected at each location for analysis of PAHs, PCBs, arsenic, barium, lead, and mercury. In AOC 35H, composite samples from 0 to 2 feet bgs were collected at each location for analysis of PAHs. Soil borings in AOC 35A were advanced from 0 to up to 8 feet bgs to determine the extent of ash-like material. Composite samples were collected in AOC 35A from 0 to 2 feet bgs and analyzed for arsenic. Soil borings were collected in AOC 34 from ground surface to bedrock refusal. Samples in AOC 34 were collected and analyzed for CVOC and PAHs; CVOC samples were grab samples from the interval exhibiting the highest PID measurement, and PAH samples were a composite of the 0 to 2-foot interval. For details on all samples collected during the pre-excavation delineation sampling for AOCs 32, 34, 35A, and 35H, refer to Section 2.3 above.

Laboratory analyses for pre-excavation delineation sampling were conducted by Pace Analytical Services. The analytical data reports are provided in Appendix B and the results incorporated into the individual AOC data tables. Soil boring logs are provided in Appendix D and sample locations shown on the applicable Sheets of the Record Drawings. Excavation decisions related to these additional delineation results are provided in the individual AOC summaries in Section 2.3.

3.4.2 AOC 32 (UPPER PORTION) SOIL BORINGS AND COMPOSITE DOCUMENTATION SAMPLES

After review of the data from the initial excavation and approval by NYSDEC, a soil boring plan was implemented to delineate COCs present in the drainage ditch soil in the upgradient portion of AOC 32. On December 3, 2018, additional delineation samples using a 2-inch hand auger were collected at a frequency of every 15 feet along centerline of the ditch from the edge of the existing eastern extent of excavation to an upgradient location beyond the discharge location of SRI-SW-01. The soil boring samples were submitted to Pace Analytical for PAHs, PCBs, arsenic, barium, lead, and mercury. Based on the results, the drainage ditch soil excavation was extended upgradient to the location of SRI-SW-01. The drainage ditch soil sample upgradient of SRI-SW-01 slightly exceeded PAH SCOs, but was accepted by NYSDEC to remain in place.

After additional excavation of drainage ditch soil to the maximum extent due to slope stability, final documentation samples were collected. At the suggestion of the NYSDEC, the final documentation samples along the excavated slopes were collected as composite samples. Eight composite samples, each consisting of five soil aliquots of approximately equal mass from areas measuring 50 feet by 10 feet, along the slopes were collected and analyzed by Pace Analytical for PAHs, PCBs, arsenic, barium, lead, and mercury. All 8 samples exceeded RR SCO criteria for one or more COCs including arsenic, PCBs, and several individual PAHs.

The analytical data reports are provided in Appendix B and the results incorporated into the individual AOC data tables. Soil boring logs are provided in Appendix D and the sample locations shown on Sheet 5 of the Record Drawings.

3.4.3 AOC 35G TEST PITS

While excavating soil from AOC 35G on November 19, 2018, oil was encountered in the bedrock at the base of the slope near the drainage ditch (as discussed in Section 2.3.10). To prevent an oil release to the ditch, WSP directed OSC to construct a berm above the ditch and place a series of sorbent booms and pads along the base of the berm to absorb oil seeping from the bedrock interface. The entire AOC 35G excavation area was then covered with 12-mil polyethylene sheeting to prevent snow and storm water runoff from entering the affected area. WSP collected and submitted a sample of the oily soil (S-1-BT) to Pace Analytical for analysis of PAHs, CVOCs, and PCBs. The sample contained cis-1,2-dichloroethene and vinyl chloride at concentrations slightly above PoG SCOs, four PAHs at concentrations slightly above RR SCOs, and PCBs at a concentration of 14.6 mg/kg. A final documentation sample (DS-3-BT) was collected after removal of the oily material and analyzed for PCBs and PAHs. The sample did not contain PCBs or PAHs above RR SCOs.

After review of the data and approval by NYSDEC, a test pit plan was implemented to determine the extent of oil discharge along the bedrock bedding plane. On December 18, 2018, five 3-foot by 3-foot test pits (TP-1 through TP-5; Sheet 5 of the Record Drawings) were excavated into the hillside at a frequency of every 25 to 30 feet at the same elevation where the oil was encountered within the AOC 35G bedrock bedding plane. No oil was observed in any of the test pits upon initial

excavation. The test pits were located within or near the limits of AOC 32. Based on the absence of oil and the locations of the test pits along the upslope perimeter of AOC 32 (lower), composite samples were collected from 0 to 2 feet and submitted to Pace Analytical for PAHs, PCBs, arsenic, barium, lead, and mercury analyses. The soil sample from TP-1 contained arsenic, lead, and several individual PAHs above RR SCOs and the sample from TP-2 contained mercury, PCBs, and benzo(b)fluoranthene above RR SCOs. Soil in the vicinity of TP-1 and TP-2 were subsequently excavated to bedrock. Soil samples from TP-3, TP-4, and TP-5 did not exceed RR SCOs. Test pits were left open for over 24 hours and then re-inspected for oil seepage. As no oil seepage was observed, test pits were backfilled with the excavated soil.

The analytical data reports are provided in Appendix B. The material characterization results for sample S-1-BT are included with the AOC 35G data in Table 13. The test pits results, three of which were subsequently used as final confirmation samples in AOC 32, are included with the AOC 32 data in Table 8. Test pit locations are shown on Sheet 5 of the Record Drawings.

3.4.4 AOC 26 DYE TRACER TESTING

During excavation in the Building 24 portion of AOC 26, inactive utilities including water, electric, and sewer were encountered beneath the concrete slab (as stated in Section 2.3.2). Following approval from facility personnel, a 1/2-inch conduit, a 6-inch cast iron pipe which appeared to connect to a wash basin overflow connection at a nearby column, and a 4-inch clay pipe which appeared connected to a subsurface concrete-lined sump were removed and plugged at the northern extent of the excavation. Additionally, a 4-inch hexagonal clay pipe, presumed to be a roof drain line, running south to north through the corner of the excavation was damaged during soil removal activities and began releasing water into the excavation at a rate of around 2 gallons per minute (gpm). As attempts were made to repair the pipe, WSP observed little to no flow from the Building 24 seep located approximately 60 feet away. Once repairs were completed, flow from the Building 24 seep resumed. Based on these observations, WSP conducted field testing to assess the potential connection between this drain line and the Building 24 seep at the lowest floor level. The relative locations of the pipes in Building 24 are shown on Sheet 3 of the Record Drawings.

On December 17, 2018, dye tracer testing was performed on the seep and the AOC 26 hexagonal pipe to better determine the connection between the two. An initial baseline flow rate of 2 gpm was observed at the seep prior to beginning the test. When the upgradient portion of the hexagonal pipe was plugged, a new measurement of 0.25 gpm was recorded. With the pipe still plugged upgradient to block the flow of water, approximately 5 gallons of tracer dye mixed with potable water was introduced quickly. After a duration of 13 minutes, diluted dye was observed at the seep discharge. The study concluded that while evidence of a hydraulic connection is present, based on the length of time for the dye to travel 60 feet horizontally and 12 feet vertically, there is no solid pipe connection from the clay pipe to the seep.

3.4.5 AOC 28 METALS SAMPLING

AOC 28 was initially excavated to address CVOC exceedances of PoG SCOs as described in Section 2.3.4. However, on October 26, 2018, a change in fill materials from a brown silt to a mixture of red, black, brown, yellow, and white slag-like materials mixed with silt was observed in the lower portion of the excavation from 261 feet amsl to 597 feet amsl. On October 29, 2018, at the request of the NYSDEC, WSP collected and submitted four samples of the material for PAHs, PCBs, cyanide, and metals (RCRA 8) analyses. Exceedances of commercial SCOs for arsenic (17.1 and 29.4 mg/kg), barium (1,900 mg/kg), and cyanide (62.5 mg/kg) were observed in the materials samples.

Laboratory analyses for AOC 28 metals and cyanide sampling were conducted by SGS North America Inc. The analytical data reports are provided in Appendix B and the data included with the AOC 28 data in Table 4. Sample locations are shown on Sheet 7 of the Record Drawings. Based on the results, additional excavation and sampling was conducted as described in Section 2.3.4.

3.4.6 BUILDING 17 CYANIDE SAMPLING

On August 6, 2019, two soil borings were installed within Building 17 in response to a request by NYSDEC to evaluate and identify if a potential source existed for cyanide found in sample DS-37-SW along the upslope perimeter of AOC 32. This sample contained 105 mg/kg cyanide (Sheet 5 of the Record Drawings). Using historical building drawings, soil borings were installed at two locations (BD17-SB-1 and BD17-SB-2) east of a 31-foot long 14-foot wide pit of unknown depth

(identified as a cistern on a 1905 historical drawing) located beneath the floor of Building 17. Soil samples were collected every 2 feet starting at the first occurrence of soil (i.e., just below any gravel base material), extending to the bedrock surface. Three samples were collected from boring SB-1: the 3 to 4-foot interval was analyzed for cyanide and the 10 to 12 and 14 to 16-foot intervals were analyzed for cyanide, PAHs, and PCBs. One sample was collected from boring SB-2 at the 8- to 10-foot interval and analyzed for cyanide, PAHs, and PCBs. None of the samples exceeded RR SCOs. The analytical data report is provided in Appendix B and the data included in Table 8. Soil boring logs are provided in Appendix D.

3.4.7 AOC 32 SEEP SAMPLING

On August 6, 2019, during the excavation below the Outfall 001 shed and steel skimmer/weir box, three vertical bedrock fractures ranging from 0.25-0.5 inches wide on the upgradient sidewall were uncovered as described in Section 2.3.8. These bedrock fractures had been covered with compacted silt and stacked railroad ties which were acting as a footer supporting the weir box and wooden shed. When the ties were removed, groundwater from the fractures released into the bottom of the Open Ditch 2 excavation. No water was discharged from Outfall 001. The water contained traces of oily material both emulsified and immiscible and had a PID reading of 18 ppm. Sorbent pads and booms were deployed in the sump to absorb the oil. Over time, the seep discharges stabilized to approximately 0.5 gpm, but the oil discharge did not persist beyond the initial surge period.

Three discrete seep samples were collected from each seep location and analyzed for VOCs (full list), barium, and cyanide by Pace Analytical. An additional sample of the oily material was collected and analyzed for VOCs. Three CVOCs (cis-1,2-dichloroethene, trichloroethene, and vinyl chloride) exceeded groundwater ambient water quality standards; no VOCs were detected in the oily material. The sampling was conducted during a dry period to preclude any influence from storm water or runoff. The analytical data report is provided in Appendix B and the data included in Table 18 (water) and Table 19 (product).

Based on the results, water from seeps was collected in the sump created by the excavation below the weir box. Water was transferred to a fractionation tank for temporary storage. After allowing solids to settle out, the water was pumped to the IRM building for treatment before discharge to Outfall 001A. Settled solids in the tanks were solidified and disposed with the AOC 32 soils.

The seeps will be addressed as part of the remedy described in the Feasibility Study. As a temporary measure, the sump pit was backfilled with gravel and the cleaned skimmer/weir box replaced at its original grade (above the seep elevation). Seep water that discharges to the gravel-filled sump will be allowed to infiltrate the ground surface to be collected by the IRM DPE system. Water that does not infiltrate is treated through activated carbon filter socks that were deployed at the base of each seep location. The carbon socks are replaced periodically pending design and installation of a seep collection system as part of the Feasibility Study.

3.5 REMOVAL ACTIONS

This section describes the removal actions performed in each of the AOCs and sanitary sewer areas including pavement removal, soil and bedrock excavation, sump/manhole contents removal, field screening, and material handling.

3.5.1 PAVEMENT REMOVAL

Asphalt pavements and concrete slabs in AOCs 1, 26, 27, 34, and 35C were removed in advance of soil excavation. Concrete slabs (AOCs 26 interior, 27, and 35C) were sawcut to produce smooth edges, broken up with a hydraulic hammer, and removed with conventional excavation equipment and transferred to the staging areas. Asphalt pavements (AOCs 26 exterior and 34) were sawcut to produce smooth edges after completion of the IRM excavation. Additional asphalt was removed in AOC 32 where total PAHs were found at a concentration greater than 500 mg/kg. Subbase materials adhering to the concrete or asphalt were managed with the pavements. Other subbase materials were managed with the excavated soil for each AOC.

3.5.2 SOIL EXCAVATION, SCREENING, SEGREGATION, AND STOCKPILING

During the excavation in AOCs containing CVOCs, soils were field screened using the zero headspace method with a calibrated PID. Excavated soil with similar PID readings was stockpiled together to ensure that soil that may potentially exhibit a hazardous waste characteristic was properly managed. Similar screening in AOCs with soil affected by heavy metals was performed using a calibrated XRF meter to identify materials that may exceed direct contact SCOs during excavation. Additionally, PID and XRF measurements, along with conventional field observations such as visual staining or strong olfactory responses, were used to screen potential soil confirmation and documentation sample locations.

Excavated soil was loaded to dump trucks and transferred to one of several soil staging areas described in Section 3.3.5. Excavation and hauling equipment were decontaminated between uses at different AOCs.

3.5.3 SANITARY SEWERS, SUMPS, AND MANHOLES

Semi-solid and liquid residuals were removed from various test pits, sanitary sewers, manholes, process pits, sumps, and open excavations during the IRM activities. Materials too wet to excavate and stockpile were removed by vacuum extraction methods and transferred to drums or IBC totes. Containerized wastes were temporarily stored onsite for subsequent management as described in Section 3.8.

3.6 COMPLIANCE SAMPLING

Compliance samples consisted of both confirmation and documentation samples and were collected and analyzed to assess IRM performance against the RAOs after excavation in each AOC. Laboratory analyses for compliance sampling were conducted by ELAP-certified laboratories, SGS North America Inc. and Pace Analytical Services. The analytical data are provided for each AOC where compliance sampling was required in Tables 1 through 16. Sample locations are shown on Sheets 3 through 8 of the Record Drawings. The analytical data reports are provided in Appendix B. The tables and Record Drawings include the results of other samples collected during execution of the work including additional delineation samples, material characterization samples, test pit samples, water samples, and product samples as previously discussed.

The tables use conditional formats to denote sample results that exceed applicable SCOs – boxed values exceed direct contact SCOs (RR, commercial, or industrial) and values in bold italics exceed PoG SCOs. Similarly, Sheets 3 through 8 of the Record Drawings utilize different symbols for the types of samples (soil boring, test pit, additional delineation, confirmation, and documentation) with different color coding for comparison against SCOs. Samples shown in blue indicates no exceedances of SCO criteria and samples shown in orange indicate that the final results exceed SCO criteria. Sample locations shown in gray indicate that the soil represented by that sample was excavated.

Duplicate samples were collected at a rate of one per twenty samples in accordance with WSP SOPs. Other quality assurance and quality control testing was performed by the laboratories in accordance with the test methods and laboratory protocol. Due to the timeframes for sampling, analyses turnaround, and field decisions for additional excavation and backfilling, the NYSDEC concurred with the decision that Data Usability Summary Reports (DUSRs) would not be prepared for the compliance sampling.

3.6.1 CONFIRMATION SAMPLING

In accordance with the approved IRM Work Plan, confirmation samples were required to determine whether SCOs were achieved. Where confirmation sample results exceeded applicable SCOs, additional excavation was performed followed by additional sampling. Confirmation samples were collected at average rates of one sample for every 900 square feet from the excavation bottom and one sample for every 30 linear feet of sidewall. Confirmation sample locations along the excavation sidewalls were biased toward one or more of the following: location and depth of the soil interval exhibiting the highest COC concentrations during previous sampling (i.e., Phase II SRI), the location and depth exhibiting the highest field screening measurements (PID or XRF), or the locations and depth of the highest expected concentration based on visual or olfactory observations (i.e., staining or odors). Where recorded, PID and XRF measurements are included in the data tables. No confirmation samples were collected where bedrock was encountered.

Certain samples were not originally collected as confirmation samples but were used to confirm excavation endpoints. These samples included samples collected from the Phase II SRI soil borings, pre-excavation additional delineation sampling, and soil borings and test pits installed during the IRM activities. Historical samples used as final confirmation samples are shown in blue on the Sheets of the Record Drawings and the data are included in their respective tables.

Confirmation sample results and locations are shown on the Tables and Sheets of the Record Drawings for each AOC. Certain final confirmation sample results slightly exceeded applicable SCOs but were accepted to remain in place by the NYSDEC. These locations are shown in orange on the drawing sheets and annotated as being accepted as final samples.

3.6.2 DOCUMENTATION SAMPLING

In accordance with the approved IRM Work Plan, documentation samples were collected to document the soil concentrations achieved by the remedy. Documentation samples were collected along the excavation and bottoms at the same rates as confirmation samples; however, no bottom documentation samples were collected where soil was excavated to bedrock. Documentation samples were specified in areas where additional excavation was not required to meet direct contact SCOs (e.g., locations deeper than 2 feet or below pavements or buildings) or where excavation was not practicable due to the presence of steep slopes or limited access locations. In general, no additional excavation was performed based on the results of documentation sampling. One notable exception was for samples with total PAH concentrations greater than 500 mg/kg, which occurred in nine samples in four AOCs (AOCs 29, 32, 34, and 35H). Additional excavation was performed at these locations.

Documentation sample results and locations are shown on the tables and sheets of the Record Drawings for each AOC. The documentation sample results will become the basis for contamination remaining onsite to be managed by the SMP. The following section summarizes the IRMs completed to protect future users of the site from the contamination remaining onsite.

3.7 CONTAMINATION REMAINING ONSITE

In accordance with Section 5.8(b) of DER-10, this section describes the contamination remaining on site at the completion of the IRM work and the measures taken to protect future users of the site. Tables 1 through 17 and Sheets 3 through 8 of the Record Drawings summarize the results of all soil samples collected at the site after completion of the IRM. With few exceptions, samples labeled as “DS” are the documentation sample results exceeding applicable SCOs that represent the contamination that remains onsite. Since contaminated soil and groundwater/soil vapor remains beneath the site after completion of the IRM, institutional controls and engineering controls will be necessary to protect future users of the Site. The engineering controls are described in the following sections. Long-term management of the institutional and engineering controls and residual contamination will be performed under a SMP to be prepared for the Site. Additional information regarding institutional controls is provided in Section 3.11.

3.7.1 SOIL CAP – AOC 1

After implementation of the IRM in AOC 1, soils from a depth of 3 to 18 feet bgs (groundwater ranges from 10 to 15 feet bgs) in AOC 1 contain CVOCs above PoG SCOs (as identified by compliance sampling and the Phase II SRI). Placement of an engineering control in the form of a cap will limit infiltration and minimize or eliminate leaching and migration of soil contaminants to groundwater over the entire extent of the AOC 1 excavation area.

After excavation and compliance sampling in AOC 1, a high-visibility demarcation geotextile barrier, GEOTEX® 401 manufactured by Propex Geosolutions, was installed across the base of the excavation followed by backfilling with imported fill, NYSDOT Item 4 gravel, that was placed and compacted to a depth of 1 foot bgs. A cap was installed consisting of a GCL, BENTOMAT ST® manufactured by Cetco®, 6 inches of gravel subbase, and a 6-inch thick layer of asphalt pavement. GCL consists of a sodium bentonite layer between one layer of woven and one layer of unwoven geotextile that are needle-punched together to form a composite liner that is resistant to high shear forces. When saturated, the GCL is relatively impermeable with a permeability of 5×10^{-9} centimeters per second. The asphalt pavement consisted of several layers – a 4-inch thick base course placed above the gravel subbase, a tack coat and geotextile interlay, and a 2-inch thick wearing course. The geotextile interlay, Petromat® 4598 manufactured by Propex Geosolutions, is expected to reduce future maintenance by

minimizing crack and pothole propagation and extend the service life of the pavement. The AOC 1 cap location is shown on Sheet 6 and cap construction details are shown on Sheet 9 of the Record Drawings.

3.7.2 SOIL COVER

A soil cover was constructed in AOCs to address exceedances of direct contact SCOs. A 2-foot thick soil cover was constructed in AOCs designated for future restricted residential use (AOCs 26, 27, 31, 32, 34, 35A, 35C, 35D, 35G, 35H, and 35K). A 1-foot thick soil cover was constructed in AOCs designated for future commercial use (AOCs 28 and 29) and industrial use (AOC 30).

Before placing the cover, a high-visibility demarcation geotextile barrier, GEOTEX® 401 manufactured by Propex Geosolutions, was installed across the base of the excavation where bedrock was not encountered. Imported backfill, NYSDOT Item 4 gravel, was then placed to a depth of 4 to 6 inches below the original ground surface. Except for AOC 29, imported topsoil was then placed to the original surface to complete the soil cover. No topsoil was placed in AOC 29 based on plans for redevelopment as a paved parking lot.

3.8 WASTE MANAGEMENT

Several types of wastes including soil, asphalt, concrete, bedrock, railroad ties, and contents of manholes, pits, and sumps were generated for disposal or recycling during execution of the IRM Work Plan. Removed pavements, concrete, and excavated soil from each AOC were temporarily stockpiled in one of several staging areas onsite. After completion of excavation and compliance sampling, stockpiled soil was characterized for waste classification (non-hazardous or hazardous waste) then transported offsite for proper disposal. No soil was added to the soil piles after characterization.

As described in Section 2.3.1, soil excavated from AOC 1 was determined to be a listed hazardous waste under waste code F001 based on detections of solvents used in degreasing operations historically conducted in this part of the Site. Before beginning excavation, the NYSDEC approved a Contained-In Determination request to allow a portion of the AOC 1 excavated soil to be managed as a non-hazardous waste.

Excavated base materials and bedrock with salt crystallization from AOC 27 exhibited a hazardous waste characteristic for barium. The excavated materials including the concrete removed from this area was disposed as a hazardous waste under waste code D005.

All other waste characterization samples for soils from the other AOCs did not exhibit a hazardous waste characteristic and were disposed as a non-hazardous waste. Materials removed from sanitary sewers, manholes, sumps, and test pits also did not exhibit a hazardous waste characteristic and were disposed offsite as a non-hazardous waste. Railroad ties encountered in AOCs 26, 32, 35C, 35K, and 35L were disposed as a non-hazardous waste.

Concrete with potentially contaminated base materials adhered to the bottom surface were disposed with the soil based on the soil characterization (AOCs 26 interior, 27, 29, 35C, and the sanitary sewers and test pits). Piles of asphalt debris removed from AOCs 30 and 35H were disposed with the soil from those AOCs. Intact asphalt pavements without adhered soil were recycled offsite (AOCs 1, 26 exterior, 32, and 34).

Water generated in AOCs containing CVOCs or PAHs was collected and treated through the groundwater IRM system. Water generated in AOCs containing metals or cyanide were used as dust suppression on soils designated for offsite disposal.

The quantities of wastes transported offsite for disposal are summarized by waste type in the summary tables in the respective waste disposal appendices.

3.8.1 WASTE CHARACTERIZATION SAMPLING

Samples of waste materials designated for offsite disposal were collected in accordance with SOPs and analyzed for hazardous waste characteristics including toxicity, reactivity, corrosivity, and ignitability. Additional testing (e.g., PCBs, total metals, etc.) required by the waste disposal facilities was performed as necessary for acceptance of waste profiles. Laboratory analyses for waste characterization were conducted by Adirondack Environmental Services Inc. and Pace Analytical Services. The waste characterization analytical data reports are provided in Appendix G. Based on the

characterization results, the wastes were profiled for offsite disposal as a hazardous or non-hazardous waste. Generator knowledge was used in place of laboratory testing for characterization of concrete and asphalt.

3.8.2 NON-HAZARDOUS WASTES

Non-hazardous wastes were generated from AOCs 1 (portion subject to contained in determination), 26, 28, 29, 30, 31, 32, 34, 35A, 35C, 35D, 35G, 35H, and 35K and the sanitary sewers and test pits. Non-hazardous wastes were profiled for disposal at Seneca Meadows Landfill in Waterloo, New York, under waste management profile No. 19-002; Ontario County Landfill in Stanley, New York, under waste management profile Nos. 21434, 21435, 21437, 21439, and 21798; and Chemung County Landfill in Lowman, New York, under waste management profile No. 21706. Non-hazardous waste profiles are provided in Appendix H.

Between October 17, 2018, and September 11, 2019, a total of 8,513.25 tons of soil and concrete was loaded to dump trucks and transported offsite for disposal as non-hazardous wastes at the facilities listed above. Non-hazardous wastes were transported by TJ Allen Bulk Services Inc. and Longhorn Trucking Company Inc. A non-hazardous waste manifest was completed for each shipment and signed by the transporter and WSP on behalf of Emersub 15, LLC.

Non-hazardous waste shipping manifests from Seneca Meadows; Ontario County Landfill; and Chemung County Landfill are provided in Appendix I. A summary table in Appendix I shows the total quantities from each AOC removed from the Site, the transporter's name, profile number, manifest load number, and the disposal locations.

3.8.3 HAZARDOUS WASTES

Hazardous wastes were generated from AOCs 1 and 27 and were managed under EPT's Hazardous Waste Generator Identification Number NYD002228625. Listed hazardous waste soil from AOC 1 was profiled for direct disposal at the Wayne Disposal, Inc. Site 2 Landfill in Belleville, Michigan, under waste management profile No. L180094WDI. Between October 17, 2018, and January 4, 2019, a total of 97.55 tons of F001 hazardous waste was transported by Page E.T.C. Inc. for disposal. A hazardous waste manifest was completed for each shipment of F001 waste and signed by the transporter, WSP on behalf of Emersub 15, LLC, and Wayne Disposal, Inc. as an acknowledgment of receipt. Characteristic hazardous waste soil and concrete from AOC 27 was profiled for treatment and disposal at Michigan Disposal Waste Treatment Plant in Belleville, Michigan, under waste management profile Nos. H190009MDI (concrete), H10010MDI (soil/bedrock), and H190057MDI (mixed loads). Between December 10, 2018, and August 7, 2019, a total of 84.03 tons of D005 concrete, 160.53 tons of D005 soil/bedrock, and 13.43 tons of mixed D005 soil and concrete was transported by Page E.T.C. Inc. for treatment and disposal. A hazardous waste manifest was completed for each shipment of D005 waste and signed by the transporter, WSP on behalf of Emersub 15, LLC, and Michigan Disposal as an acknowledgment of receipt. Hazardous waste profiles are provided in Appendix J.

Hazardous waste shipping manifests and certificates of disposal from Wayne Disposal, Inc. and Michigan Disposal Waste Treatment Plant are provided in Appendix K. A summary table in Appendix K shows the total quantities of hazardous wastes removed from the Site, the transporter's name, profile number, manifest number, load number, and the disposal locations.

3.8.4 RECYCLABLE MATERIALS

Asphalt pavements from AOCs 1, 32, and 34 were stockpiled separately from the respective soils. Between August 2, 2019, and August 7, 2019, 16 loads comprising approximately 240 tons of removed asphalt was transported offsite for recycling by Riccelli Trucking Inc. of North Syracuse to the Syracuse Sand & Gravel LLC - Brickyard Pit facility in Van Buren, New York. Bills of lading were prepared for each load and are provided in Appendix L.

3.8.5 OTHER NON-HAZARDOUS WASTES

Wastes were generated from cleanout of manholes and sumps encountered during the IRM work. Materials were transferred to drums or IBC totes and temporary stored onsite pending final accumulation and characterization. The containerized wastes were sampled individually for characterization and determined to be non-hazardous. The drum of oil/water mixture

was disposed of at the Clean Harbors facility in El Dorado, Arkansas. The manhole water and solids residuals were disposed as a non-hazardous waste by Spring Grove Resource Recovery Inc. in Cincinnati, Ohio. Waste characterization data, waste profiles, and transportation and disposal information is provided in Appendix M.

3.9 SITE RESTORATION

Following completion of excavation and compliance sampling, the AOCs were restored to their approximate original grade using imported fill materials. Except as noted below, final surfaces (e.g., topsoil/grass, gravel, or pavement) were replaced to their original condition. Locations of fill placement and restoration details are shown on the sheets of the Record Drawings.

3.9.1 IMPORTED MATERIALS

Several types of fill materials were imported for use during site restoration activities. Approximately 5,000 cubic yards of NYSDOT 304.03 Type 2 Subbase, commonly referred to as "Item 4" gravel was used as general backfill and to serve as the soil cover in AOCs remediated to address direct contact SCOs. The Item 4 gravel was imported to the Site by Sultana Sand & Stone, Inc. from the Willseyville Mine in Candor, New York. NYSDOT No. 2 stone was imported for use as stabilized construction entrances, erosion protection on steep slopes, and surface restorations for excavations conducted inside buildings where concrete was not replaced (AOCs 27 and 35C and the sanitary sewer removal and test pit locations). NYSDOT 620.03 riprap was imported for use as drainage ditch lining. The riprap and No. 2 stone, totaling approximately 250 tons, were imported by Cayuga Crushed Stone Inc. from the Hanson Aggregates – Skaneateles Quarry in Skaneateles, New York. AOC 27, the sewer line excavation, and selected sanitary sewer test pits were backfilled with a total of approximately 144 cubic yards of 100-psi mix of CDF before placing the NYSDOT No. 2 stone. The CDF mix design is provided in Appendix N. Lastly, approximately 1,000 cubic yards of topsoil were imported for use as the vegetative medium in AOCs restored with grass. The topsoil was imported to the Site by Sultana Sand & Stone, Inc. from the Willseyville Mine.

In accordance with DER-10 Section 5.4(e)(5), and in consultation with and approval by the NYSDEC, virgin gravel/stone was approved for import without chemical testing since it contains less than 10 percent by weight passing a size 80 sieve. The Item 4 gravel, No. 2 stone, and riprap met this requirement and did not require chemical testing. Imported topsoil was sampled in accordance with DER-10 Section 5.4(e)(10). Discrete samples for VOCs and composite samples for SVOCs, metals (including hexavalent chromium), PCBs, and pesticides were collected at the rates prescribed in Task 5.4(e)10 of DER-10. No exceedances of residential use criteria were detected in the samples.

Requests to Import/Reuse Fill or Soil forms for the Item 4, No. 2 stone, riprap, and topsoil and associated laboratory reports and NYSDEC approvals are provided in Appendix O.

3.9.2 BACKFILLING AND COMPACTION

After NYSDEC approval of the excavation and compliance sampling activities in each AOC, the excavations were prepared for backfilling and restoration. Any pooled water in the excavations was removed or allowed to infiltrate. A high-visibility geotextile, GEOTEX® 401 manufactured by Propex Geosolutions, was installed as a demarcation barrier across the bottom of the excavations where bedrock was not encountered.

Each AOC was backfilled to its designated depth based on the applicable SCOs and surface restoration specifications. Item 4 gravel was placed in 12-inch loose lifts and compacted with a minimum of three passes with compaction equipment. In AOCs where pavement was to be replaced (AOCs 1, 26, and 34), in-place field density testing was performed by SJB Services Inc. of Cortland, New York. Compaction testing was performed at a minimum rate of 1 test per 1,000 square feet per lift. Fill beneath asphalt was compacted to a minimum of 95 percent of the maximum dry density (145.90 pounds per cubic foot) as determined by a standard proctor test. Moisture content was required to be within 3 percent of the optimum (4.3 percent) as determined by the proctor test. Lifts represented by failed compaction test were reworked for moisture adjustment, recompacted, and retested. Compaction test reports are provided in Appendix P.

3.9.3 SURFACE RESTORATION

After backfilling, the final surfaces were restored to match pre-existing conditions except as noted below. Final restored surfaces include pavements (concrete or asphalt), topsoil and grass, riprap, and gravel. Surface restoration details are provided in the following sections.

CONCRETE AND ASPHALT

Asphalt and concrete in paved AOCs were replaced to match the pre-existing conditions. Concrete was replaced in the interior portion of AOC 26. Asphalt was replaced in AOCs 1, 26 (exterior), 32 (small patch) and 34. For asphalt paved areas a 6-inch layer of subbase was placed and compacted. Asphalt restoration consisted of 4 inches of base course and 2 inches of wearing course separated by a tack coat and geotextile interlay (Propex PETROMAT® 4598).

The AOC 26 concrete inside Building 24 was replaced to match the existing reinforcement and average slab thickness. Reinforcement dowels consisting of 12-inch long, #4 rebar were placed on 12-inch centers, drilled and epoxied 6 inches into the existing 5-inch thick slab. A concrete mix capable of meeting a 3,500-psi compressive strength after 28 days of curing was placed to restore the 5-inch slab. The concrete mix design is provided in Appendix N.

TOPSOIL AND GRASS

In AOCs where vegetation previously existed (with the exception of AOC 29 noted above), a 4- to 6-inch layer of topsoil was placed to restore the pre-IRM soil grade. Agronomy testing of the topsoil was performed to assure the topsoil could sustain growth of native vegetation. The final topsoil surface was fertilized, seeded with a grass mix consisting of perennial ryegrass, annual ryegrass, Kentucky bluegrass, and creeping red fescue at a seed rate of 7 to 8 pounds per 1,000 square feet. Seeded areas were also mulched with hay for soil stabilization. A typical soil cover restoration detail is provided on Sheet 9 of the Record Drawings. Agronomy test reports and seeding rate recommendations are provided in Appendix Q. Erosion controls will remain in place until the permanent vegetation is fully established.

DRAINAGE DITCH RESTORATION

Drainage ditch restoration was performed in AOCs 26, 32 (upper and lower), 35G, and 35K. During backfilling, Item 4 gravel was placed to within 6 inches of the drainage ditch invert to form a trapezoidal or V-shaped channel. A woven geotextile was placed above the fill and secured with sod staples. Above the geotextile, a 6- to 12-inch layer of NYSDOT 620.03 riprap was placed to reduce water velocity and prevent erosion from storm water runoff. As required, existing drainage features such as weir boxes, skimmers, and culverts were temporarily removed during excavation, cleaned, and replaced during restoration. The wooden shed that housed Outfall 001 at the end of Open Ditch 2 was not replaced. NYSDOT No. 2 stone was placed along the steep slopes on the upslope side of the AOC 32 and 35G drainage ditch for additional erosion control. A typical drainage ditch restoration and upslope erosion protection detail is provided on Sheet 9 of the Record Drawings.

The upper portion of AOC 32 was similarly restored with Item 4 gravel, geotextile, and riprap. Riprap erosion protection was placed at the outlet from the parking lot catch basins in a manner to prevent scouring of the back slope of the drainage ditch. Following upper ditch restoration, the disturbed area that was cleared to provide access was regraded, supplemented with topsoil, and reseeded.

The historically dry drainage swale through a portion of AOC 35K was restored as a grass-lined drainage swale to match the existing lining in that portion of the ditch.

GRAVEL COVER

AOCs 27 and 35C inside buildings, AOC 29, sanitary sewer test pits, and sanitary sewer removal areas were restored with a gravel cover. AOC 27, the sanitary sewer test pits, and sanitary sewer removal area were restored with a 6-inch layer of No. 2 stone. AOC 35C inside Building 11A was backfilled entirely with Item 4 gravel flush with the top of the surrounding floor surface.

AOC 29 was originally planned to have topsoil and grass; however, at the request of L Enterprises, the final surface was left as is after placement of Item 4 gravel to facilitate future redevelopment. It must be noted that in AOC 29, topsoil was not

required to make up part of the soil cover as was the case in the other AOCs. AOC 29 is within the area designated for future commercial use; therefore, only a 1-foot soil cover is necessary to the meet the direct contact SCOs. AOC 29 was initially excavated to a depth of 2 feet at the request of the NYSDEC then backfilled with 1.5 feet of Item 4 which became the final surface.

3.10 DECONTAMINATION AND DEMOBILIZATION

Vehicles and equipment that contacted potentially affected media were decontaminated prior to leaving an exclusion zone and entering another or leaving the site. Gross contamination removal was performed with shovels and hand tools before leaving the exclusion zones. After gross removal, equipment was transferred to one of two decontamination pads in loading dock bays in Buildings 11A and 13B for pressure washing. To the extent practicable, crane mats or other barriers were used to prevent equipment tires and tracks from contacting contaminated materials. Personnel decontamination stations were established at convenient locations outside the work areas. Personnel decontamination stations consisted of wash and rinse tubs and brushes, disposal containers, and potable water for washing of hands. Decontamination water was transferred to storage containers for onsite treatment or offsite disposal in accordance with Section 3.8.

Following completion of IRM work, work areas were restored to their pre-IRM conditions to the extent practical. Chain-link fences removed during IRM work were replaced. Damaged areas of pavement outside AOC limits were repaired or replaced. Staging area berms and stockpile liners were disposed with the last loads of contaminated materials. Surplus materials such as GCL, geotextile, and sampling supplies were stored inside the buildings and secured. Temporary facilities, except for erosion controls in vegetation restoration areas, were removed. Work areas inside buildings were broom swept. All site work and demobilization activities were completed on September 27, 2019.

3.11 INSTITUTIONAL CONTROLS

Institutional controls in the form of an environmental easement will be placed on areas of the Site where soil containing COC concentrations over the unrestricted use SCOs remain. The purpose of the institutional controls is to (1) implement, maintain and monitor the engineering controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to restricted residential, commercial, or industrial uses as identified in Sheet 2 of the Record Drawings. Emerson anticipates having these institutional controls in place before the sale to L Enterprises. Moreover, Emerson will develop an Interim Site Management Plan (ISMP) prior to the sale to set forth the responsibilities of Emerson and L Enterprises, LLC for inspecting and addressing non-compliance with the institutional and engineering controls. The ISMP will be superseded by a Final SMP once remedies set forth in the anticipated Amended ROD have been implemented to the satisfaction of the NYSDEC.

4 DEVIATIONS FROM THE IRM WORK PLAN

Major deviations to the IRM Work Plan project scope have been described in detail in the previous sections of this CCR; however, as required by DER-10, the changes are summarized in this section. All deviations from the work plan were discussed with NYSDEC and as required, NYSDOH, before implementation.

4.1 STORMWATER POLLUTION PREVENTION PLAN MODIFICATIONS

Upon the completion of AOC 29, three rip-rap check dams were installed parallel to the paved access road to slow storm water and minimize rutting and sediment transport. The check dams are evenly spaced along the AOC 29 construction entrance and will remain in place until future redevelopment is performed.

Approximately 500 linear feet of additional filter sock was deployed throughout the site to intercept and filter sheet flow runoff from small disturbed areas and haul routes.

4.2 AOC 26 OILY MATERIAL

During excavation to install the drainage ditch flow bypass near the southwest corner of Building 24 in AOC 26, a 6-inch diameter, perforated, corrugated metal pipe (CMP) was discovered running parallel to Building 24, along the ditch line, and abruptly ending at a 24-inch grate northeast of the Building 24 Seep. The buried CMP was located approximately 6 to 12 inches below pavement, centered in a pea gravel-filled trench, potentially indicating its historical use as a subsurface or French drain. The drain line contained an oily sludge material with staining around the surrounding gravel. Elevated PID readings were observed during removal of the drain line and subbase. As the excavation progressed along the active utility lines in the AOC 26 excavation, additional oily material and staining were observed.

Following notification and visual inspection by NYSDEC, oily materials along the ditch line and drain line were removed to the extent practicable. The materials that could not be removed near active utility lines were sampled at the direction of the NYSDEC. One sample (“PIPE1”) was analyzed for VOCs and PCBs and two samples (“DITCH” and “PIPE2”) were analyzed for VOCs, PCBs, and PAHs as described in Section 2.3.2. Based on the analytical results slightly above SCOs, the area was approved for backfill by NYSDEC. A demarcation layer was placed along the two active utilities that were not removed.

4.3 AOC 27 RESTORATION

AOC 27 was to be backfilled with Item 4 gravel after removal of weathered or fragmented bedrock with salt crystallization. Based on XRF screening results (Sheet 4 of the Record Drawings) showing elevated concentrations of barium in the residual bedrock and buried portions of the perimeter walls of Building 14, the excavation cavity was backfilled with a CDF to form a more impermeable barrier to minimize the potential for leaching of barium to groundwater. A 100-psi CDF mix design was selected to provide a dense, but excavatable fill to facilitate future redevelopment. The CDF was placed to within 6 inches of the original top of slab elevation. Where bedrock was present at a depth of less than 6 inches, CDF was placed to within 2 to 4 inches below the original top of slab elevation. After curing, NYSDOT No. 2 stone was placed on top of the CDF to the top of the concrete grade.

4.4 AOC 29 RESTORATION

In accordance with L Enterprise's request to facilitate property redevelopment in AOC 29, no topsoil was placed after backfilling the excavation with 1.5 feet of Item 4 gravel. As described in detail in Sections 2.3.5 and 3.9.3, the 1.5 feet of fill exceeds the 1-foot requirement to meet the direct contact SCOs in areas of the Site designated for future commercial use.

4.5 AOC 35G AND AOC 32 DRAINAGE DITCH RESTORATION

A bluish discoloration along the bedrock surface approximately 2 feet below the invert of Open Ditch 1 was observed after excavation of the drainage ditch soil as described in Section 2.3.8. The discoloration is believed to be the result of historical discharge of water containing Prussian Blue, a ferrocyanide compound, to the drainage ditch. Elevated cyanide concentrations were found in soil on the upslope side the drainage ditch near Building 17 where Prussian Blue was used in historical metal working processes. To minimize the potential for direct contact and migration of residual COCs from the affected bedrock to ditch surface water, a layer of GCL was placed along the entire length of Open Ditches 1 and 2 and at the location where the elevated cyanide concentrations were found in soil (Sheet 5 of the Record Drawings).

GCL was also placed over the footprint of AOC 35G. Upon initial excavation, oil was observed seeping from the bedrock bedding plane. As described in Section 2.3.10, immediate measures were taken to prevent oil discharge to the drainage ditch. While the oil seepage did not persist, the restoration plan was modified to include a layer of GCL to isolate the bedding plane if the oil seepage recurred.

The GCL, Bentofix® SRNL manufactured by Cetco®, consists of a sodium bentonite layer between two layers of unwoven geotextile that are needle-punched together to form a composite liner. Prior to placement of the 15-foot wide GCL panels, a small amount of backfill was placed first for GCL protection against protruding bedrock. GCL panels were placed in approximately 10- to 30-foot sections with a 12-inch overlap at each seam, shingled in the direction of storm water flow. Next, a 6-inch layer of Item 4 gravel was placed over the GCL and compacted using a plate compactor. The remainder of the drainage ditch was constructed as described in Section 3.9.3. NYSDOT No. 2 stone was placed on the upslope side the ditch in AOC 35G and in the location of elevated cyanide concentrations. A typical AOC 32/35G drainage ditch cross section detail is shown on Sheet 9 of the Record Drawings.

4.6 AOC 35A SOIL COVER CONSTRUCTION

As described in Section 2.3.10, following the initial excavation in AOC 35A to the limits described in the IRM Work Plan, a dark-colored ash-like material was encountered at a depth of 1 to 2 feet bgs. The material contained arsenic above PoG and RR SCOs. Based on the results of a Geoprobe® boring investigation and additional delineation sampling, a soil cover plan was developed and subsequently approved by the NYSDEC and NYSDOH to address arsenic in AOC 35A. The revised IRM plan included a 2-foot soil cover over the area known to contain arsenic above RR SCO and extending the soil cover to include areas where the ash-like materials were encountered in the Geoprobe® borings.

The initial excavation was backfilled with a demarcation layer and Item 4 gravel soon after initial excavation in November 2018. The new soil cover area extended to the limits shown on Sheet 7 of the Record Drawings. After placing a demarcation barrier, the existing thickness of fill above the ash-like layer was supplemented with additional topsoil such that the final thickness of the soil cover is at least 2 feet. The final surface was revegetated with grass.

4.7 ADDITIONAL MANHOLE, PIT, AND SUMP CLEANOUT

During execution of the IRM work, additional manholes, pits, and sumps containing residuals from historical plant operations were encountered. While excavating in AOC 35C, a utility corridor was uncovered running northwest to southeast between Buildings 2 and 11A as depicted on Sheet 3 of the Record Drawings. While tracing the utility corridor, a pit containing a mixture of oil and water was discovered in a subsurface pipe chase between Buildings 2 and 3. The pit appeared to be hand dug into bedrock. As requested by NYSDEC after notification of the presence of oil in the pit, a sample of the oil was collected and analyzed for PCBs, VOCs, and metals. The sample contained 2.6 mg/kg PCBs and low concentrations of

barium, lead, chromium, and mercury well below SCOs; no VOCs were detected. The contents of the pit were removed by vacuum extraction and transferred to 55-gallon drums. Following removal, the pit was monitored periodically to determine if the oil would recharge; however, none was observed.

When confirmation sample results along the west wall of AOC 1 at the initial limit of excavation (CS-13-WW; Sheet 6 of the Record Drawings) exceeded PoG SCOs, the excavation was advanced to the west exposing the side of manhole MH-42A. At the direction of the NYSDEC, residuals from MH-42A and a connected manhole MH-42B were removed by vacuum extraction and transferred to two 275-gallon IBC totes. Liquid and solid residuals were also found in manholes MH-22 and MH-A6 inside the building. The contents were removed by vacuum extraction and transferred to separate totes. The wastes from all manholes, pits, and sumps were managed as described in Section 3.8. Waste characterization data, profiles, and disposal documentation are provided in Appendix M.

4.8 ADDITIONAL RAO FOR POLYCYCLIC AROMATIC HYDROCARBONS

In addition to achieving PAH-specific SCOs as outlined in the IRM Work Plan, a new RAO was established to meet a supplemental soil cleanup level of 500 mg/kg for total PAHs as required by NYSDEC Policy CP-51. Soil from nine sample locations (three in AOC 29, two in AOC 32, three in AOC 34, and one in AOC 35H) found to contain greater than 500 mg/kg total PAHs in compliance samples were removed regardless of its location below pavements or depths below soil covers. Sample locations and removal limits are shown on Sheets 4, 5, 7, and 8 of the Record Drawings. Analytical data are provided on the tables for these AOCs.

4.9 ADDITIONAL COCS FOR AOC 28

During the Phase II SRI, CVOCs were found at concentrations above PoG SCOs north of the Oil Shed. During excavation of the CVOC-affected soil during the IRM work, discolored soil was encountered at depths greater than 2 feet bgs. The NYSDEC requested sampling of the materials for PCBs, RCRA metals, and cyanide analyses. Arsenic, barium, and cyanide were found at concentrations exceeding commercial and PoG SCOs in one or more samples as described in Section 2.3.4. The NYSDEC required removal of the discolored soil and additional sampling to assess compliance with the SCOs for arsenic, barium, and cyanide. After excavation, samples labeled S-1 through S-10 showed exceedances of commercial and PoG SCOs for arsenic and barium (no exceedances of cyanide SCOs). The exceedances of commercial SCOs were addressed by the 1-foot soil cover. As approved by the NYSDEC, the PoG exceedances will be addressed by downgradient groundwater monitoring for metals as part of the selected remedy for groundwater in the Feasibility Study.

4.10 BUILDING 13A SEWER LINE EXCAVATION AND RESTORATION

Barium was detected at concentrations above PoG and RR SCOs in test pits along the sanitary sewer lines between manholes MH-A1, MH-A2, MH-A3, MH-A4, and MH-06 in Building 13A. Water was present in all four test pits indicating a potential migration pathway to groundwater. Based on these conditions, the decision was made to excavate the manholes and sewer lines in this area to remove the potential source of barium as described in Section 2.3.4. The pipe, manholes, and trench fills were excavated to bedrock and residuals that could not be effectively excavated were removed by vacuum extraction. The wastes were sampled, characterized as a non-hazardous waste, and disposed with other AOC soils.

Most of the sanitary sewers in Building 13A were trenched through bedrock. The last 10 to 15 feet of the trench removal area upgradient of MH-A4 was in soil. Following excavation in this soil area, two documentation samples were collected, one from each sidewall at the invert of the former pipe location. Sample DS-1-WW was collected along the west wall approximately 10 feet upgradient of manhole MH-A4 and sample DS-2-EW was collected along the east wall approximately 5 feet upgradient of MH-A4. A former building foundation wall was present between the two samples approximately 7 feet upgradient of MH-A4. The samples were submitted to Pace Analytical and analyzed for barium. Sample DS-1-WW inside the former foundation wall contained 12,100 mg/kg barium which significantly exceeded the PoG SCO. Sample DS-2-EW

outside the former foundation wall contained 1,330 mg/kg barium which also exceeded the PoG SCO, but was comparatively lower than the other sample indicating that the former foundation wall may have acted as a hydraulic barrier to control migration of COCs. The NYSDEC accepted the results without additional excavation based on the plan to backfill the entire trench with CDF to eliminate the migration pathway. The analytical data report is provided in Appendix B and the results included on Table 17. The excavation area and sample locations are shown on Sheet 10 of the Record Drawings.

4.11 SANITARY SEWER TEST PIT RESTORATION

The sanitary sewer test pits were originally planned to be backfilled with the same excavated material after the investigation samples were collected. However, based on test pit observations, sampling results, and the potential for additional sanitary sewer actions, the decision was made to dispose of the test pit soils and backfill with imported fill materials. A composite sample from all test pit spoils was collected and determined to be a non-hazardous waste. The soil and concrete were disposed with other non-hazardous wastes from the AOCs.

Test pits 1, 2, 3, and 4 were backfilled with CDF concurrently with the sewer line excavation restoration work in Building 13A. Test pits 11, 14, and 22 were also backfilled with CDF to minimize potential migration of barium in the pits that were dry at the time of test pit excavation. Test pits 7, 8, 9, 15, 16, and 17 potentially affected by cyanide were backfilled with Item 4 gravel with the understanding that additional investigation may be necessary. The remaining test pits that did not have pipes present or contained no exceedances of potentially applicable SCOs were backfilled with Item 4 gravel. No. 2 stone was placed above the backfill in the test pits.

5 DOCUMENTATION

5.1 DAILY REPORTS

A daily site observation and construction report was generated each day work occurred and was retained in WSP files. These daily reports served to communicate construction progress and action items for daily and weekly meetings and teleconferences as required. Information recorded in the daily reports included weather conditions, work performed, samples collected, monitoring results, visitors to the site, summary of site meetings and filed decisions, wastes collected and disposed, and identification of problems and their resolution.

5.2 PHOTOGRAPHS

WSP maintained a digital photograph log to track work progress throughout the IRM activities. Selected photographs are provided in Appendix R.

5.3 SURVEYS

Land surveys were performed as necessary to determine pre- and post-excavation elevations for quantity estimation and to document the final limits of excavation and sample locations. Survey data was used to develop the Record Drawings (Sheets 3 through 8).

6 REFERENCES

- New York State Department of Environmental Conservation. DER-10; *Technical Guidance for Site Investigation and Remediation.* May 2010.
- New York State Department of Environmental Conservation. CP-51; *Soil Cleanup Guidance*. October 2010.
- LaBella Associates, D.P.C. *Phase II Environmental Site Assessment.* March 2014.
- WSP USA Inc. *Phase II Supplemental Remedial Investigation Report*. August 5, 2016, revised November 14, 2017.
- WSP USA Inc. *Interim Remedial Measures Work Plan.* August 8, 2018.
- WSP USA Inc. *Contained-In Determination Request.* November 12, 2018, revised April 11, 2019.

FIGURES

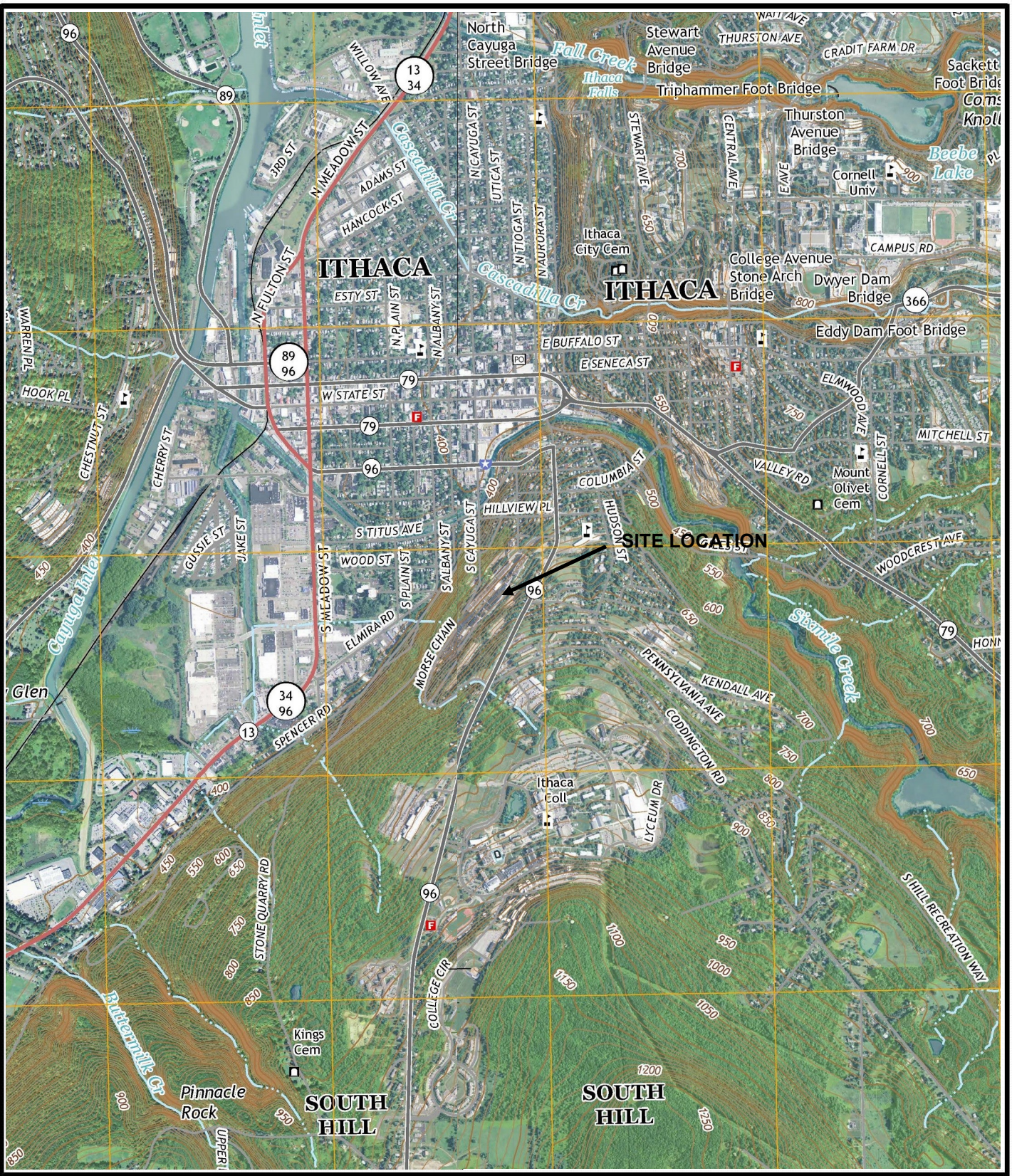
DWG Name: 314P1545.001_Figure 1-1_A01.pub

Checked: DAR 10/23/20

Approved: DAR 10/23/20

A

Drawn By: emk 03/14/19



REFERENCE:
7.5 MINUTE SERIES TOPOGRAPHIC QUADRANGLE
ITHACA EAST AND WEST, NEW YORK 2016
SCALE 1:24,000

QUADRANGLE LOCATION

N

0 1000 2000 4000

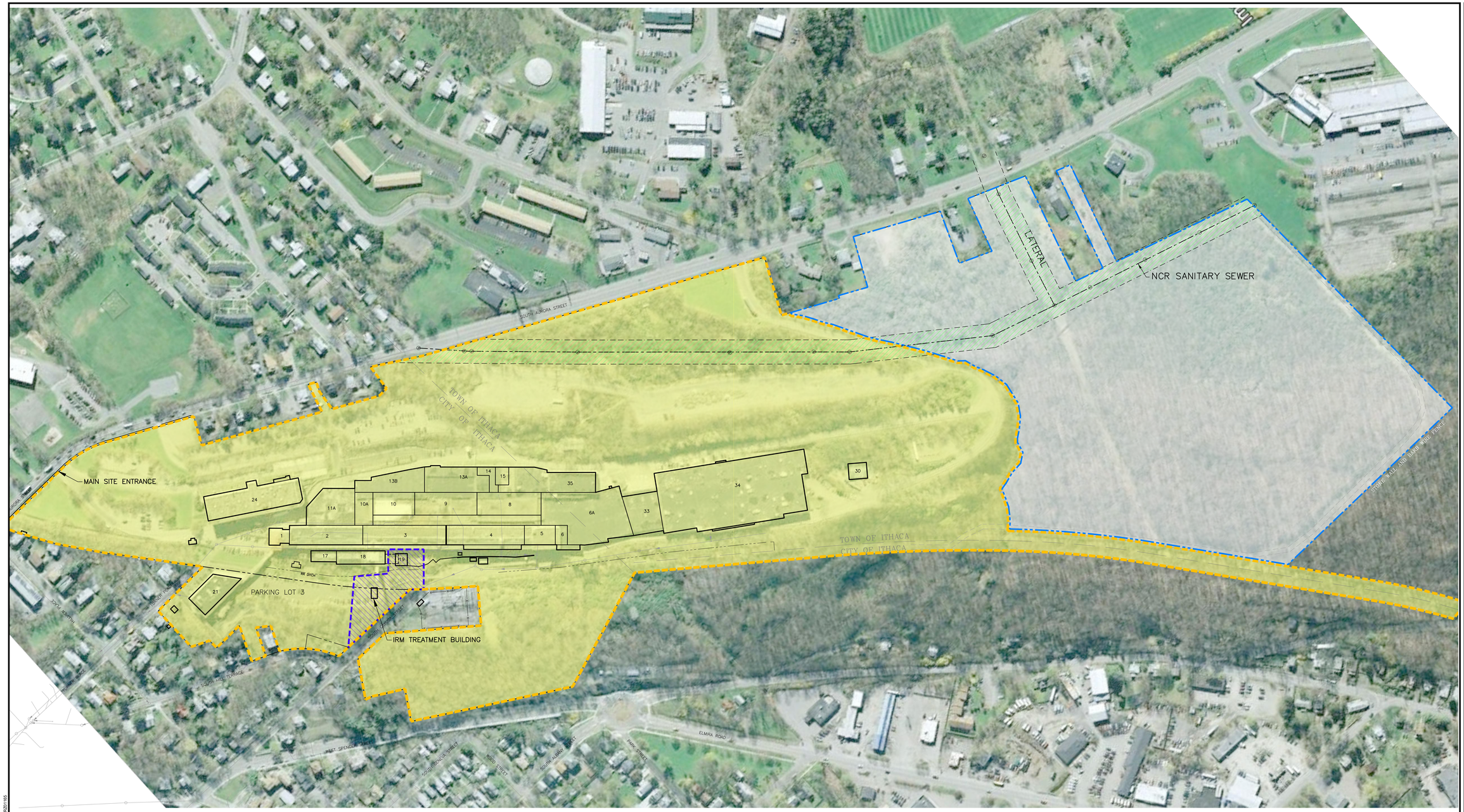
SCALE, FEET

WSP USA Inc.
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
TEL: +1 412.604.1040

FIGURE 1-1

SITE LOCATION

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK
PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI



LEGEND

34 BUILDING NUMBER

DEED RESTRICTION PLACED BY EMERSON

SANITARY SEWER

BOUNDARY FOR OU-1 (RETAINED PROPERTY)

BOUNDARY FOR OU-2

AREA REMOVED FROM SITE NO. 755010

N

150 0 150 300

SCALE, FEET

THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

D

REVISIONS

REV	DESCRIPTION		
1	Revised:	Chkd:	Appr.:
2	Revised:	Chkd:	Appr.:
3	Revised:	Chkd:	Appr.:

SEAL

DATE

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SITE LAYOUT

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

WSP USA Inc.
11 STANWIX STREET, SUITE 950
PITTSBURGH, PA 15222
TEL: +1 412.604.1040

FIGURE 2

Drawing Number
314P1545.001-D116

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RECORD DRAWINGS

INDEX OF DRAWINGS

DRAWING NUMBER	SHEET NUMBER	DESCRIPTION
314P1545.001-D155	1	TITLE SHEET
314P1545.001-D122	2	GENERAL SITE PLAN
314P1545.001-D172	3	AOCs 26 AND 35C FINAL EXCAVATION LIMITS AND SAMPLE LOCATIONS AND RESULTS
314P1545.001-D173	4	AOCs 27 AND 34 FINAL EXCAVATION LIMITS AND SAMPLE LOCATIONS AND RESULTS
314P1545.001-D174	5	AOCs 32 AND 35G FINAL EXCAVATION LIMITS AND SAMPLE LOCATIONS AND RESULTS
314P1545.001-D175	6	AOC 1 FINAL EXCAVATION LIMITS AND SAMPLE LOCATIONS AND RESULTS
314P1545.001-D176	7	AOCs 28, 35A, 35D, 35H, 35K, AND 35L FINAL EXCAVATION LIMITS AND SAMPLE LOCATIONS AND RESULTS
314P1545.001-D177	8	AOCs 29, 30, AND 31 FINAL EXCAVATION LIMITS AND SAMPLE LOCATIONS AND RESULTS
314P1545.001-D129	9	DETAILS AND SECTIONS
314P1545.001-D130	10	SANITARY SEWER EVALUATION RESULTS

TITLE SHEET

RECORD DRAWINGS
INTERIM REMEDIAL MEASURES CONSTRUCTION COMPLETION REPORT
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR

EMERSON
ST. LOUIS, MISSOURI

D

REVISIONS

REV	DESCRIPTION
1 Revised:	Chkd: Appr.:
2 Revised:	Chkd: Appr.:
3 Revised:	Chkd: Appr.:

SEAL

STATE OF NEW YORK · STEVEN KRAUCZUNAS · 082660 · LICENSED PROFESSIONAL ENGINEER

OCTOBER 23, 2020
DATE

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TITLE SHEET

IRM CONSTRUCTION COMPLETION REPORT
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK
PREPARED FOR
EMERSON – ST. LOUIS, MISSOURI

WSP USA Inc.
13530 DULLES TECHNOLOGY DR, SUITE 300
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TEL: +1 703.709.6500

SHEET 1

Drawing Number
314P1545.001–D155

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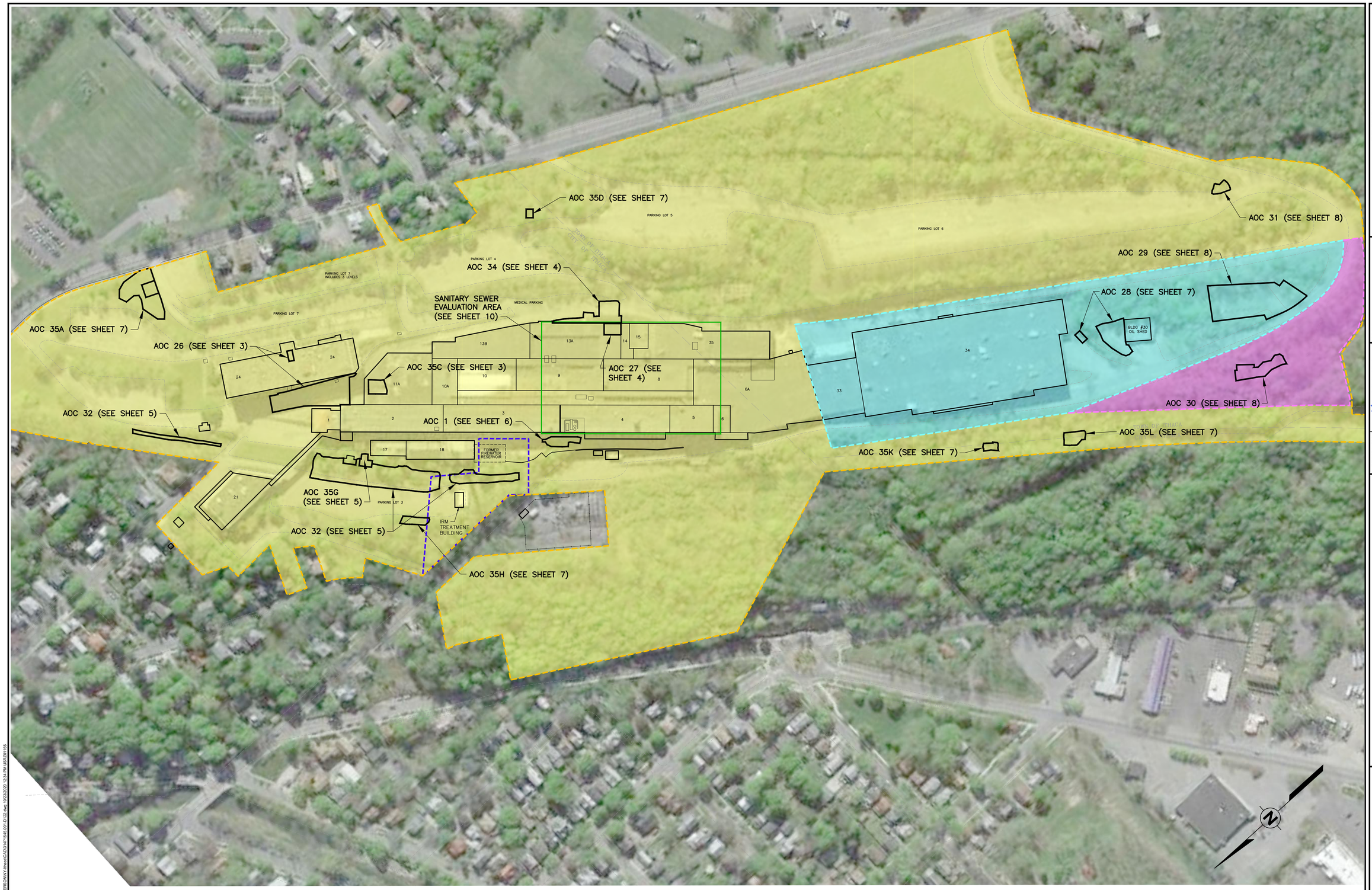

NOTES:

1. GOOGLE EARTH AERIAL PHOTOGRAPH, IMAGERY DATE 5/5/2013.

2. AERIAL PHOTOGRAPHS USED FOR THIS ILLUSTRATION CONTAIN INHERENT DISTORTIONS RESULTING FROM THE PHOTOGRAPHIC PROCESS THAT MAY RESULT IN SLIGHT MISALIGNMENTS WITH THE SURVEYED SITE FEATURES.

LEGEND

- 34 BUILDING NUMBER
- PROPERTY BOUNDARY
- APPROXIMATE LIMITS OF SOIL MANAGEMENT WITHIN AOC
- LIMITS OF OU-1 (RETAINED PROPERTY)

LEGEND

- BOUNDARY FOR OU-2 (YELLOW SHADED AREA INDICATES WHERE RESTRICTED RESIDENTIAL USE SOCs ARE APPLIED)
- AREA WITHIN OU-2 WHERE COMMERCIAL USE SCOs ARE APPLIED
- AREA WITHIN OU-2 WHERE INDUSTRIAL USE SCOs ARE APPLIED

100 0 100 200
SCALE, FEET

THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

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REVISIONS

REV	DESCRIPTION		
1	Revised:	Chkd:	Appr.:
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3	Revised:	Chkd:	Appr.:

SEAL

STATE OF NEW YORK · DAVID A. KRAGESKE · 082660 · LICENSED PROFESSIONAL ENGINEER

OCTOBER 23 2020
DATE

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GENERAL SITE PLAN

IRM CONSTRUCTION COMPLETION REPORT
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
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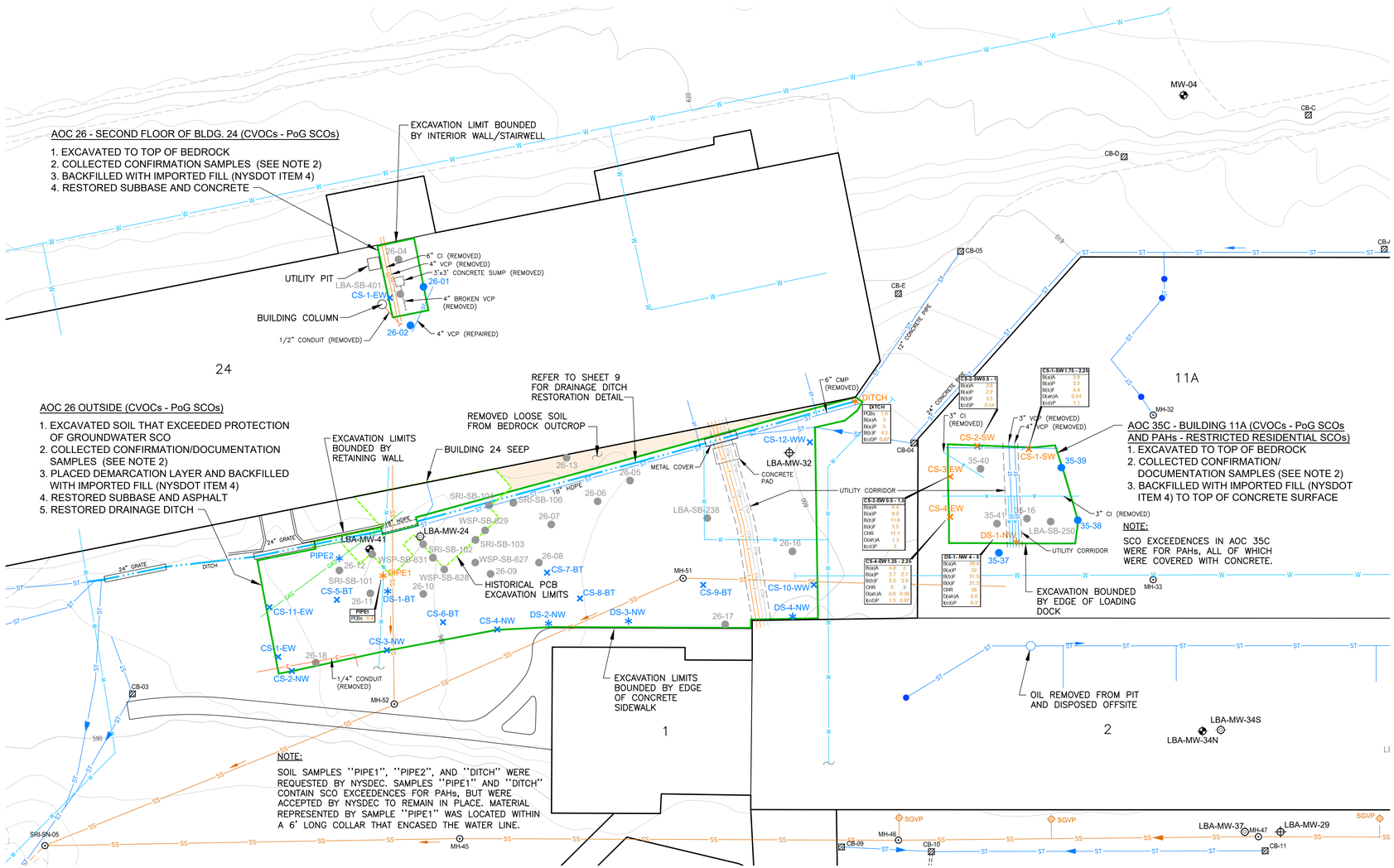
TEL: +1 703.709.6500

SHEET 2

Drawing Number
314P1545.001–D122



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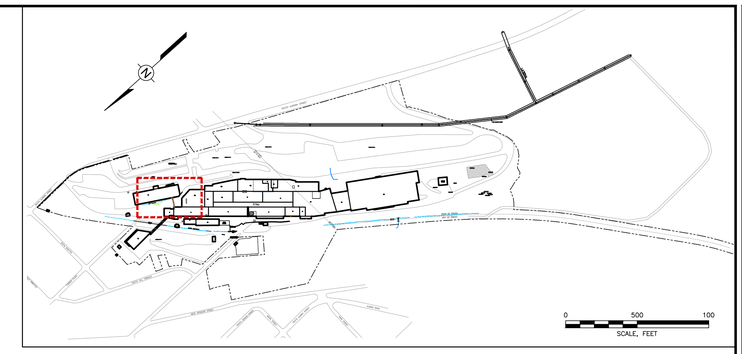

KEY MAP

LEGEND

- ✱ DOCUMENTATION SAMPLE
- × CONFIRMATION SAMPLE
- ● SOIL BORING
  - ORANGE INDICATES SAMPLE RESULTS >SCOs
  - BLUE INDICATES SAMPLE RESULTS <SCOs
  - GRAY INDICATES EXCAVATED SAMPLE OR ABANDONED WELL
- B HYDROGEOLOGIC ZONE
- B/C HYDROGEOLOGIC ZONES
- C HYDROGEOLOGIC ZONE
- MH-52 MANHOLE/MANWAY
- CB-03 CATCH BASIN
- ROOF DRAIN
- SGVP SANITARY GAS VENT PIPE
- 34 BUILDING NUMBER
- W WATER LINE
- ST STORM WATER SEWER LINE
- SS SANITARY SEWER LINE
- GAS GAS LINE
- STM STEAM LINE
- T TELECOMMUNICATIONS LINE
- E ELECTRICAL CONDUIT
- CI CAST IRON
- CMP CORRUGATED METAL PIPE
- HDPE HIGH DENSITY POLYETHYLENE
- PVC POLYVINYL CHLORIDE
- VCP VITREOUS CLAY PIPE
- INTERMITTENT STREAM OR DRAINAGE DITCH
- FINAL EXTENT OF SOIL EXCAVATION

CS-2-SW0.5 - 1
- B(a)A 2.3 — SAMPLE DESIGNATION
- B(a)P 2.2 — SAMPLE DEPTH IN FT–BGS
- B(b)F 3.3 — SAMPLE RESULTS IN mg/kg
- I(cd)P 0.54 — CONSTITUENTS

B(a)A	BENZO(a)ANTHRACENE
B(a)P	BENZO(a)PYRENE
B(b)F	BENZO(b)FLUORANTHENE
B(k)F	BENZO(k)FLUORANTHENE
CHR	CHRYSENE
D(ah)A	DIBENZO(a,h)ANTHRACENE
I(cd)P	INDENO(1,2,3–cd)PYRENE
PCBs	POLYCHLORINATED BIPHENYLS

NYSDEC SCOs	
	RR
PAHs (mg/kg)	
Benzo(a)anthracene	1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1
Benzo(k)fluoranthene	3.9
Chrysene	3.9
Dibenzo(a,h)anthracene	0.33
Indeno(1,2,3-cd)pyrene	0.5
PCBs (mg/kg)	1

NOTES:

1. UTILITY LINES SHOWN ON THIS DRAWING ARE APPROXIMATE. PUBLIC AND PRIVATE UTILITY SURVEYS WERE CONDUCTED IN ALL EXCAVATION AREAS. IDENTIFIED UTILITIES WERE MARKED AND PROTECTED THROUGHOUT THE WORK UNLESS OTHERWISE SHOWN AS BEING REMOVED. UTILITIES MAY HAVE BEEN TEMPORARILY DE–ENERGIZED, REMOVED, AND REPLACED IN ACCORDANCE WITH SERVICE PROVIDERS' PROCEDURES.

2. COMPLIANCE SAMPLES (CONFIRMATION AND DOCUMENTATION) WERE COLLECTED AT A RATE OF 1 SAMPLE PER 30 LINEAR FEET ALONG EXCAVATION SIDE WALLS AND 1 SAMPLE PER 900 SQUARE FEET ALONG THE EXCAVATION BOTTOM WHERE BEDROCK WAS NOT ENCOUNTERED. ADDITIONAL EXCAVATION WAS PERFORMED WHERE SAMPLE RESULTS EXCEEDED APPLICABLE SCOs (SAMPLE SYMBOLS SHOWN IN GRAY). REFER TO TABLES FOR DETAILS OF SCO EXCEEDENCES. CERTAIN HISTORICAL SRI SAMPLE LOCATIONS AND DATA WERE USED AS CONFIRMATION SAMPLES.

3. EXCAVATED SOILS WERE STOCKPILED, CHARACTERIZED, AND DISPOSED OF OFFSITE.

4. EXCAVATED AREAS WERE BACKFILLED WITH IMPORTED FILL TO MATCH THE ORIGINAL GRADES UNLESS OTHERWISE SPECIFIED. A HIGH–VISIBILITY DEMARCATION LAYER (GEOTEX® 401) WAS PLACED WHERE EXCAVATION DID NOT EXTEND TO BEDROCK. DRAINAGE DITCHES WERE RESTORED AS SHOWN ON THE DETAIL ON SHEET 9.

5. PAVEMENTS WERE RESTORED IN KIND UNLESS OTHERWISE SPECIFIED.

6. THE DEPTH OF THE FOOTERS WERE VERIFIED BY HAND–DIGGING WHERE EXCAVATION WAS PLANNED NEAR BUILDING WALLS OR SUPPORT COLUMNS. NO EXCAVATION WAS PERFORMED BELOW THE BOTTOM OF THE BUILDING FOOTERS.

7. EXCAVATION LIMITS AND MOST COMPLIANCE SAMPLE LOCATIONS WERE SURVEYED BEFORE BACKFILLING.

REVISIONS

REV	DESCRIPTION
1	Revised: Chkd: Appr.:
2	Revised: Chkd: Appr.:
3	Revised: Chkd: Appr.:

SEAL: STATE OF NEW YORK — DAVID L. KRAEGER — 082660 — LICENSED PROFESSIONAL ENGINEER — OCTOBER 23, 2020 DATE

DRAWN BY: PW 09/01/20
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AOCs 26 AND 35C FINAL EXCAVATION LIMITS AND SAMPLE LOCATIONS AND RESULTS

IRM CONSTRUCTION COMPLETION REPORT
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON – ST. LOUIS, MISSOURI

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SHEET 3

Drawing Number
314P1545.001–D172

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NOTES:

1. UTILITY LINES SHOWN ON THIS DRAWING ARE APPROXIMATE. PUBLIC AND PRIVATE UTILITY SURVEYS WERE CONDUCTED IN ALL EXCAVATION AREAS. IDENTIFIED UTILITIES WERE MARKED AND PROTECTED THROUGHOUT THE WORK UNLESS OTHERWISE SHOWN AS BEING REMOVED. UTILITIES MAY HAVE BEEN TEMPORARILY DE–ENERGIZED, REMOVED, AND REPLACED IN ACCORDANCE WITH SERVICE PROVIDERS' PROCEDURES.

2. COMPLIANCE SAMPLES (CONFIRMATION AND DOCUMENTATION) WERE COLLECTED AT A RATE OF 1 SAMPLE PER 30 LINEAR FEET ALONG EXCAVATION SIDE WALLS AND 1 SAMPLE PER 900 SQUARE FEET ALONG THE EXCAVATION BOTTOM WHERE BEDROCK WAS NOT ENCOUNTERED. ADDITIONAL EXCAVATION WAS PERFORMED WHERE SAMPLE RESULTS EXCEEDED APPLICABLE SCOs (SAMPLE SYMBOLS SHOWN IN GRAY). REFER TO TABLES FOR DETAILS OF SCO EXCEEDENCES. CERTAIN HISTORICAL SRI SAMPLE LOCATIONS AND DATA WERE USED AS CONFIRMATION SAMPLES.

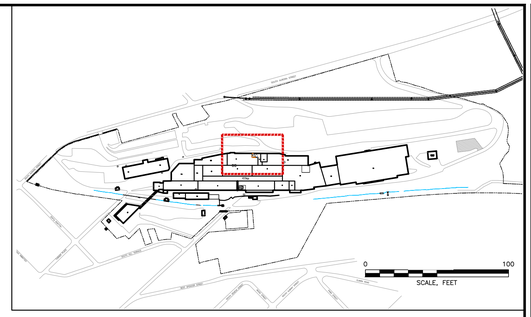
3. EXCAVATED SOILS WERE STOCKPILED, CHARACTERIZED, AND DISPOSED OF OFFSITE.

4. EXCAVATED AREAS WERE BACKFILLED WITH IMPORTED FILL TO MATCH THE ORIGINAL GRADES UNLESS OTHERWISE SPECIFIED. A HIGH–VISIBILITY DEMARCATION LAYER (GEOTEX® 401) WAS PLACED WHERE EXCAVATION DID NOT EXTEND TO BEDROCK. DRAINAGE DITCHES WERE RESTORED AS SHOWN ON THE DETAIL ON SHEET 9.

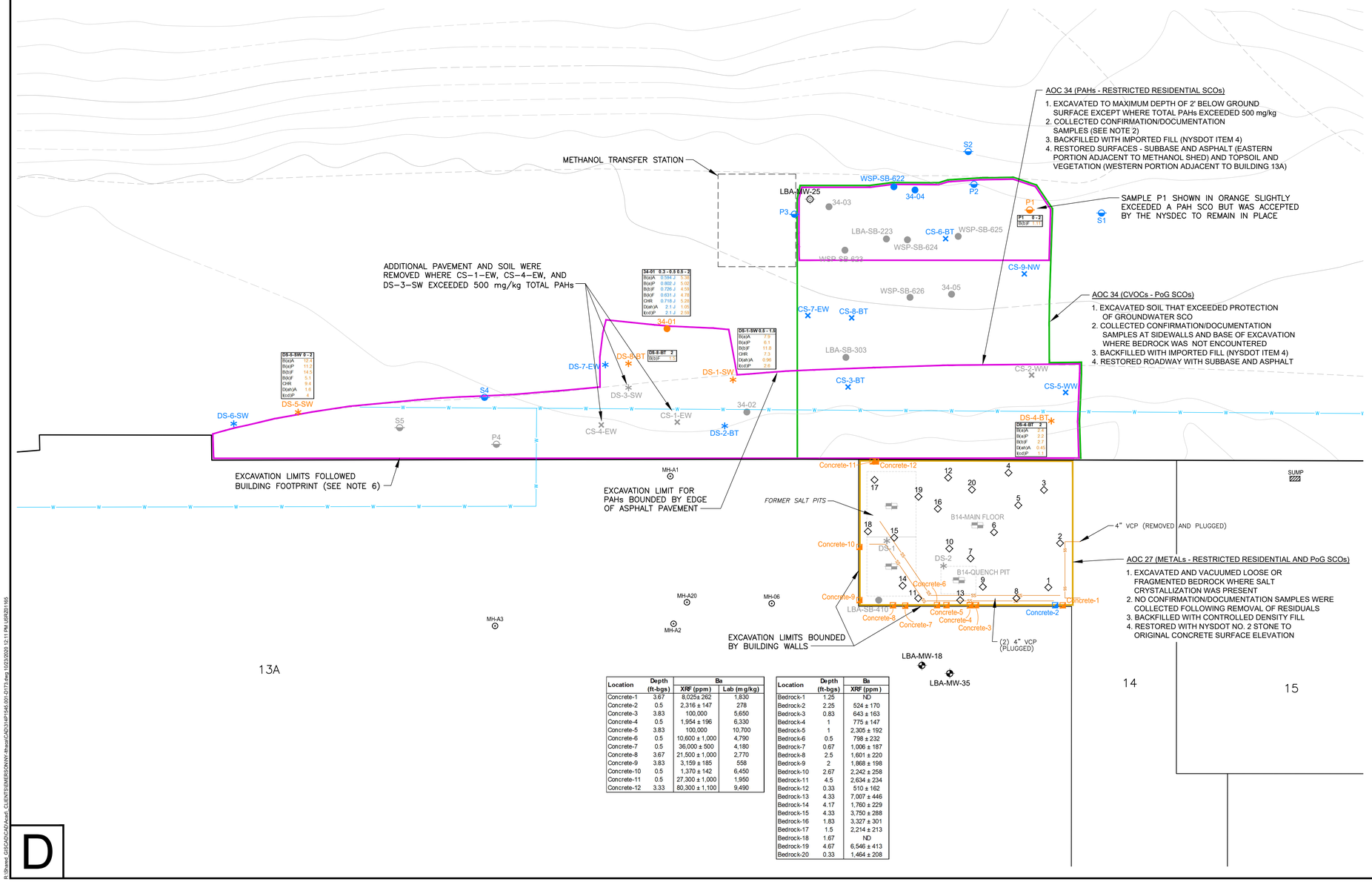
5. PAVEMENTS WERE RESTORED IN KIND UNLESS OTHERWISE SPECIFIED.

6. THE DEPTH OF THE FOOTERS WERE VERIFIED BY HAND–DIGGING WHERE EXCAVATION WAS PLANNED NEAR BUILDING WALLS OR SUPPORT COLUMNS. NO EXCAVATION WAS PERFORMED BELOW THE BOTTOM OF THE BUILDING FOOTERS.

7. EXCAVATION LIMITS AND MOST COMPLIANCE SAMPLE LOCATIONS WERE SURVEYED BEFORE BACKFILLING.



KEY MAP



AOC 34 (PAHs - RESTRICTED RESIDENTIAL SCOs)

1. EXCAVATED TO MAXIMUM DEPTH OF 2' BELOW GROUND SURFACE EXCEPT WHERE TOTAL PAHs EXCEEDED 500 mg/kg
2. COLLECTED CONFIRMATION/DOCUMENTATION SAMPLES (SEE NOTE 2)
3. BACKFILLED WITH IMPORTED FILL (NYSDOT ITEM 4)
4. RESTORED SURFACES - SUBBASE AND ASPHALT (EASTERN PORTION ADJACENT TO METHANOL SHED) AND TOPSOIL AND VEGETATION (WESTERN PORTION ADJACENT TO BUILDING 13A)

SAMPLE P1 SHOWN IN ORANGE SLIGHTLY EXCEEDED A PAH SCO BUT WAS ACCEPTED BY THE NYSDEC TO REMAIN IN PLACE

AOC 34 (CVOCs - PoG SCOs)

1. EXCAVATED SOIL THAT EXCEEDED PROTECTION OF GROUNDWATER SCO
2. COLLECTED CONFIRMATION/DOCUMENTATION SAMPLES AT SIDEWALLS AND BASE OF EXCAVATION WHERE BEDROCK WAS NOT ENCOUNTERED
3. BACKFILLED WITH IMPORTED FILL (NYSDOT ITEM 4)
4. RESTORED ROADWAY WITH SUBBASE AND ASPHALT

AOC 27 (METALs - RESTRICTED RESIDENTIAL AND PoG SCOs)

1. EXCAVATED AND VACUUMED LOOSE OR FRAGMENTED BEDROCK WHERE SALT CRYSTALLIZATION WAS PRESENT
2. NO CONFIRMATION/DOCUMENTATION SAMPLES WERE COLLECTED FOLLOWING REMOVAL OF RESIDUALS
3. BACKFILLED WITH CONTROLLED DENSITY FILL
4. RESTORED WITH NYSDOT NO. 2 STONE TO ORIGINAL CONCRETE SURFACE ELEVATION

Location	Depth (ft-bgs)	Ba XRF (ppm)	Ba Lab (mg/kg)
Concrete-1	3.67	8,025± 262	1,830
Concrete-2	0.5	2,316 ± 147	278
Concrete-3	3.83	100,000	5,650
Concrete-4	0.5	1,954 ± 196	6,330
Concrete-5	3.83	100,000	10,700
Concrete-6	0.5	10,600 ± 1,000	4,790
Concrete-7	0.5	36,000 ± 500	4,180
Concrete-8	3.67	21,500 ± 1,000	2,770
Concrete-9	3.83	3,159 ± 185	558
Concrete-10	0.5	1,370 ± 142	6,450
Concrete-11	0.5	27,300 ± 1,000	1,950
Concrete-12	3.33	80,300 ± 1,100	9,490

Location	Depth (ft-bgs)	Ba XRF (ppm)
Bedrock-1	1.25	ND
Bedrock-2	2.25	524 ± 170
Bedrock-3	0.83	643 ± 163
Bedrock-4	1	775 ± 147
Bedrock-5	1	2,305 ± 192
Bedrock-6	0.5	798 ± 232
Bedrock-7	0.67	1,006 ± 187
Bedrock-8	2.5	1,601 ± 220
Bedrock-9	2	1,868 ± 198
Bedrock-10	2.67	2,242 ± 258
Bedrock-11	4.5	2,634 ± 234
Bedrock-12	0.33	510 ± 162
Bedrock-13	4.33	7,007 ± 446
Bedrock-14	4.17	1,760 ± 229
Bedrock-15	4.33	3,750 ± 288
Bedrock-16	1.83	3,327 ± 301
Bedrock-17	1.5	2,214 ± 213
Bedrock-18	1.67	ND
Bedrock-19	4.67	6,546 ± 413
Bedrock-20	0.33	1,464 ± 208

LEGEND

- DOCUMENTATION SAMPLE
- CONFIRMATION SAMPLE
- DELINEATION SAMPLE
- SOIL BORING
- TEST PIT
- CONCRETE WALL SAMPLE
- ORANGE INDICATES SAMPLE RESULTS >SCOs
- BLUE INDICATES SAMPLE RESULTS <SCOs
- GRAY INDICATES EXCAVATED SAMPLE OR ABANDONED WELL
- A/B HYDROGEOLOGIC ZONES
- B HYDROGEOLOGIC ZONE
- C HYDROGEOLOGIC ZONE
- SOIL BORING
- BEDROCK SAMPLE (XRF ONLY)
- MH-52 MANHOLE/MANWAY
- CB-03 CATCH BASIN
- 34 BUILDING NUMBER
- CI CAST IRON
- CMP CORRUGATED METAL PIPE
- HDPE HIGH DENSITY POLYETHYLENE
- PVC POLYVINYL CHLORIDE
- VCP VITREOUS CLAY PIPE
- W WATER LINE
- SS SANITARY SEWER LINE
- FINAL EXTENT OF SOIL EXCAVATION (PAHs)
- FINAL EXTENT OF SOIL EXCAVATION (CVOCs)
- FINAL EXTENT OF BEDROCK EXCAVATION (METALS)
- SAMPLE DESIGNATION
- SAMPLE DEPTH IN FT–BGS
- SAMPLE RESULTS IN mg/kg
- CONSTITUENTS

Ba	BARIUM
B(a)A	BENZO(a)ANTHRACENE
B(a)P	BENZO(a)PYRENE
B(b)F	BENZO(b)FLUORANTHENE
B(k)F	BENZO(k)FLUORANTHENE
CHR	CHRYSENE
D(ah)A	DIBENZO(a,h)ANTHRACENE
I(cd)P	INDENO(1,2,3–cd)PYRENE
ND	NOT DETECTED

NYSDEC SCOs	RR
PAHs (mg/kg)	
Benzo(a)anthracene	1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1
Benzo(k)fluoranthene	3.9
Chrysene	3.9
Dibenzo(a,h)anthracene	0.33
Indeno(1,2,3-cd)pyrene	0.5
Metals (mg/kg)	
Barium	400

10 0 10 20
SCALE, FEET

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STATE OF NEW YORK · DAVID ALAN KRASKEWICZ · 122680 · LICENSED PROFESSIONAL ENGINEER

OCTOBER 23, 2020
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CHECKED: KMS 10/20/20
APPROVED: SAK 10/23/20

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AOCs 27 AND 34 FINAL EXCAVATION LIMITS AND SAMPLE LOCATIONS AND RESULTS

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SHEET 4

Drawing Number
314P1545.001–D173

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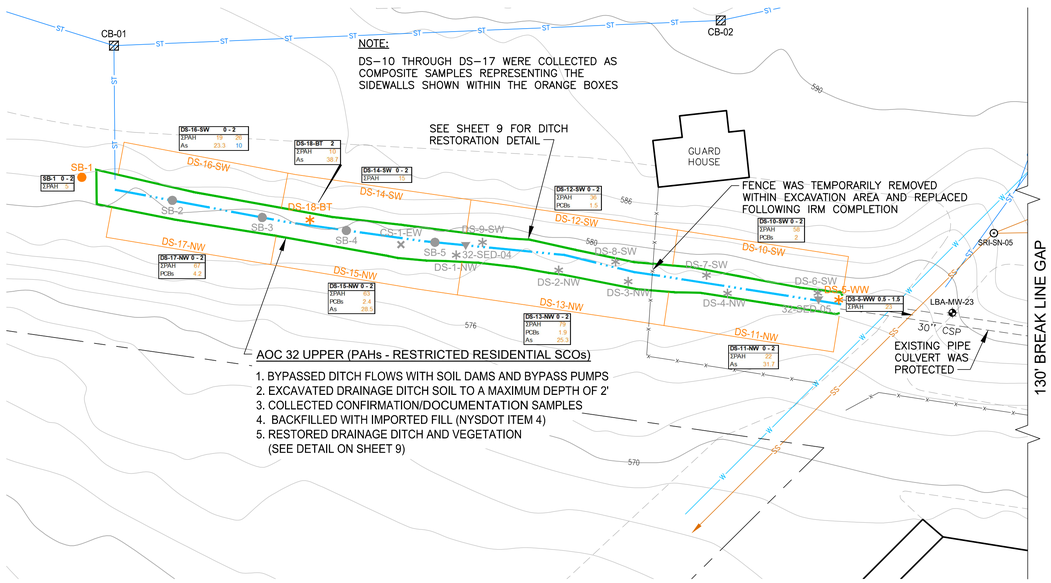
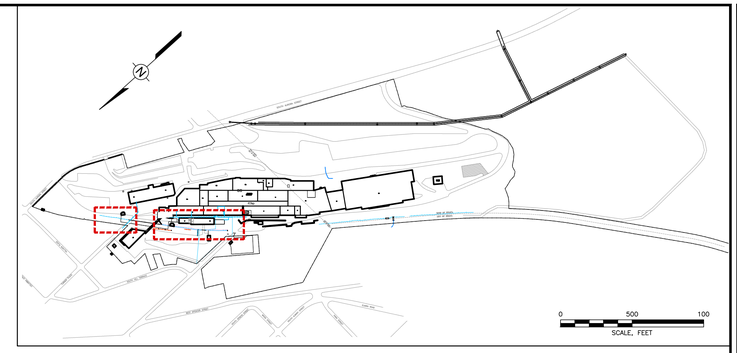


LEGEND

- DOCUMENTATION SAMPLE
- CONFIRMATION SAMPLE
- DELINEATION SAMPLE
- SOIL BORING
- TEST PIT
- SEDIMENT SAMPLE
  - ORANGE INDICATES SAMPLE RESULTS >SCOs
  - BLUE INDICATES SAMPLE RESULTS <SCOs
  - GRAY INDICATES EXCAVATED SAMPLE OR ABANDONED WELL
- HISTORICAL WELL
- A/B HYDROGEOLOGIC ZONES
- B HYDROGEOLOGIC ZONE
- B/C HYDROGEOLOGIC ZONES
- C HYDROGEOLOGIC ZONE
- D HYDROGEOLOGIC ZONE
- EXTRACTION WELL
- PIEZOMETER
- LIGHT POLE
- MH-52 MANHOLE/MANWAY
- CB-03 CATCH BASIN
- SGVP SANITARY GAS VENT PIPE
- 34 BUILDING NUMBER
- PROPERTY BOUNDARY
- LIMITS OF OU-1
- W WATER LINE
- ST STORM WATER SEWER LINE
- SS SANITARY SEWER LINE
- E ELECTRICAL CONDUIT
- INTERMITTENT STREAM OR DRAINAGE DITCH
- FINAL EXTENT OF SOIL EXCAVATION AOC 32
- FINAL EXTENT OF SOIL EXCAVATION AOC 35G
- LIMITS OF GCL (APPROXIMATE)
- DS-2-NW 1 - 2 / ΣPAH 18.2 / PCBs 0.23 — SAMPLE DESIGNATION; SAMPLE DEPTH IN FT-BGS; SAMPLE RESULTS IN mg/kg; CONSTITUENTS
- ΣPAH SUM OF POLYCYLIC AROMATIC HYDROCARBONS >SCOs
- As ARSENIC
- CN⁻ CYANIDE
- Pb LEAD
- Hg MERCURY
- PCBs POLYCHLORINATED BIPHENYLS

NYSDEC SCOs	RR
Metals (mg/kg)	
Arsenic	16
Lead	400
Mercury	0.81
Cyanide (mg/kg)	27
PCBs (mg/kg)	1
PAHs (mg/kg)	See Table 8



KEY MAP

NOTES:

1. UTILITY LINES SHOWN ON THIS DRAWING ARE APPROXIMATE. PUBLIC AND PRIVATE UTILITY SURVEYS WERE CONDUCTED IN ALL EXCAVATION AREAS. IDENTIFIED UTILITIES WERE MARKED AND PROTECTED THROUGHOUT THE WORK UNLESS OTHERWISE SHOWN AS BEING REMOVED. UTILITIES MAY HAVE BEEN TEMPORARILY DE-ENERGIZED, REMOVED, AND REPLACED IN ACCORDANCE WITH SERVICE PROVIDERS' PROCEDURES.

2. COMPLIANCE SAMPLES (CONFIRMATION AND DOCUMENTATION) WERE COLLECTED AT A RATE OF 1 SAMPLE PER 30 LINEAR FEET ALONG EXCAVATION SIDE WALLS AND 1 SAMPLE PER 900 SQUARE FEET ALONG THE EXCAVATION BOTTOM WHERE BEDROCK WAS NOT ENCOUNTERED. ADDITIONAL EXCAVATION WAS PERFORMED WHERE SAMPLE RESULTS EXCEEDED APPLICABLE SCOs (SAMPLE SYMBOLS SHOWN IN GRAY). REFER TO TABLES FOR DETAILS OF SCO EXCEEDENCES. CERTAIN HISTORICAL SRI SAMPLE LOCATIONS AND DATA WERE USED AS CONFIRMATION SAMPLES.

3. EXCAVATED SOILS WERE STOCKPILED, CHARACTERIZED, AND DISPOSED OF OFFSITE.

4. EXCAVATED AREAS WERE BACKFILLED WITH IMPORTED FILL TO MATCH THE ORIGINAL GRADES UNLESS OTHERWISE SPECIFIED. A HIGH-VISIBILITY DEMARCATION LAYER (GEOTEX® 401) WAS PLACED WHERE EXCAVATION DID NOT EXTEND TO BEDROCK. DRAINAGE DITCHES WERE RESTORED AS SHOWN ON THE DETAIL ON SHEET 9.

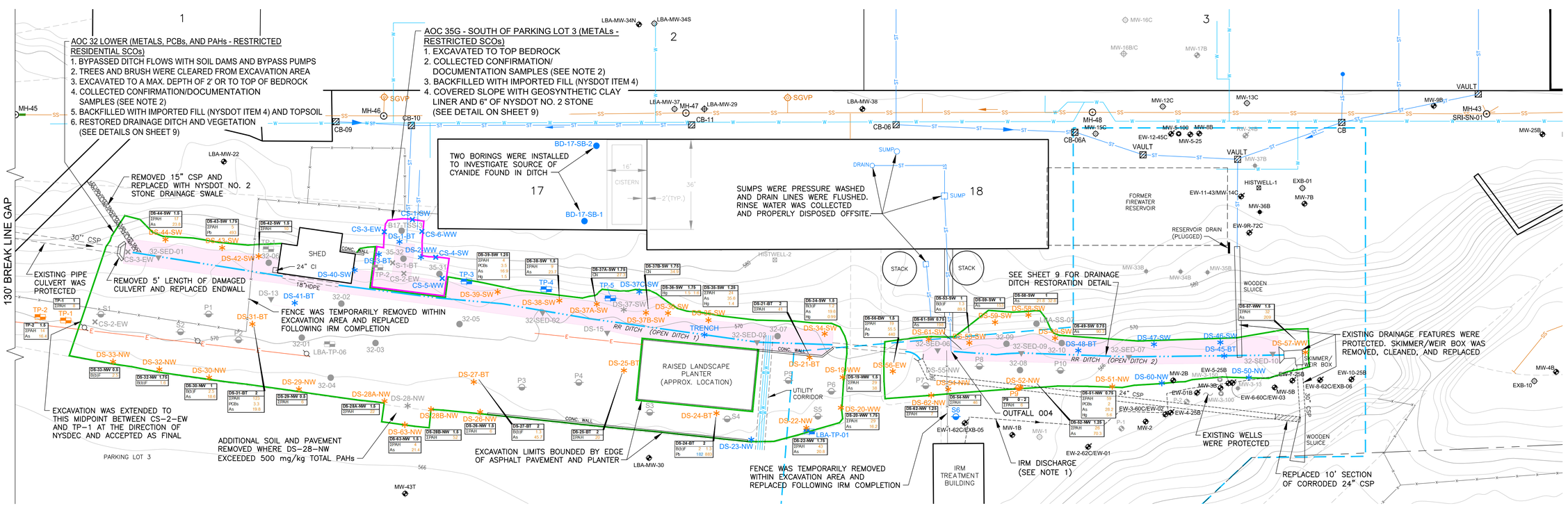
5. PAVEMENTS WERE RESTORED IN KIND UNLESS OTHERWISE SPECIFIED.

6. THE DEPTH OF THE FOOTERS WERE VERIFIED BY HAND-DIGGING WHERE EXCAVATION WAS PLANNED NEAR BUILDING WALLS OR SUPPORT COLUMNS. NO EXCAVATION WAS PERFORMED BELOW THE BOTTOM OF THE BUILDING FOOTERS.

7. EXCEEDENCES OF SCO FOR PAHs IN CONFIRMATION SAMPLES WERE ACCEPTED BY NYSDEC.

8. EXCAVATION LIMITS AND MOST COMPLIANCE SAMPLE LOCATIONS WERE SURVEYED BEFORE BACKFILLING.

9. SEE TABLE 8 FOR INDIVIDUAL PAHs GREATER THAN SCOs.



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D

REVISIONS

REV	DESCRIPTION
1	Revised: Chkd: Appr.:
2	Revised: Chkd: Appr.:
3	Revised: Chkd: Appr.:

SEAL: STATE OF NEW YORK — DAVID A. GRASSELLI — 076860 — PROFESSIONAL ENGINEER

OCTOBER 23, 2020
DATE

DRAWN BY: RJF 09/01/20
CHECKED: BAG 09/01/20
APPROVED: SAK 09/01/20

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AOCs 32 AND 35G FINAL EXCAVATION LIMITS AND SAMPLE LOCATIONS AND RESULTS

IRM CONSTRUCTION COMPLETION REPORT
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON – ST. LOUIS, MISSOURI

WSP USA Inc.
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SHEET 5

Drawing Number
314P1545.001-D174

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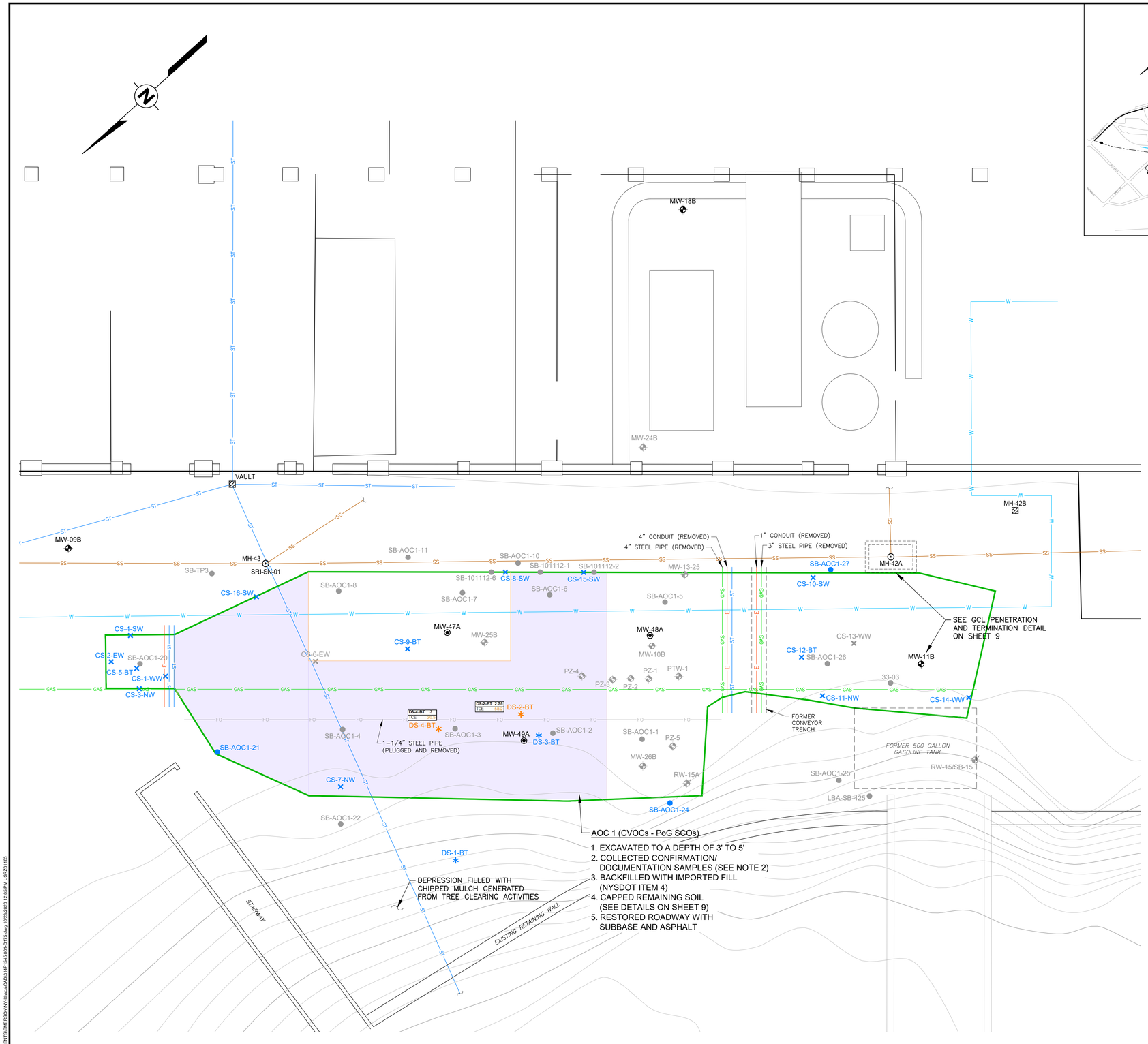
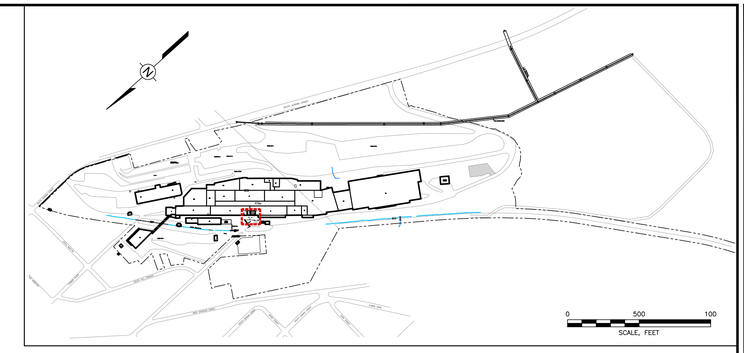


THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.



KEY MAP

LEGEND

- ✱ DOCUMENTATION SAMPLE
- ✕ CONFIRMATION SAMPLE
- ● SOIL BORING
  - ORANGE INDICATES SAMPLE RESULTS >SCOs
  - BLUE INDICATES SAMPLE RESULTS <SCOs
  - GRAY INDICATES EXCAVATED SAMPLE OR ABANDONED WELL
- A HYDROGEOLOGIC ZONE
- B HYDROGEOLOGIC ZONE
- EXTRACTION WELL
- PIEZOMETER
- MH-52 MANHOLE/MANWAY
- CB-03 CATCH BASIN
- 34 BUILDING NUMBER
- W WATER LINE (APPROX. LOCATION, SEE NOTE 5)
- ST STORM WATER SEWER LINE (APPROX. LOCATION)
- SS SANITARY SEWER LINE (APPROX. LOCATION)
- GAS GAS LINE (APPROX. LOCATION)
- E ELECTRICAL CONDUIT (APPROX. LOCATION)
- FO LIGHT FUEL OIL LINE (APPROX. LOCATION)
- CI CAST IRON
- CMP CORRUGATED METAL PIPE
- HDPE HIGH DENSITY POLYETHYLENE
- PVC POLYVINYL CHLORIDE
- VCP VITREOUS CLAY PIPE
- FINAL EXTENT OF SOIL EXCAVATION AND CAP
- F001 SEGREGATED MATERIAL LIMITS (SEE NOTE 7)
- SAMPLE DESIGNATION
- SAMPLE DEPTH FT–BGS
- SAMPLE RESULTS IN mg/kg
- CONSTITUENT
- TCE TRICHLOROETHENE

NYSDEC SCOs	
	PoG
VOCs (mg/kg)	
TCE	0.47

NOTES:

1. UTILITY LINES SHOWN ON THIS DRAWING ARE APPROXIMATE. PUBLIC AND PRIVATE UTILITY SURVEYS WERE CONDUCTED IN ALL EXCAVATION AREAS. IDENTIFIED UTILITIES WERE MARKED AND PROTECTED THROUGHOUT THE WORK UNLESS OTHERWISE SHOWN AS BEING REMOVED. UTILITIES MAY HAVE BEEN TEMPORARILY DE–ENERGIZED, REMOVED, AND REPLACED IN ACCORDANCE WITH SERVICE PROVIDERS' PROCEDURES.

2. COMPLIANCE SAMPLES (CONFIRMATION AND DOCUMENTATION) WERE COLLECTED AT A RATE OF 1 SAMPLE PER 30 LINEAR FEET ALONG EXCAVATION SIDE WALLS AND 1 SAMPLE PER 900 SQUARE FEET ALONG THE EXCAVATION BOTTOM WHERE BEDROCK WAS NOT ENCOUNTERED. ADDITIONAL EXCAVATION WAS PERFORMED WHERE SAMPLE RESULTS EXCEEDED APPLICABLE SCOs (SAMPLE SYMBOLS SHOWN IN GRAY). REFER TO TABLES FOR DETAILS OF SCO EXCEEDENCES. CERTAIN HISTORICAL SRI SAMPLE LOCATIONS AND DATA WERE USED AS CONFIRMATION SAMPLES. TO THE EXTENT PRACTICAL (WHERE NOT AFFECTED BY ACTIVE UTILITIES), ADDITIONAL EXCAVATION WAS PERFORMED WHERE SAMPLE RESULTS EXCEEDED THE RESTRICTED RESIDENTIAL SCOs TO A MAXIMUM DEPTH OF 5 FEET BELOW GROUND SURFACE.

3. EXCAVATED SOILS WERE STOCKPILED, CHARACTERIZED, AND DISPOSED OF OFFSITE.

4. EXCAVATED AREAS WERE BACKFILLED WITH IMPORTED FILL TO MATCH THE ORIGINAL GRADES UNLESS OTHERWISE SPECIFIED. A HIGH–VISIBILITY DEMARCATION LAYER (GEOTEX® 401) WAS PLACED WHERE EXCAVATION DID NOT EXTEND TO BEDROCK. DRAINAGE DITCHES WERE RESTORED AS SHOWN ON THE DETAIL ON SHEET 9.

5. PAVEMENTS WERE RESTORED IN KIND UNLESS OTHERWISE SPECIFIED.

6. THE DEPTH OF THE FOOTERS WERE VERIFIED BY HAND–DIGGING WHERE EXCAVATION WAS PLANNED NEAR BUILDING WALLS OR SUPPORT COLUMNS. NO EXCAVATION WAS PERFORMED BELOW THE BOTTOM OF THE BUILDING FOOTERS.

7. MANAGEMENT OF SOIL EXCAVATED FROM AOC 1 WAS SUBJECT TO CONTAINED–IN DETERMINATION FROM THE NYSDEC. SOIL FROM SHADED AREA WAS MANAGED AS AN F001 LISTED HAZARDOUS WASTE. SOIL FROM UNSHADED AREA WAS MANAGED AS A NON–HAZARDOUS WASTE.

8. EXCAVATION LIMITS AND MOST COMPLIANCE SAMPLE LOCATIONS WERE SURVEYED BEFORE BACKFILLING.

REVISIONS

REV	DESCRIPTION
1	Revised: Chkd: Appr.:
2	Revised: Chkd: Appr.:
3	Revised: Chkd: Appr.:

SEAL: STATE OF NEW YORK · DAVID A. GRAEFENHAIN · 122680 · LICENSED PROFESSIONAL ENGINEER

OCTOBER 23, 2020
DATE

DRAWN BY: RM 10/23/2020
CHECKED: GAG 10/23/2020
APPROVED: SAR 10/23/2020

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AOC 1 FINAL EXCAVATION LIMITS, CAP, AND SAMPLE LOCATIONS AND RESULTS

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FORMER EMERSON POWER TRANSMISSION
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PREPARED FOR
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SHEET 6

Drawing Number
314P1545.001–D175

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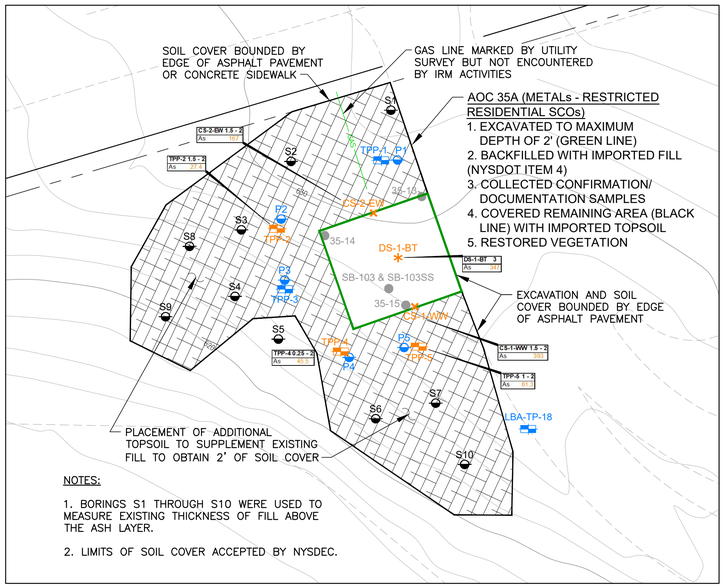
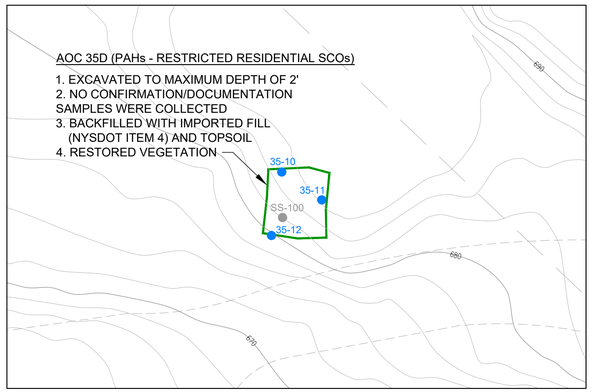
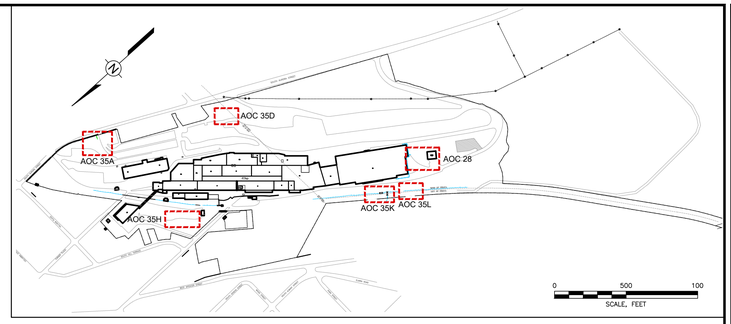


AOC 35A - EAST OF BUILDING 24 (METALs - RESTRICTED RESIDENTIAL SCOs)



AOC 35D - NEAR PARKING LOT 4 (PAHs - RESTRICTED RESIDENTIAL SCOs)



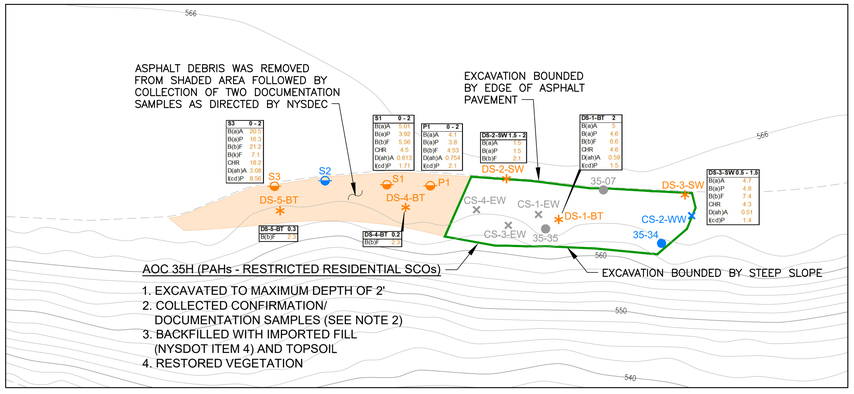
KEY MAP

LEGEND

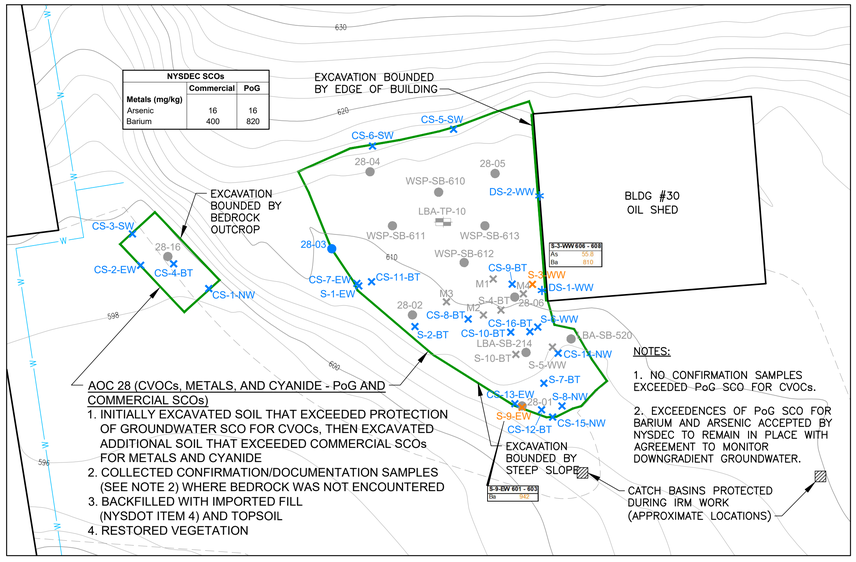
- DOCUMENTATION SAMPLE
- CONFIRMATION SAMPLE
- DELINEATION SAMPLE
- SOIL BORING
- TEST PIT
  - ORANGE INDICATES SAMPLE RESULTS >SCOs
  - BLUE INDICATES SAMPLE RESULTS <SCOs
  - GRAY INDICATES EXCAVATED SAMPLE OR ABANDONED WELL
- A/B HYDROGEOLOGIC ZONES
- B HYDROGEOLOGIC ZONE
- C HYDROGEOLOGIC ZONE
- CB-03 CATCH BASIN
- PROPERTY BOUNDARY
- W WATER LINE
- ST STORM WATER SEWER LINE
- GAS GAS GAS LINE
- INTERMITTENT STREAM OR DRAINAGE DITCH
- FINAL EXTENT OF SOIL EXCAVATION
- SOIL COVER AREA (AOC 35A)
- SAMPLE DESIGNATION
- SAMPLE DEPTH IN FT–BGS
- SAMPLE RESULTS IN mg/kg
- CONSTITUENTS

As	ARSENIC
Ba	BARIUM
B(a)A	BENZO(a)ANTHRACENE
B(a)P	BENZO(a)PYRENE
B(b)F	BENZO(b)FLUORANTHENE
B(k)F	BENZO(k)FLUORANTHENE
CHR	CHRYSENE
D(ah)A	DIBENZO(a,h)ANTHRACENE
I(cd)P	INDENO(1,2,3–cd)PYRENE

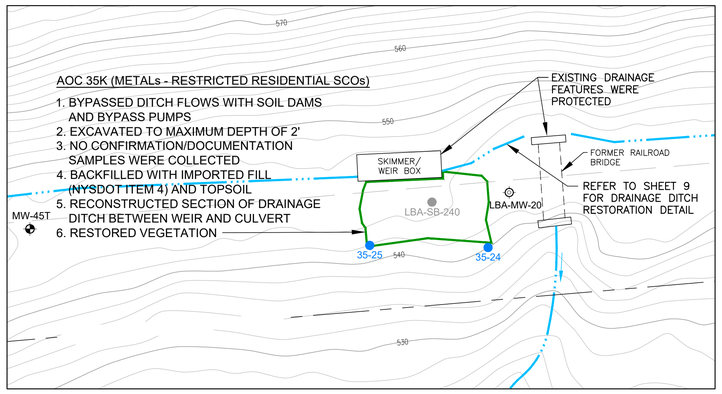
NYSDEC SCOs	RR
PAHs (mg/kg)	
Benzo(a)anthracene	1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1
Benzo(k)fluoranthene	3.9
Chrysene	3.9
Dibenzo(a,h)anthracene	0.33
Indeno(1,2,3-cd)pyrene	0.5
Metals (mg/kg)	
Arsenic	16
Barium	400



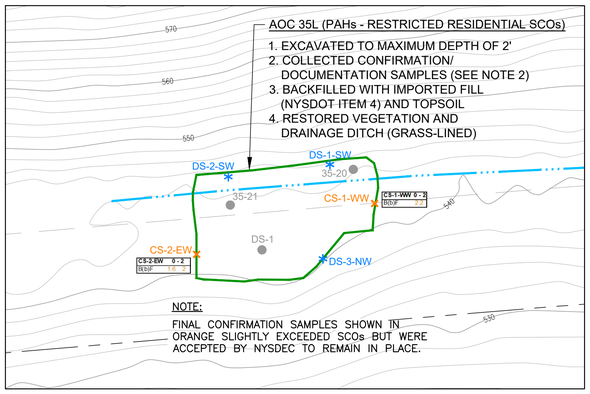
AOC 35H - PARKING LOT 3 (PAHs - RESTRICTED RESIDENTIAL SCOs)



AOC 28 (CVOCs, METALS, AND CYANIDE - PoG AND COMMERCIAL SCOs)



AOC 35K - FORMER RAILWAY RIGHT-OF-WAY/LBA-SB-240 (METALs - RESTRICTED RESIDENTIAL SCOs)



AOC 35L - FORMER RAILWAY RIGHT-OF-WAY/DS-1 (PAHs - RESTRICTED RESIDENTIAL SCOs)

SCALE, FEET

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NOTES:

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2. COMPLIANCE SAMPLES (CONFIRMATION AND DOCUMENTATION) WERE COLLECTED AT A RATE OF 1 SAMPLE PER 30 LINEAR FEET ALONG EXCAVATION SIDE WALLS AND 1 SAMPLE PER 900 SQUARE FEET ALONG THE EXCAVATION BOTTOM WHERE BEDROCK WAS NOT ENCOUNTERED. ADDITIONAL EXCAVATION WAS PERFORMED WHERE SAMPLE RESULTS EXCEEDED APPLICABLE SCOs (SAMPLE SYMBOLS SHOWN IN GRAY). REFER TO TABLES FOR DETAILS OF SCO EXCEEDENCES. CERTAIN HISTORICAL SRI SAMPLE LOCATIONS AND DATA WERE USED AS CONFIRMATION SAMPLES.

3. EXCAVATED SOILS WERE STOCKPILED, CHARACTERIZED, AND DISPOSED OF OFFSITE.

4. EXCAVATED AREAS WERE BACKFILLED WITH IMPORTED FILL TO MATCH THE ORIGINAL GRADES UNLESS OTHERWISE SPECIFIED. A HIGH–VISIBILITY DEMARCATION LAYER (GEOTEX® 401) WAS PLACED WHERE EXCAVATION DID NOT EXTEND TO BEDROCK. DRAINAGE DITCHES WERE RESTORED AS SHOWN ON THE DETAIL ON SHEET 9.

5. PAVEMENTS WERE RESTORED IN KIND UNLESS OTHERWISE SPECIFIED.

6. THE DEPTH OF THE FOOTERS WERE VERIFIED BY HAND–DIGGING WHERE EXCAVATION WAS PLANNED NEAR BUILDING WALLS OR SUPPORT COLUMNS. NO EXCAVATION WAS PERFORMED BELOW THE BOTTOM OF THE BUILDING FOOTERS.

7. EXCAVATION LIMITS AND MOST COMPLIANCE SAMPLE LOCATIONS WERE SURVEYED BEFORE BACKFILLING.

REVISIONS

REV	DESCRIPTION		
1	Revised:	Chkd:	Appr.:
2	Revised:	Chkd:	Appr.:
3	Revised:	Chkd:	Appr.:

SEAL: STATE OF NEW YORK, DAVID A. GREENFIELD, 082680, LICENSED PROFESSIONAL ENGINEER

OCTOBER 23, 2020
DATE

DRAWN BY: RK 10/23/2020
CHECKED: BWK 10/23/2020
APPROVED: SAK 10/23/2020

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AOCs 28, 35A, 35D, 35H, 35K, AND 35L FINAL EXCAVATION LIMITS AND SAMPLE LOCATIONS AND RESULTS

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FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON – ST. LOUIS, MISSOURI

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SHEET 7

Drawing Number
314P1545.001–D176

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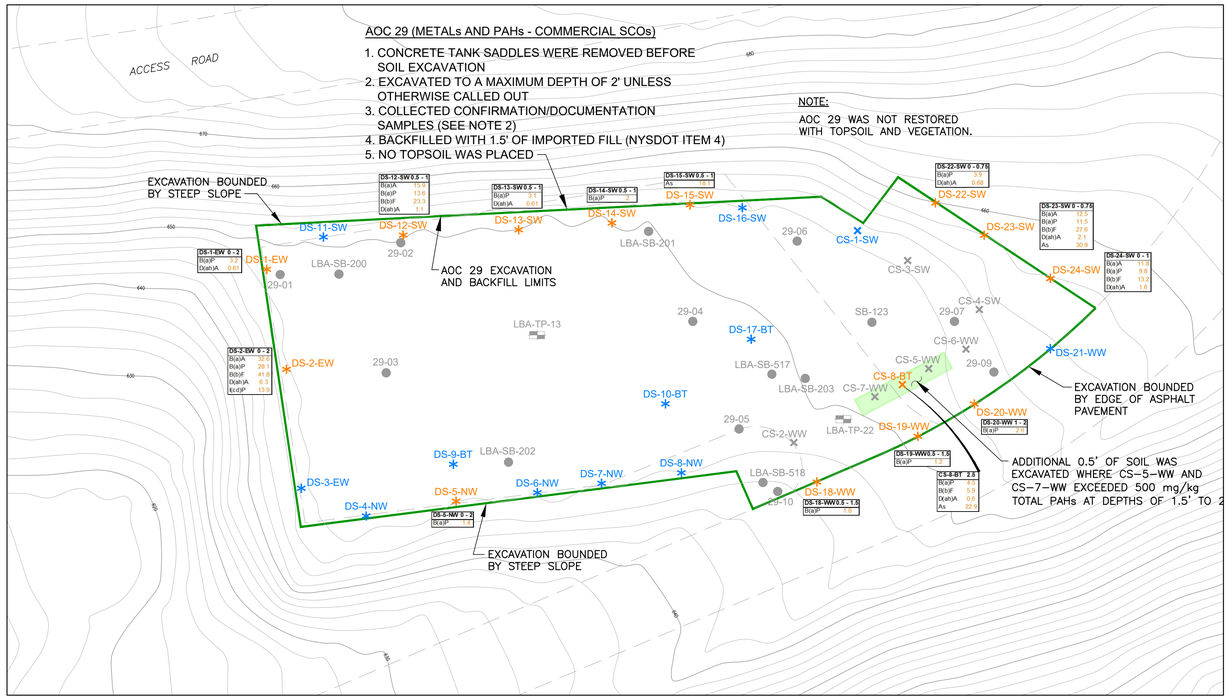
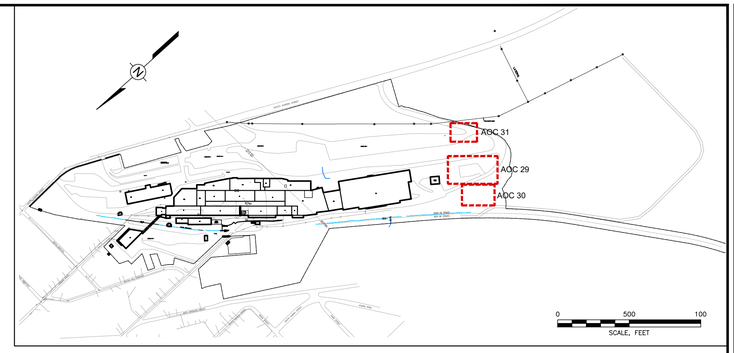


AOC 29 (METALS AND PAHs - COMMERCIAL SCOs)



KEY MAP

NYSDEC SCOs			
	RR	Commercial	Industrial
PAHs (mg/kg)			
Benzo(a)anthracene	1	5.6	11
Benzo(a)pyrene	1	1	1.1
Benzo(b)fluoranthene	1	5.6	11
Dibenzo(a,h)anthracene	0.33	0.56	1.1
Indeno(1,2,3-cd)pyrene	0.5	5.6	11
Metals (mg/kg)			
Arsenic	16	16	16
Barium	400	400	10,000
Chromium	180	1,500	6,800
Copper	270	270	10,000
Nickel	310	310	10,000

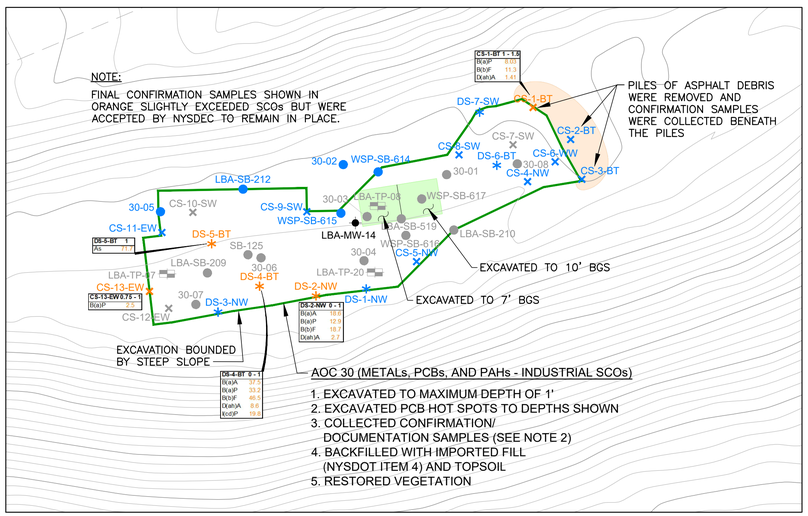
LEGEND

- DOCUMENTATION SAMPLE
- CONFIRMATION SAMPLE
- SOIL BORING
- TEST PIT
  - ORANGE INDICATES SAMPLE RESULTS >SCOs
  - BLUE INDICATES SAMPLE RESULTS <SCOs
  - GRAY INDICATES EXCAVATED SAMPLE OR ABANDONED WELL
- A/B HYDROGEOLOGIC ZONES
- B HYDROGEOLOGIC ZONE
- B/C HYDROGEOLOGIC ZONES
- C HYDROGEOLOGIC ZONE
- FINAL EXTENT OF SOIL EXCAVATION

DS-13-SW 0.5 - 1
B(a)P 3.1
D(ah)A 0.61

- SAMPLE DESIGNATION
- SAMPLE DEPTH IN FT-BGS
- SAMPLE RESULTS IN mg/kg
- CONSTITUENTS

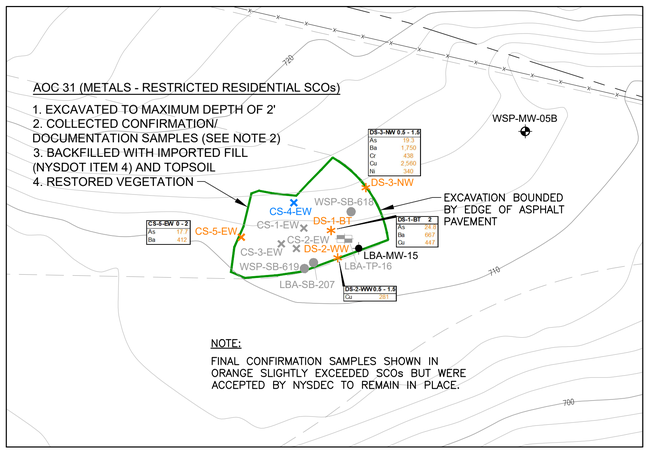
As	ARSENIC
Ba	BARIUM
Cr	CHROMIUM
Cu	COPPER
Ni	NICKEL
B(a)A	BENZO(a)ANTHRACENE
B(a)P	BENZO(a)PYRENE
B(b)F	BENZO(b)FLUORANTHENE
D(ah)A	DIBENZO(a,h)ANTHRACENE
I(cd)P	INDENO(1,2,3-cd)PYRENE



AOC 30 (METALs, PCBs, AND PAHs - INDUSTRIAL SCOs)

1. EXCAVATED TO MAXIMUM DEPTH OF 1'
2. EXCAVATED PCB HOT SPOTS TO DEPTHS SHOWN
3. COLLECTED CONFIRMATION/ DOCUMENTATION SAMPLES (SEE NOTE 2)
4. BACKFILLED WITH IMPORTED FILL (NYSDOT ITEM 4) AND TOPSOIL
5. RESTORED VEGETATION

AOC 30 (METALs, PCBs, AND PAHs - INDUSTRIAL SCOs)



AOC 31 - UPPER PARKING LOT 6 (METALs - RESTRICTED RESIDENTIAL SCOs)

NOTES:

1. PUBLIC AND PRIVATE UTILITY SURVEYS WERE CONDUCTED IN ALL EXCAVATION AREAS. IDENTIFIED UTILITIES WERE MARKED AND PROTECTED THROUGHOUT THE WORK UNLESS OTHERWISE SHOWN AS BEING REMOVED. UTILITIES MAY HAVE BEEN TEMPORARILY DE-ENERGIZED, REMOVED, AND REPLACED IN ACCORDANCE WITH SERVICE PROVIDERS' PROCEDURES.

2. COMPLIANCE SAMPLES (CONFIRMATION AND DOCUMENTATION) WERE COLLECTED AT A RATE OF 1 SAMPLE PER 30 LINEAR FEET ALONG EXCAVATION SIDE WALLS AND 1 SAMPLE PER 900 SQUARE FEET ALONG THE EXCAVATION BOTTOM WHERE BEDROCK WAS NOT ENCOUNTERED. ADDITIONAL EXCAVATION WAS PERFORMED WHERE SAMPLE RESULTS EXCEEDED APPLICABLE SCOs (SAMPLE SYMBOLS SHOWN IN GRAY). REFER TO TABLES FOR DETAILS OF SCO EXCEEDENCES. CERTAIN HISTORICAL SRI SAMPLE LOCATIONS AND DATA WERE USED AS CONFIRMATION SAMPLES.

3. EXCAVATED SOILS WERE STOCKPILED, CHARACTERIZED, AND DISPOSED OF OFFSITE.

4. EXCAVATED AREAS WERE BACKFILLED WITH IMPORTED FILL TO MATCH THE ORIGINAL GRADES UNLESS OTHERWISE SPECIFIED. A HIGH-VISIBILITY DEMARCATION LAYER (GEOTEX® 401) WAS PLACED WHERE EXCAVATION DID NOT EXTEND TO BEDROCK.

5. EXCAVATION LIMITS AND MOST COMPLIANCE SAMPLE LOCATIONS WERE SURVEYED BEFORE BACKFILLING.

20 10 0 20 40
SCALE, FEET

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REVISIONS

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1	Revised: Chkd: Appr.:
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3	Revised: Chkd: Appr.:

SEAL: STATE OF NEW YORK, DAVID ALAN KRASKEWICZ, 082660, LICENSED PROFESSIONAL ENGINEER — OCTOBER 23, 2020

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AOCs 29, 30, AND 31 FINAL EXCAVATION LIMITS AND SAMPLE LOCATIONS AND RESULTS

IRM CONSTRUCTION COMPLETION REPORT
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON – ST. LOUIS, MISSOURI

WSP USA Inc.
13530 DULLES TECHNOLOGY DR., SUITE 300
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TEL: +1 703.709.6500

SHEET 8

Drawing Number
314P1545.001-D177

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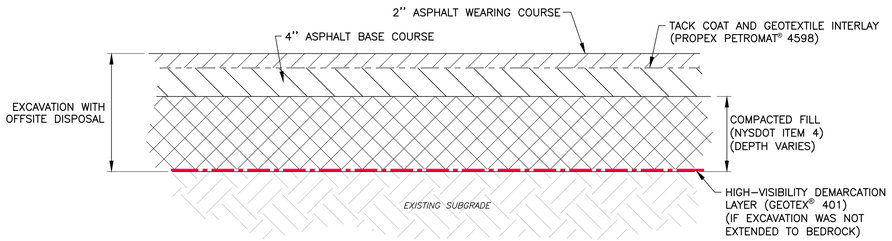
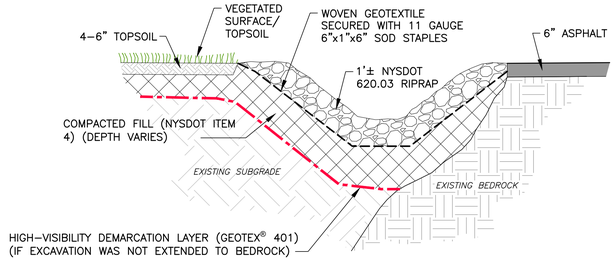


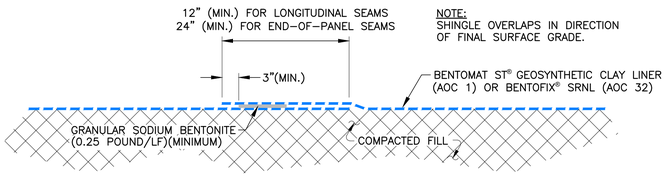
TYPICAL ASPHALT RESTORATION DETAIL

NOT TO SCALE



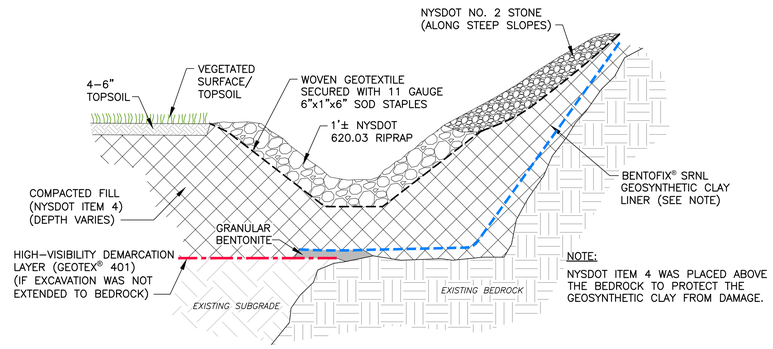
TYPICAL DRAINAGE DITCH RESTORATION CROSS SECTION DETAIL

NOT TO SCALE



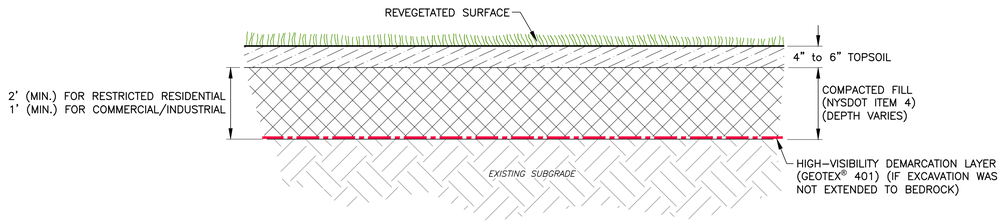
GEOSYNTHETIC CLAY LINER OVERLAP DETAIL

NOT TO SCALE



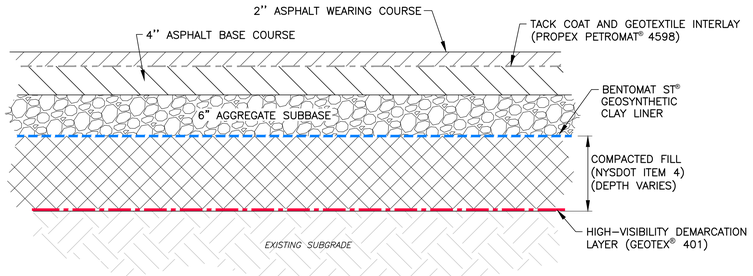
AOC 32/35G DRAINAGE DITCH (LOWER) RESTORATION CROSS SECTION DETAIL

NOT TO SCALE



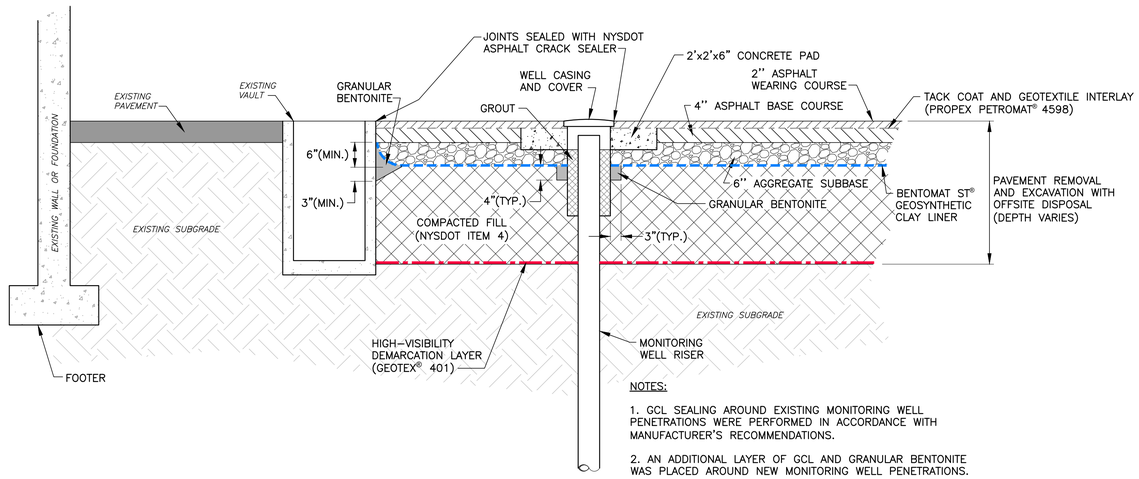
TYPICAL SOIL COVER DETAIL

NOT TO SCALE



GCL/ASPHALT CAP DETAIL

NOT TO SCALE



TYPICAL MONITORING WELL PENETRATION AND UTILITY VAULT TERMINATION DETAIL (AOC 1)

NOT TO SCALE

D

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SEAL

STATE OF NEW YORK · DAVID ALAN KRAGENFELT · 082660 · LICENSED PROFESSIONAL ENGINEER

OCTOBER 23, 2020
DATE

DRAWN BY: RK 09/21/20
CHECKED: SAR 09/21/20
APPROVED: SAR 09/21/20

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DETAILS AND SECTIONS

IRM CONSTRUCTION COMPLETION REPORT
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON – ST. LOUIS, MISSOURI

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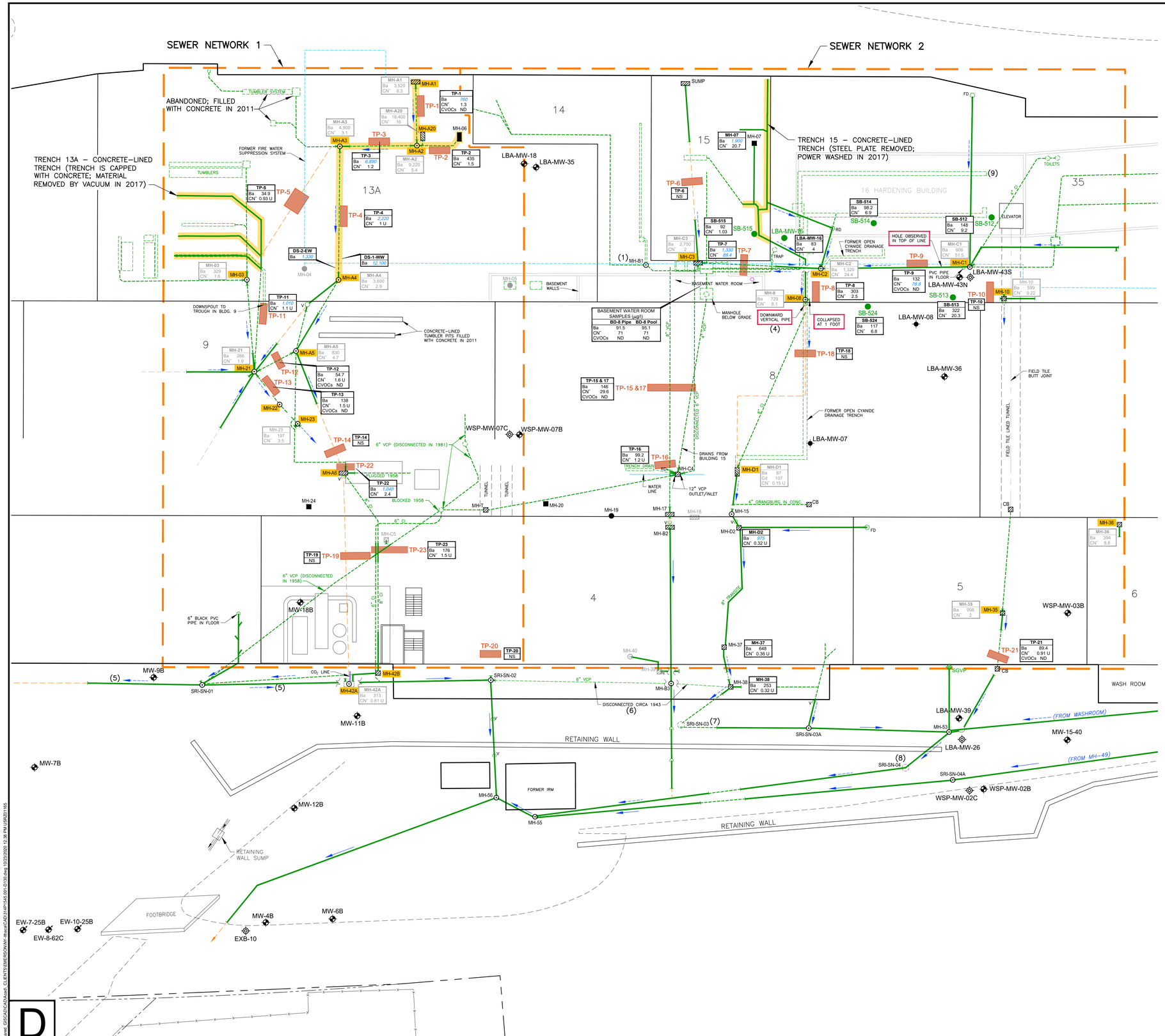

LEGEND

- A/B HYDROGEOLOGIC ZONES
- B HYDROGEOLOGIC ZONE
- B/C HYDROGEOLOGIC ZONES
- C HYDROGEOLOGIC ZONE
- EXTRACTION WELL
- SOIL BORING
- TEST PIT
- PIPE TRENCH EXCAVATION/CLEANOUT AREA
- MH-D2 SANITARY MANHOLE/MANWAY
- MH-C1 CLEANED SANITARY MANHOLE/MANWAY
- NON–SANITARY MANHOLE/MANWAY
- SEALED MANHOLE/MANWAY
- VIDEO SURVEYED SEWER LINES
- SEWER LINES BASED ON FACILITY DRAWINGS
- INDICATES PREVIOUS INTERPRETATION
- OBSERVED DIRECTION OF FLOW
- PRESUMED DIRECTION OF FLOW (REFER TO NOTE 2)
- FD FLOOR DRAIN/ROOF DRAIN
- SGVP SEWER GAS VENT
- CB CATCH BASIN
- 34 BUILDING NUMBER
- PROPERTY BOUNDARY
- MH-35 Ba 998 CN⁻ 2 MANHOLE CONTENTS REMOVED
- TP-4 Ba 2,220 CN⁻ 1 U SAMPLE DESIGNATION
- TEST PIT SAMPLE RESULTS IN mg/kg. *BLUE ITALIC* INDICATES EXCEEDENCE OF PoG SCO

SCOs (mg/kg)	PoG
BARIUM	820
CYANIDE	40

mg/kg	MILLIGRAMS PER KILOGRAM
Ba	BARIUM
Cd	CADMIUM
CN⁻	CYANIDE
CVOCs	CHLORINATED VOLATILE ORGANIC COMPOUNDS
ND	NOT DETECTED

NOTES:

1. ALL TEST PIT SAMPLES WERE COLLECTED BELOW THE LINE'S INVERT ELEVATION AND ANALYZED FOR BARIUM AND CYANIDE.

2. THE PRESUMED DIRECTIONS OF FLOW ARE BASED ON THE INVERT ELEVATIONS OF THE PIPES OBSERVED IN EACH OF THE MANHOLES.

3. MH–B1 INCLUDES TWO HORIZONTAL 4–INCH DIAMETER PIPES (PVC AND CAST IRON) THAT ARE CAPPED. THE LINES WERE EXPOSED WHEN THE ASSOCIATED MANHOLE AND ADJACENT CONCRETE FLOOR WERE REMOVED.

4. THE VERTICAL PIPE EXTENDS TO 10 FEET; THE LINE IS THEN OPEN TO BEDROCK, BUT COLLAPSED AT 14 FEET.

5. THE INVERT ELEVATIONS INDICATE TYPICAL FLOW TO THE NORTHEAST (TOWARD MH–48) AND OVERFLOW TO THE SOUTHWEST (TOWARD SRI–SN–02).

6. THE PIPE WHICH CONVEYED MATERIAL FROM MH–38 TO MH–B3 AND FROM MH–B3 TO SRI–SN–02 WAS DISCONNECTED CIRCA 1943. THE FLOW WAS THEN DIRECTED TO SRI–SN–03.

7. MH–B3 VIDEO SURVEY INDICATED A POTENTIAL BREAK IN THE PIPE BETWEEN 17 AND 20 FEET WHICH ROUGHLY COINCIDES WITH THE SRI–SN–03 VAULT SHOWN ON HISTORICAL DRAWINGS, BUT WHICH WAS NOT LOCATED IN THE FIELD. THE LOCATION SHOWN WAS NOT SURVEYED AND IS, THEREFORE, APPROXIMATE.

8. SRI–SN–04 COULD NOT BE LOCATED AT THE GROUND SURFACE. DURING THE VIDEO SCOPING OF MH–53, A BRICK–LINED VAULT, WHICH IS NOW OVERLAIN BY A CONCRETE PAD, WAS OBSERVED AT THE APPROXIMATE LOCATION OF SRI–SN–04. THE LOCATION SHOWN WAS NOT SURVEYED AND IS, THEREFORE, APPROXIMATE.

9. THESE DASHED LINES REFLECT THE LIMITS OF AN OPEN (TRENCH) OR CLOSED (PIPE) DRAIN SYSTEM USED FROM CIRCA 1917 TO CIRCA 1970.

10. SEE IRM CONSTRUCTION COMPLETION REPORT FOR TEST PIT AND PIPE TRENCH BACKFILL AND RESTORATION DETAILS.

20 10 0 20 40
SCALE, FEET

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REVISIONS

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1	Revised:	Chkd:	Appr.:
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3	Revised:	Chkd:	Appr.:

SEAL: STATE OF NEW YORK · DAVID A. KRASKEVICH · 082680 · LICENSED PROFESSIONAL ENGINEER

OCTOBER 23, 2020
DATE

DRAWN BY: RK 09/17/20
CHECKED: SKA 09/17/20
APPROVED: SKA 09/17/20

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SANITARY SEWER EVALUATION RESULTS

IRM CONSTRUCTION COMPLETION REPORT
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON – ST. LOUIS, MISSOURI

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SHEET 10

Drawing Number
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TABLES

Table 1

AOC 1 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:			**SB-AOC1-21**	**SB-AOC1-24**	**SB-AOC1-27**	**CS-1-WW**	**CS-2-EW**	**CS-3-NW**	**CS-4-SW**	**CS-5-BT**	**CS-6-EW**	**CS-7-WW (e)**	**CS-8-SW**	**CS-9-BT**	**DS-1-BT**	**CS-10-SW**	**CS-11-NW**	**CS-12-BT**	**CS-13-WW**	**DS-2-BT**	**CS-14-WW**
Sample Depth (ft-bgs):			**2-2.17**	**1-1.17**	**0.67-0.84**	**2.5**	**2.5**	**2**	**2**	**3**	**1.5**	**1**	**2.5**	**3**	**7**	**2.5**	**2.5**	**3**	**2.5**	**2.75**	**2**
PID (ppm):			**-**	**-**	**-**	**0.1**	**0.7**	**0.8**	**0.4**	**0.3**	**0.8**	**7.8**	**0**	**-**	**-**	**1.5**	**1.5**	**6.7**	**1.9**	**87.7**	**1.5**
Sample Date:			**08/06/15**	**08/05/15**	**08/06/15**	**10/17/18**	**10/17/18**	**10/17/18**	**10/17/18**	**10/17/18**	**10/17/18**	**10/17/18**	**10/17/18**	**10/17/18**	**10/17/18**	**10/18/18**	**10/18/18**	**10/18/18**	**10/18/18**	**10/18/18**	**10/23/18**
	SCOs (b)																				
	RR	**PoG**																			
CVOCs (mg/kg)																					
1,1,1-Trichloroethane	100	0.68	0.005 U(d)	0.0062 UJ	0.006 U	0.003 U	0.0027 U	0.0022 U	0.0026 U	0.0017 U	0.0017 J	0.0031 U	0.0021 U	0.0017 U	0.0024 U	0.0022 U	0.002 U	0.0022 U	0.132 J	0.0021 U	0.00094 J
1,1-Dichloroethene	100	0.33	0.005 U	0.0062 UJ	0.006 U	0.0015 U	0.0014 U	0.0011 U	0.0013 U	0.00083 U	0.0011 U	0.0015 U	0.001 U	0.00087 U	0.0012 U	0.0011 U	0.001 U	0.0011 U	0.07 U	0.0011 U	0.0012 U
1,2-Dichloroethane	3.1	0.02	0.005 U	0.0062 UJ	0.006 U	0.0015 U	0.0014 U	0.0011 U	0.0013 U	0.00083 U	0.0011 U	0.0015 U	0.001 U	0.00087 U	0.0012 U	0.0011 U	0.001 U	0.0011 U	0.07 U	0.0011 U	0.0012 U
cis-1,2-Dichloroethene	100	0.25	0.005 U	0.0062 UJ	0.006 U	0.0086	0.0014 U	0.0038	0.0013 U	0.00083 U	0.0029	0.0015 U	0.0013	0.00087 U	0.0012 U	0.0019	0.001 U	0.0017	0.163	0.0027	0.0017
Tetrachloroethene	19	1.3	0.005 U	0.0023 J	0.0027 J	0.0275	0.0027 U	0.0074	0.0024 J	0.0017 U	0.0228	0.0052	0.0052	0.00076 J	0.0013 J	0.0091	0.0036	0.0135	***6.67***	0.0016 J	0.0721
trans-1,2-Dichloroethene	100	0.19	0.005 U	0.0062 UJ	0.006 U	0.0015 U	0.0014 U	0.0011 U	0.0013 U	0.00083 U	0.0011 U	0.0015 U	0.001 U	0.00087 U	0.0012 U	0.0011 U	0.001 U	0.0011 U	0.07 U	0.0011 U	0.0012 U
Trichloroethene	21	0.47	0.005 U	0.013 J	0.0079	0.241	0.0043	0.108	0.0221	0.0044	***82.6***	0.0372	0.0874	0.0192	0.0031	0.0991	0.0327	0.132	***24.8***	***58.2***	0.188
Vinyl chloride	0.9	0.02	0.005 U	0.0062 UJ	0.006 U	0.003 U	0.0027 U	0.0022 U	0.0026 U	0.0017 U	0.0021 U	0.0031 U	0.0021 U	0.0017 U	0.0024 U	0.0022 U	0.002 U	0.0022 U	0.14 U	0.0021 U	0.0023 U

Sample Location:			**CS-15-SW**	**DS-3-BT**	**DS-4-BT**	**CS-16-SW**	**CS-1600-SW (D)**
Sample Depth (ft-bgs):			**1**	**3**	**3**	**1.5**	**1.5**
PID (ppm):			**0.6**	**2.4**	**2.4**	**0**	**0**
Sample Date:			**10/26/18**	**10/26/18**	**10/26/18**	**10/29/18**	**10/29/18**
	SCOs (b)						
	RR	**PoG**					
CVOCs (mg/kg)							
1,1,1-Trichloroethane	100	0.68	0.0017 U	0.0019 U	0.0023 U	0.002 U	0.0019 U
1,1-Dichloroethene	100	0.33	0.00086 U	0.00096 U	0.0012 U	0.001 U	0.00096 U
1,2-Dichloroethane	3.1	0.02	0.00086 U	0.00096 U	0.0012 U	0.001 U	0.00096 U
cis-1,2-Dichloroethene	100	0.25	0.0013	0.0015	0.0011 J	0.001 U	0.00096 U
Tetrachloroethene	19	1.3	0.0015 J	0.00076 J	0.0068	0.002 U	0.00052 J
trans-1,2-Dichloroethene	100	0.19	0.00086 U	0.00096 U	0.0012 U	0.001 U	0.00096 U
Trichloroethene	21	0.47	0.0304	0.0975	***20.5***	0.0044	0.0051
Vinyl chloride	0.9	0.02	0.0017 U	0.0019 U	0.0023 U	0.002 U	0.0019 U

a/ ft-bgs = feet below ground surface; PID = photoionization detector; ppm = parts per million; SCOs = soil cleanup objectives; RR = restricted residential; PoG = protection of groundwater; CVOCs = chlorinated volatile organic compounds; mg/kg = milligrams per kilogram; D = duplicate of previous sample; "-" = not analyzed, not applicable or not available.
b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
c/ Sample collected from north wall.
d/ Data Qualifiers:
U = not detected
J = estimated concentration above the method detection limit, but below the reporting limit

Boxed value exceeds RR
Bold italic value exceeds PoG
Gray shading indicates soil was removed

Table 2

AOC 26 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:	SCOs (b) RR	SCOs (b) PoG	26-01 (d)	26-02 (d)	CS-1-EW (d)	CS-1-EW	CS-2-NW	CS-3-NW	CS-4-NW	DS-1-BT	PIPE1	CS-5-BT	CS-6-BT	CS-100-BT	CS-7-BT	CS-8-BT	CS-9-BT	CS-10-WW	DS-2-NW	DS-3-NW	DS-4-NW	DITCH	PIPE2	CS-11-EW	CS-12-WW
Sample Depth (ft-bgs):			0 - 2	0 - 2	1.25	1	0.75	2.5	1.5	3	-	3.25	4	4	3	3	3.5	0.75	1.5	2	1	-	-	3	0.5
PID (ppm):			-	-	0.3	0	0	0	0	-	48	0	0	0	0	0	0	0	0	0	0.5	475	220	-	-
Sample Date:			12/03/15	12/03/15	12/06/18	05/30/19	05/30/19	05/30/19	05/30/19	05/30/19	05/30/19	05/31/19	05/31/19	05/31/19	05/31/19	05/31/19	06/03/19	06/03/19	06/03/19	06/03/19	06/03/19	06/05/19	06/06/19	06/06/19	06/07/19
CVOCs (mg/kg)																									
1,1,1-Trichloroethane	100	0.68	0.0017 U(e)	0.0016 U	0.0049 U	0.0055 U	0.0048 U	0.005 U	0.0057 U	0.0054 U	0.01 U	0.0047 U	0.0052 U	0.0059 U	0.0059 U	0.0042 U	0.0048 U	0.0056 U	0.0048 U	0.0049 U	0.0056 U	0.0051 U	0.006 U	0.0058 U	0.0048 U
1,1-Dichloroethene	100	0.33	0.0017 U	0.0016 U	0.0049 U	0.0055 U	0.0048 U	0.005 U	0.0057 U	0.0054 U	0.01 U	0.0047 U	0.0052 U	0.0059 U	0.0059 U	0.0042 U	0.0048 U	0.0056 U	0.0048 U	0.0049 U	0.0056 U	0.0051 U	0.006 U	0.0058 U	0.0048 U
1,2-Dichloroethane	3.1	0.02	0.0017 U	0.0016 U	0.0049 U	0.0055 U	0.0048 U	0.005 U	0.0057 U	0.0054 U	0.01 U	0.0047 U	0.0052 U	0.0059 U	0.0059 U	0.0042 U	0.0048 U	0.0056 U	0.0048 U	0.0049 U	0.0056 U	0.0051 U	0.006 U	0.0058 U	0.0048 U
cis-1,2-Dichloroethene	100	0.25	0.00081 J	0.0016 U	0.0049 U	0.0055 U	0.0048 U	0.005 U	0.0057 U	0.014	0.015	0.0047 U	0.0077	0.012	0.0059 U	0.0046	0.0048 U	0.0056 U	0.0048 U	0.0049 U	0.0056 U	0.0051 U	0.006 U	0.0058 U	0.0065
Tetrachloroethene	19	1.3	0.0017 U	0.0016 U	0.0049 U	0.0055 U	0.0048 U	0.005 U	0.0057 U	0.0054 U	0.01 U	0.0047 U	0.0052 U	0.0059 U	0.0059 U	0.0042 U	0.0048 U	0.0056 U	0.0048 U	0.0049 U	0.0056 U	0.0051 U	0.006 U	0.0058 U	0.0048 U
trans-1,2-Dichloroethene	100	0.19	0.0017 U	0.0016 U	0.0049 U	0.0055 U	0.0048 U	0.005 U	0.0057 U	0.0054 U	0.01 U	0.0047 U	0.0052 U	0.0059 U	0.0059 U	0.0042 U	0.0048 U	0.0056 U	0.0048 U	0.0049 U	0.0056 U	0.0051 U	0.006 U	0.0058 U	0.0048 U
Trichloroethene	21	0.47	0.0114	0.0029	0.0049 U	0.0055 U	0.0048 U	0.012	0.034	0.024	0.041	0.025	0.027	0.039	0.058	0.083	0.0048 U	0.0056 U	0.015	0.0049 U	0.0056 U	0.0051 U	0.006 U	0.043	0.031
Vinyl chloride	0.9	0.02	0.0017 U	0.0016 U	0.0049 U	0.0055 U	0.0048 U	0.005 U	0.0057 U	0.0054 U	0.01 U	0.0047 U	0.0052 U	0.0059 U	0.0059 U	0.0042 U	0.0048 U	0.0056 U	0.0048 U	0.0049 U	0.0056 U	0.0051 U	0.006 U	0.0058 U	0.0048 U
PCBs (mg/kg)																									
Aroclor 1016	-	-	-	-	-	-	-	-	-	0.02 U	0.76 U	-	-	-	-	-	-	-	-	-	-	1.8 U	0.11 U	-	-
Aroclor 1221	-	-	-	-	-	-	-	-	-	0.02 U	0.76 U	-	-	-	-	-	-	-	-	-	-	1.8 U	0.11 U	-	-
Aroclor 1232	-	-	-	-	-	-	-	-	-	0.02 U	0.76 U	-	-	-	-	-	-	-	-	-	-	1.8 U	0.11 U	-	-
Aroclor 1242	-	-	-	-	-	-	-	-	-	0.02 U	0.76 U	-	-	-	-	-	-	-	-	-	-	1.8 U	0.11 U	-	-
Aroclor 1248	-	-	-	-	-	-	-	-	-	0.02 U	0.76 U	-	-	-	-	-	-	-	-	-	-	1.8 U	0.11 U	-	-
Aroclor 1254	-	-	-	-	-	-	-	-	-	0.02 U	6.4	-	-	-	-	-	-	-	-	-	-	1.9	0.6	-	-
Aroclor 1260	-	-	-	-	-	-	-	-	-	0.0 U	0.8 U	-	-	-	-	-	-	-	-	-	-	1.8 U	0.1 U	-	-
Total PCBs	1	-	-	-	-	-	-	-	-	0.02 U	6.4	-	-	-	-	-	-	-	-	-	-	1.9	0.6	-	-
PAHs (mg/kg)																									
Acenaphthene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.057	-	-
Acenaphthylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33	0.032	-	-
Anthracene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.72	0.092	-	-
Benzo(a)anthracene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	0.15	-	-
Benzo(a)pyrene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	0.11	-	-
Benzo(b)fluoranthene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3	0.24	-	-
Benzo(g,h,i)perylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.81	0.038	-	-
Benzo(k)fluoranthene	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	0.21	-	-
Chrysene	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	0.24	-	-
Dibenzo(a,h)anthracene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33	0.011	-	-
Fluoranthene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	0.27	-	-
Fluorene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39	0.023	-	-
Indeno(1,2,3-cd)pyrene	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.87	0.038	-	-
Naphthalene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	0.035	-	-
Phenanthrene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	0.054	-	-
Pyrene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.6	0.29	-	-
Total PAHs	500 (e)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.63	1.674	-	-

a/ ft-bgs = feet below ground surface; PID = photoionization detector; ppm = parts per million; SCOs = soil cleanup objectives; RR = restricted residential; PoG = protection of groundwater;
mg/kg = milligrams per kilogram; CVOCs = chlorinated volatile organic compounds; PCBs = polychlorinated biphenyls; PAHs = polycyclic aromatic hydrocarbons; "-" = not analyzed, not applicable or not available.
b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
c/ New York State Department of Environmental Conservation Final Commissioner Policy (CP-51). Subsurface Soil Cleanup for Total PAHs. October 21, 2010.
The policy established an alternative cleanup level of 500 mg/kg total PAHs for non-residential sites; total PAHs are the sum of the individual PAHs.
d/ Sample collected inside building.
e/ Data Qualifiers:
U = not detected

Boxed value exceeds RR
Bold italic value exceeds PoG
Gray shading indicates soil was removed

Table 3

AOC 27 Weathered Bedrock and Concrete Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:			DS-1	DS-2	Concrete-1	Concrete-2	Concrete-3	Concrete-4	Concrete-5	Concrete-6	Concrete-7	Concrete-8
Sample Date:			01/18/19	01/18/19	04/03/19	04/03/19	04/03/19	04/03/19	04/03/19	04/03/19	04/03/19	04/03/19
	SCOs (b) RR	SCOs (b) PoG										
Barium (mg/kg)	400	820	***42,800***	***5,100***	***1,830***	278	***5,650***	***6,330***	***10,700***	***4,790***	***4,180***	***2,770***
Cyanide (mg/kg)	27	40	1.1 U(c)	0.95 U	-	-	-	-	-	-	-	-
XRF (mg/kg)												
Barium			-	-	8,025± 262	2,316 ± 147	100,000	1,954 ± 196	100,000	10,600 ± 1,000	36,000 ± 500	21,500 ± 1,000

Sample Location:			Concrete-9	Concrete-10	Concrete-11	Concrete-12
Sample Date:			04/03/19	04/03/19	04/03/19	04/03/19
	SCOs (b) RR	SCOs (b) PoG				
Barium (mg/kg)	400	820	558	***6,450***	***1,950***	***9,490***
Cyanide (mg/kg)			-	-	-	-
XRF (mg/kg)						
Barium			3,159 ± 185	1,370 ± 142	27,300 ± 1,000	80,300 ± 1,100

a/ SCOs = soil cleanup objectives; RR = restricted residential; PoG = protection of groundwater; mg/kg = milligrams per kilogram; XRF = X-ray fluorescence.
b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
c/ Data Qualifiers:
U = not detected

Boxed value exceeds RR
Bold italic value exceeds PoG
Gray shading indicates soil was removed

Table 4

AOC 28 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:	SCOs (b)		28-03			CS-1-NW	CS-2-EW	CS-200-EW (D	CS-3-SW	CS-4-BT	CS-5-SW	CS-6-SW	CS-7-EW	CS-8-BT	CS-10-BT	CS-11-BT	DS-1-WW	DS-2-WW	CS-9-BT	CS-12-BT	CS-13-EW	CS-14-WW	CS-15-NW
Sample Depth (ft-bgs or ft-msl):			0-0.17	1.4	2.8	0.25	0.25	0.25	0.25	0.75	613.25	613.25	608	605	604	605	609	610	605	601	602	605	603
PID (ppm):			-	-	-	5.3	0.8	0.8	0	0	0.2	0.2	0.2	0.6	1.6	1.5	0.2	0.1	0	0.3	0.1	0.2	0.2
Sample Date:			11/18/15	11/18/15	11/18/15	10/24/18	10/24/18	10/24/18	10/24/18	10/24/18	10/24/18	10/24/18	10/25/18	10/25/18	10/25/18	10/25/18	10/25/18	10/25/18	10/26/18	10/26/18	10/26/18	10/26/18	10/26/18
	Comm	PoG																					
CVOCs (mg/kg)																							
1,1,1-Trichloroethane	500	0.68	0.112 J(d)	0.0019 U	0.0031 U	0.0016 U	0.0017 U	0.0017 U	0.002 U	0.0017 U	0.0025 U	0.0026 U	0.0026 U	0.0027 U	0.0027 U	0.0018 U	0.0025 U	0.0029 U	0.0018 U	0.0025 U	0.0025 U	0.0025 U	0.0024 U
1,1-Dichloroethene	500	0.33	0.24 U	0.0019 U	0.0031 U	0.0008 U	0.00084 U	0.00084 U	0.001 U	0.00086 U	0.0012 U	0.0013 U	0.0013 U	0.0014 U	0.0014 U	0.0009 U	0.0012 U	0.0014 U	0.0009 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
1,2-Dichloroethane	30	0.02	0.24 U	0.0019 U	0.0031 U	0.0008 U	0.00084 U	0.00084 U	0.001 U	0.00086 U	0.0012 U	0.0013 U	0.0013 U	0.0014 U	0.0014 U	0.0009 U	0.0012 U	0.0014 U	0.0009 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
cis-1,2-Dichloroethene	500	0.25	0.24 U	0.0019 U	0.0045	0.0008 U	0.00084 U	0.00084 U	0.001 U	0.00086 U	0.0012 U	0.0013 U	0.0013 U	0.0014 U	0.0014 U	0.0009 U	0.0012 U	0.0014 U	0.0009 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Tetrachloroethene	150	1.3	0.13 J	0.0028	0.0215	0.0339	0.0033	0.0026	0.002 U	0.0016 J	0.0025 U	0.0026 U	0.0023 J	0.0027 U	0.0014 J	0.0018 U	0.0025	0.0061	0.0018 U	0.0017 J	0.0014 J	0.0012 J	0.0022 J
trans-1,2-Dichloroethene	500	0.19	0.24 U	0.0019 U	0.0031 U	0.0008 U	0.00084 U	0.00084 U	0.001 U	0.00086 U	0.0012 U	0.0013 U	0.0013 U	0.0014 U	0.0014 U	0.0009 U	0.0012 U	0.0014 U	0.0009 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Trichloroethene	200	0.47	0.435	0.0059	0.0587	0.0018	0.00078 J	0.00084 U	0.001 U	0.00086 U	0.0012 U	0.0013 U	0.013	0.0014 U	0.0065	0.00075 J	0.0079	0.0014 U	0.0009 U	0.006	0.008	0.0058	0.0083
Vinyl chloride	13	0.02	0.24 U	0.0019 U	0.0031 U	0.0016 U	0.0017 U	0.0017 U	0.002 U	0.0017 U	0.0025 U	0.0026 U	0.0026 U	0.0027 U	0.0027 U	0.0018 U	0.0025 U	0.0029 U	0.0018 U	0.0025 U	0.0025 U	0.0025 U	0.0024 U
PAHs (mg/kg)																							
Anthracene	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracen	0.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PAHs	500 (e)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs (mg/kg)																							
Aroclor 1260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1248	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (mg/kg)																							
Arsenic	16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	400	820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	9.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	1,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	1,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	1,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (mg/kg)	27	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Boxed value exceeds Comm
Bold italic value exceeds PoG
Gray shading indicates soil was removed

Table 4

AOC 28 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

	SCOs (b)																
Sample Location:			**M1-102918**	**M2-102918**	**M3-102918**	**M4-102918**	**S-1-EW**	**S-2-BT**	**S-3-WW**	**S-4-BT**	**S-5-WW**	**S-6-WW**	**S-7-BT**	**S-8-NW**	**S-9-EW**	**S-10-BT**	**CS-16-BT**
Sample Depth (ft-bgs or ft-msl):			**- (e)**	**- (e)**	**- (e)**	**- (e)**	**607 - 609**	**605**	**606 - 608**	**605**	**602 - 604**	**604 - 606**	**601**	**602 - 604**	**601 - 603**	**601**	**600**
PID (ppm):			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample Date:			**10/29/18**	**10/29/18**	**10/29/18**	**10/29/18**	**11/06/18**	**11/06/18**	**11/06/18**	**11/06/18**	**11/06/18**	**11/06/18**	**11/06/18**	**11/06/18**	**11/06/18**	**11/06/18**	**11/14/18**
	Comm	**PoG**															
CVOCs (mg/kg)																	
1,1,1-Trichloroethane	500	0.68	0.0021 U	0.0031 U	0.0022 U	0.002 U	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	500	0.33	0.001 U	0.0016 U	0.0011 U	0.00099 U	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	30	0.02	0.001 U	0.0016 U	0.0011 U	0.00099 U	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	500	0.25	0.001 U	0.0016 U	0.0011 U	0.00099 U	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	150	1.3	0.0021 U	0.0031 U	0.0022 U	0.0032	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	500	0.19	0.001 U	0.0016 U	0.0011 U	0.00099 U	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	200	0.47	0.001 U	0.0016 U	0.0011 U	0.0119	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	13	0.02	0.0021 U	0.0031 U	0.0022 U	0.002 U	-	-	-	-	-	-	-	-	-	-	-
PAHs (mg/kg)																	
Anthracene	500	-	0.038 U	0.041 U	0.039 U	0.038 U	-	-	-	-	-	-	-	-	-	-	-
Pyrene	500	-	0.038 U	0.041 U	0.039 U	0.038 U	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	500	-	0.038 U	0.041 U	0.039 U	0.038 U	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-	5.6	-	0.038 U	0.041 U	0.039 U	0.038 U	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	5.6	-	0.038 U	0.041 U	0.039 U	0.038 U	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	500	-	0.038 U	0.041 U	0.039 U	0.038 U	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	56	-	0.038 U	0.041 U	0.039 U	0.038 U	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	500	-	0.038 U	0.041 U	0.039 U	0.038 U	-	-	-	-	-	-	-	-	-	-	-
Chrysene	56	-	0.038 U	0.041 U	0.039 U	0.0147 J	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	1	-	0.038 U	0.041 U	0.039 U	0.038 U	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracen	0.56	-	0.038 U	0.041 U	0.039 U	0.038 U	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	5.6	-	0.038 U	0.041 U	0.039 U	0.034 J	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	500	-	0.038 U	0.041 U	0.039 U	0.038 U	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	500	-	0.038 U	0.041 U	0.039 U	0.0167 J	-	-	-	-	-	-	-	-	-	-	-
Fluorene	500	-	0.038 U	0.041 U	0.039 U	0.038 U	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	500	-	0.038 U	0.041 U	0.039 U	0.038 U	-	-	-	-	-	-	-	-	-	-	-
Total PAHs	500 (e)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs (mg/kg)																	
Aroclor 1260	-	-	0.039 U	0.042 U	0.037 U	0.035 U	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1254	-	-	0.039 U	0.042 U	0.037 U	0.035 U	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268	-	-	0.039 U	0.042 U	0.037 U	0.035 U	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1221	-	-	0.039 U	0.042 U	0.037 U	0.035 U	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1232	-	-	0.039 U	0.042 U	0.037 U	0.035 U	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1248	-	-	0.039 U	0.042 U	0.037 U	0.035 U	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1016	-	-	0.039 U	0.042 U	0.037 U	0.035 U	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1262	-	-	0.039 U	0.042 U	0.037 U	0.035 U	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1242	-	-	0.039 U	0.042 U	0.037 U	0.035 U	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (mg/kg)																	
Arsenic	16	16	***29.4***	11.3	***17.1***	15.1	1.9	3.6	***55.8***	***79.4***	***117***	4.8	2	12.2	14.9	11.2	-
Barium	400	820	***1,900***	317	249	235	73.7	90.7	810	428	242	34.1	28.6	147	***942***	230	-
Cadmium	9.3	-	0.61 U	0.62 U	0.59 U	0.56 U	-	-	-	-	-	-	-	-	-	-	-
Chromium	1,500	-	37.3	30.8	130	61.8	-	-	-	-	-	-	-	-	-	-	-
Lead	1,000	-	338	69.3	148	17.6	-	-	-	-	-	-	-	-	-	-	-
Mercury	2.8	-	0.03 U	0.04 U	0.03 U	0.03 U	-	-	-	-	-	-	-	-	-	-	-
Selenium	1,500	-	7.4 U	7.4 U	12 U	11 U	-	-	-	-	-	-	-	-	-	-	-
Silver	1,500	-	1.8 U	1.8 U	3 U	2.8 U	-	-	-	-	-	-	-	-	-	-	-
Cyanide (mg/kg)	27	40	5.2	0.16 U	0.22 U	***62.5***	0.98 U	0.96 U	3.6	6.3	24	1 U	1.2	1.3 U	3.1	1.7	2.6

a/ ft-bgs = feet below ground surface; PID = photoionization detector; ppm = parts per million; SCOs = soil cleanup objectives; Comm = commercial; PoG = protection of groundwater; mg/kg = milligrams per kilogram; CVOCs = chlorinated volatile organic compounds; PAHs = polycyclic aromatic hydrocarbons; PCBs = polychlorinated biphenyls; "-" = not analyzed, not applicable or not available.

b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.

c/ New York State Department of Environmental Conservation Final Commissioner Policy (CP-51). Subsurface Soil Cleanup for Total PAHs. October 21, 2010. The policy established an alternative cleanup level of 500 mg/kg total PAHs for non-residential sites; total PAHs are the sum of the individual PAHs.

d/ Data Qualifiers:
U = not detected
J = estimated concentration above the method detection limit, but below the reporting limit

e/ Samples M1, M2, M3, and M4 were collected for material characterization purposes only. Sample depths are not applicable.

Boxed value exceeds Comm
Bold italic value exceeds PoG
Gray shading indicates soil was removed

Table 5

AOC 29 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:		DS-1-EW	DS-2-EW	DS-3-EW	DS-4-NW	DS-5-NW	DS-6-NW	DS-7-NW	DS-8-NW	DS-9-BT	DS-900-BT (D)	DS-10-BT	DS-11-SW	DS-12-SW	DS-13-SW	DS-14-SW	DS-15-SW	DS-16-SW	DS-17-BT	CS-1-SW	CS-2-WW	CS-3-SW
Sample Depth (ft-bgs):		0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	2	2	2	0.5 - 1	0.5 - 1	0.5 - 1	0.5 - 1	0.5 - 1	0.5 - 1	2	0 - 2	0 - 2	1.5 - 2
Sample Date:		11/02/18	11/02/18	11/02/18	11/02/18	11/02/18	11/02/18	11/02/18	11/02/18	11/02/18	11/02/18	11/02/18	11/02/18	11/02/18	11/02/18	11/02/18	11/05/18	11/05/18	11/05/18	11/05/18	11/05/18	11/06/18
	SCOs (b) Comm																					
PAHs (mg/kg)																						
Acenaphthene	500	0.65	8.6	0.021	0.0077 U	0.22	0.054	0.13	0.0074 U	0.0079 U	0.019	0.0071 U	0.25	3.4	0.5	0.29	0.019	0.022	0.71 U	0.15	11.4	0.16
Acenaphthylene	500	0.034	0.12	0.0072 U(d)	0.0077 U	0.022	0.0076 U	0.011	0.0074 U	0.0079 U	0.0077 U	0.0071 U	0.038	0.1	0.14	0.11	0.017	0.024	0.71 U	0.038	0.75 U	0.075 U
Anthracene	500	1.1	13	0.048	0.0077 U	0.42	0.1	0.29	0.0074 U	0.0079 U	0.028	0.0071 U	0.48	8.7	1.4	0.77	0.078	0.082	0.71 U	0.34	33.2	0.49
Benzo(a)anthracene	5.6	3.7	32.6	0.15	0.016	1.3	0.24	0.92	0.0074 U	0.0088	0.098	0.02	0.83	15.9	3.9	2.5	0.34	0.23	0.71 U	0.93	55.2	1.5
Benzo(a)pyrene	1	3.2	28.1	0.14	0.015	1.4	0.21	0.91	0.0074 U	0.0079 U	0.087	0.017	0.67	13.6	3.1	2	0.31	0.2	0.71 U	0.86	41.9	1.2
Benzo(b)fluoranthene	5.6	4.5	41.8	0.25	0.035	1.9	0.33	1.4	0.0074 U	0.014	0.12	0.026	1.1	23.3	4.6	3	0.69	0.38	0.71 U	1.4	61.4	2
Benzo(g,h,i)perylene	500	1.4	13.4	0.048	0.0077 U	0.68	0.071	0.3	0.0074 U	0.0079 U	0.052	0.01	0.27	5.1	1.7	1.1	0.1	0.068	0.71 U	0.49	23.6	0.6
Benzo(k)fluoranthene	56	1.9	13.7	0.084	0.031	0.84	0.12	0.57	0.0074 U	0.0079 U	0.055	0.012	0.38	8	1.5	0.87	0.2	0.16	0.71 U	0.57	22	0.74
Chrysene	56	3.4	30.2	0.15	0.022	1.2	0.21	0.82	0.0074 U	0.013	0.098	0.019	0.78	14.4	3.1	2.1	0.36	0.24	2.1	0.89	45	1.3
Dibenzo(a,h)anthracene	0.56	0.61	6.3	0.024	0.0077 U	0.3	0.035	0.16	0.0074 U	0.0079 U	0.024	0.0071 U	0.15	1.1	0.61	0.39	0.048	0.03	0.71 U	0.19	9.2	0.24
Fluoranthene	500	6.9	65.1	0.25	0.028	3	0.43	1.4	0.0074 U	0.018	0.19	0.038	1.5	33.3	7.4	4.7	0.44	0.42	0.71 U	1.9	117	2.5
Fluorene	500	0.57	6.3	0.016	0.0077 U	0.19	0.038	0.12	0.0074 U	0.0079 U	0.014	0.0071 U	0.25	1.4	0.5	0.28	0.015	0.023	0.71 U	0.13	13.2	0.15
Indeno(1,2,3-cd)pyrene	5.6	1.4	13.9	0.059	0.0077 U	0.7	0.086	0.37	0.0074 U	0.0079 U	0.053	0.011	0.31	5.5	1.6	1	0.12	0.078	0.71 U	0.48	21.3	0.57
Naphthalene	500	0.27	1.4	0.0072 U	0.011	0.058	0.0076 U	0.043	0.0074 U	0.0079 U	0.0094	0.0071 U	0.2	0.97	0.17	0.11	0.021	0.036	0.71 U	0.098	6.2	0.075 U
Phenanthrene	500	5.5	57	0.18	0.031	2	0.37	1.1	0.0074 U	0.016	0.15	0.023	2	29.3	5.4	3.4	0.35	0.32	0.71 U	1.3	110	1.7
Pyrene	500	5.7	53	0.2	0.023	2.5	0.32	1.1	0.0074 U	0.015	0.14	0.032	1.1	27.9	5.8	3.9	0.36	0.29	1	1.3	90.1	1.9
Total PAHs	500 (e)	40.8	384.5	1.6	0.2	16.7	2.6	9.6	-	0.1	1.1	0.2	10.3	192.0	41.4	26.5	3.5	2.6	3.1	11.1	660.7	15.1
Metals (mg/kg)																						
Arsenic	16	14.6	14.7	5.1	7	7.2	6.7	13.3	7.9	5.1	6.3	4.2	15.3	13.4	7.4	8.1	18.1	7.6	3.5	14	14.9	19.4

Sample Location:		CS-4-SW	CS-5-WW	CS-500-WW(D)	CS-6-WW	CS-7-WW	DS-18-WW	DS-19-WW	DS-20-WW	DS-21-WW	CS-8-BT	DS-22-SW	DS-23-SW	DS-24-SW
Sample Depth (ft-bgs):		1.5 - 2	1.5 - 2	1.5 - 2	1.5 - 2	1.5 - 2	0.5 - 1.5	0.5 - 1.5	1 - 2	1 - 2	2.5	0 - 0.75	0 - 0.75	0 - 1
Sample Date:		43,410	43,410	43,410	43,410	43,410	43,414	43,414	43,414	43,414	43,419	43,419	43,419	43,419
	SCOs (b) Comm													
PAHs (mg/kg)														
Acenaphthene	500	1.3	104	37.8	1.1	69.2	0.19	0.11	0.19	0.072 U	0.86	0.88	3	2.8
Acenaphthylene	500	0.099	1.9	1.1	0.081	1.1	0.073 U	0.073 U	0.073 U	0.072 U	0.19	0.17	0.16	0.19
Anthracene	500	4.5	148	65.5	2.4	97.6	0.75	0.48	0.75	0.22	2.6	2.3	4.6	6.2
Benzo(a)anthracene	5.6	6.9	802	324	5	569	1.9	1.3	2.7	0.78	5.2	4.7	12.5	11.8
Benzo(a)pyrene	1	5.1	643	267	3.7	466	1.8	1.2	2.6	0.73	4.5	3.9	11.5	9.8
Benzo(b)fluoranthene	5.6	8.3	819	337	5.9	644	2.5	2.6	4.1	1.5	5.9	5.3	27.6	13.2
Benzo(g,h,i)perylene	500	2	121	72.9	1.4	106	0.75	0.45	0.91	0.25	1.5	1.7	4.1	3.4
Benzo(k)fluoranthene	56	2.7	146	78.7	2.5	129	1	2.2	1.5	1.3	2.4	2.3	7.8	4.8
Chrysene	56	5.2	721	298	4.1	526	1.8	1.2	2.6	0.71	5	4.3	11.4	10.8
Dibenzo(a,h)anthracene	0.56	0.88	77.4	43.1	0.61	68.6	0.29	0.16	0.38	0.094	0.6	0.68	2.1	1.6
Fluoranthene	500	12.9	1,520	625	8.8	1,090	3.2	2.5	4.3	1.3	9.3	9.3	45	48
Fluorene	500	2	90.1	32.1	1.1	50.3	0.21	0.11	0.14	0.072 U	1.1	0.91	2.6	2.7
Indeno(1,2,3-cd)pyrene	5.6	2.1	142	75.8	1.5	120	0.75	0.43	0.89	0.25	1.4	1.7	4.2	3.3
Naphthalene	500	1.2	56.5	8.9	0.71	14.7	0.15	0.073 U	0.076	0.072 U	0.44	0.56	1.4	1.3
Phenanthrene	500	12.9	1,390	507	8.9	872	2.3	1.4	2.2	0.66	7.8	8.3	36.2	43.6
Pyrene	500	9.8	1,260	508	6.8	899	2.5	2	3.9	1.2	9	7.5	36.4	44.2
Total PAHs	500 (e)	77.9	8,042	3,282	54.6	5,723	20.1	16.1	27.2	9.0	57.8	54.5	210.6	207.7
Metals (mg/kg)														
Arsenic	16	9.8	17	20.7	18.1	8.8	14.1	8.3	7.3	6.3	22.9	13.6	30.9	7.1

a/ ft-bgs = feet below ground surface; SCOs = soil cleanup objectives; Comm = commercial; mg/kg = milligrams per kilogram; PAHs = polycyclic aromatic hydrocarbons; D = duplicate of previous sample; "-" = not analyzed, not applicable or not available.

b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.

c/ New York State Department of Environmental Conservation Final Commissioner Policy (CP-51). Subsurface Soil Cleanup for Total PAHs. October 21, 2010. The policy established an alternative clean level of 500 mg/kg total PAHs for non-residential sites; total PAHs are the sum of the individual PAHs

d/ Data Qualifiers:
U = not detected

Boxed value exceeds Comm
Gray shading indicates soil was removed

Table 6

AOC 30 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:		30-02		30-05		LBA-SB-212	WSP-SB-614	WSP-SB-615	CS-1-BT	CS-2-BT	CS-3-BT	CS-4-NW	CS-5-NW	CS-6-WW	CS-7-SW	CS-8-SW	CS-9-SW	CS-10-SW	CS-11-EW	CS-12-EW	DS-1-NW
Sample Depth (ft-bgs):		0-0.17	0.17-2	0-0.17	0.17-2	2	2-2.8	2-2.8	1 - 1.5	1 - 1.5	1 - 1.5	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Sample Date:		11/18/15	11/18/15	11/18/15	11/18/15	07/31/13	04/30/14	05/01/14	10/26/18	10/26/18	10/26/18	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18
	SCOs (b) Ind																				
PAHs (mg/kg)																					
Acenaphthene	1,000	-	-	0.058 J	0.0409 J	0.35 U	-	-	0.355 J (d)	0.077 U	0.071 U	0.049	0.12	0.1	0.22	0.0098	0.1	0.17	0.019	0.28	0.014
Acenaphthylene	1,000	-	-	0.0382 J	0.0386 J	0.35 U	-	-	0.569	0.077 U	0.071 U	0.024	0.085	0.027	0.032	0.011	0.034	0.058	0.012	0.18	0.0078 U
Anthracene	1,000	-	-	0.155	0.114	0.35 U	-	-	1.6	0.124	0.071 U	0.16	0.42	0.26	0.63	0.046	0.31	0.88	0.069	0.92	0.047
Benzo(a)anthracene	11	-	-	0.582	0.342	0.35 U	-	-	7.38	0.489	0.171	0.56	1.3	0.52	1.3	0.25	1.2	3.6	0.27	2.4	0.12
Benzo(a)pyrene	1.1	-	-	0.561	0.346	0.35 U	-	-	8.03	0.464	0.188	0.52	0.47	0.44	1.4	0.25	0.99	2.9	0.24	2	0.12
Benzo(b)fluoranthene	11	-	-	0.562	0.373	0.35 U	-	-	11.3	0.638	0.25	0.8	0.68	0.75	2.1	0.44	1.5	4.2	0.55	2.8	0.19
Benzo(g,h,i)perylene	1,000	-	-	0.583	0.404	0.35 U	-	-	7.2	0.333	0.156	0.25	0.27	0.18	0.7	0.11	0.61	1.5	0.12	1.2	0.045
Benzo(k)fluoranthene	110	-	-	0.609	0.353	0.35 U	-	-	4.11	0.196	0.0995	0.29	0.3	0.24	0.91	0.17	0.66	1.6	0.49	1.1	0.069
Chrysene	110	-	-	0.58	0.36	0.35 U	-	-	8.12	0.512	0.192	0.54	1.1	0.47	1.1	0.25	1.1	3.3	0.23	2.3	0.12
Dibenzo(a,h)anthracene	1.1	-	-	0.221	0.137	0.35 U	-	-	1.41	0.075 J	0.0347 J	0.11	0.1	0.089	0.3	0.049	0.23	0.72	0.053	0.48	0.02
Fluoranthene	1,000	-	-	1.1	0.577	0.35 U	-	-	13.8	0.832	0.293	0.96	0.94	0.88	3.2	0.37	1.8	6.3	0.39	4.7	0.2
Fluorene	1,000	-	-	0.0589 J	0.0442 J	0.35 U	-	-	0.414	0.077 U	0.071 U	0.049	0.14	0.12	0.27	0.0098	0.094	0.15	0.022	0.29	0.017
Indeno(1,2,3-cd)pyrene	11	-	-	0.575	0.346	0.35 U	-	-	7.39	0.348	0.142	0.26	0.28	0.2	0.71	0.13	0.59	1.6	0.12	1.2	0.051
Naphthalene	1,000	-	-	0.0466 J	0.168	0.35 U	-	-	0.336 J	0.077 U	0.071 U	0.021	0.074	0.088	0.13	0.0074 U	0.032	0.052	0.0084	0.14	0.0078 U
Phenanthrene	1,000	-	-	0.598	0.427	0.35 U	-	-	5.94	0.396	0.131	0.66	1.5	0.82	2.6	0.16	1.1	3.5	0.22	3.4	0.17
Pyrene	1,000	-	-	0.89	0.452	0.35 U	-	-	12.8	0.831	0.3	0.8	0.77	0.7	2.6	0.3	1.6	5.2	0.31	4.1	0.17
Total PAHs	500 (e)	-	-	7.2	4.5	0.35 U	-	-	90.8	5.2	2.0	6.1	8.5	5.9	18.2	2.6	12.0	35.7	3.1	27.5	1.4
Metals (mg/kg)																					
Arsenic	16	7.9	10.9	8.7	8.3	7.8	-	-	-	-	-	6.2	9.2	7.5	5.2	6.5	15.2	8.4	5.6	13	7.1
PCBs (mg/kg)																					
Aroclor 1248	-	0.039 U	0.036 U	0.043 U	0.037 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1254	-	0.0186 J	0.611	0.043 U	1.96	0.038	0.0887	9.64	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1260	-	0.0256 J	0.138	0.043 U	0.308 J	0.035 U	0.014 U	0.013 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	25	0.0442	0.611	0.043 U	2.268	0.038	0.0887	9.64	-	-	-	-	-	-	-	-	-	-	-	-	-

Boxed value exceeds Ind
Gray shading indicates soil was removed

Table 6

AOC 30 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:		DS-2-NW	DS-3-NW	DS-4-BT	DS-5-BT	DS-6-BT	CS-13-EW	DS-7-SW
Sample Depth (ft-bgs):		0 - 1	0 - 1	0 - 1	1	1	0.75 - 1	0 - 1
Sample Date:		10/31/18	10/31/18	10/31/18	10/31/18	10/31/18	11/07/18	11/09/18
	SCOs (b) Ind							
PAHs (mg/kg)								
Acenaphthene	1,000	1.4	0.0084 U	8	0.0084	0.0085	0.23	0.15 U
Acenaphthylene	1,000	0.44	0.0084 U	0.27	0.0071 U	0.01	0.073 U	0.15 U
Anthracene	1,000	10	0.013	16.5	0.016	0.032	0.83	0.17
Benzo(a)anthracene	11	18.6	0.04	37.5	0.025	0.13	2.9	0.49
Benzo(a)pyrene	1.1	12.9	0.038	33.2	0.021	0.13	2.5	0.44
Benzo(b)fluoranthene	11	18.7	0.068	46.5	0.036	0.27	3.4	0.6
Benzo(g,h,i)perylene	1,000	5.6	0.016	19.5	0.008	0.048	1.4	0.15 U
Benzo(k)fluoranthene	110	8.5	0.022	19	0.015	0.24	1.7	0.29
Chrysene	110	17	0.036	35.7	0.024	0.12	2.7	0.43
Dibenzo(a,h)anthracene	1.1	2.7	0.0084 U	8.6	0.0071 U	0.023	0.55	0.15 U
Fluoranthene	1,000	46.2	0.066	67.6	0.049	0.23	4.8	0.89
Fluorene	1,000	5.5	0.0084 U	6.4	0.0071 U	0.0073 U	0.21	0.15 U
Indeno(1,2,3-cd)pyrene	11	6.3	0.017	19.8	0.009	0.059	1.2	0.15 U
Naphthalene	1,000	0.47	0.0084 U	3.4	0.0089	0.0073 U	0.073 U	0.15 U
Phenanthrene	1,000	40.7	0.04	56.2	0.051	0.11	2.9	0.56
Pyrene	1,000	34.3	0.052	55.3	0.041	0.2	4	0.76
Total PAHs	500 (e)	229.3	0.4	433.5	0.3	1.6	29.3	4.6
Metals (mg/kg)								
Arsenic	16	6.3	8.6	11.9	71.7	8.9	5.8	6.9
PCBs (mg/kg)								
Aroclor 1248	-	-	-	-	-	-	-	-
Aroclor 1254	-	-	-	-	-	-	-	-
Aroclor 1260	-	-	-	-	-	-	-	-
Total PCBs	25	-	-	-	-	-	-	-

a/ ft-bgs = feet below ground surface; SCOs = soil cleanup objectives; Ind = industrial; PAHs = polycyclic aromatic hydrocarbons; mg/kg = milligrams per kilogram; "-" = not analyzed, not applicable or not available.
b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
c/ New York State Department of Environmental Conservation Final Commissioner Policy (CP-51). Subsurface Soil Cleanup for Total PAHs. October 21, 2010.
The policy established an alternative cleanup level of 500 mg/kg total PAHs for non-residential sites; total PAHs are the sum of the individual PAHs.
d/ Data Qualifiers:
U = not detected
J = estimated concentration above the method detection limit, but below the reporting limit

Boxed value exceeds Ind
Gray shading indicates soil was removed

Table 7

AOC 31 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:		CS-1-EW	CS-2-EW	DS-1-BT	DS-2-WW	DS-3-NW	CS-3-EW	CS-4-EW	CS-400-EW (D)	CS-5-EW
Sample Depth (ft-bgs):		0.5 - 1.5	0.5 - 1.5	2	0.5 - 1.5	0.5 - 1.5	0.75 - 1.75	0.5 - 1.5	0.5 - 1.5	0 - 2
Sample Date:		11/06/18	11/06/18	11/07/18	11/07/18	11/07/18	11/10/18	11/10/18	11/10/18	11/27/18
	SCOs (b) RR									
Metals (mg/kg)										
Arsenic	16	22.6	10.9	24.8	6.5	19.3	19.1	11.1	12.5	17.7
Barium	400	321	761	667	94.5	1,750	709	269	267	412
Cadmium	4.3	0.31	0.3 U	0.65	0.31 U	2.5	0.99	0.32 U	0.42	0.94
Chromium	180	43.3	52.1	70.2	67.3	438	89.1	50.3	56.5	95.9
Copper	270	204	147	447	281	2,560	348	159	162	249
Nickel	310	98.4	93.9	180	165	340	196	80.9	104	146
XRF (mg/kg)										
Arsenic	-	-	-	-	-	-	26 ± 4	18 ± 4	18 ± 4	15
Barium	-	-	-	-	-	-	-	-	-	712
Chromium	-	-	-	-	-	-	35 ± 6	220 ± 9	220 ± 9	168
Copper	-	-	-	-	-	-	-	-	-	141
Nickel	-	-	-	-	-	-	-	-	-	105

a/ ft-bgs = feet below ground surface; SCOs = soil cleanup objectives; RR = restricted residential; mg/kg = milligrams per kilogram; XRF = X-ray fluorescence; D = duplicate of previous sample.
b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.

Boxed value exceeds RR
Gray shading indicates soil was removed

Table 8

AOC 32 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:		CS-1-EW	DS-1-NW	DS-2-NW	DS-3-NW	DS-4-NW	DS-5-WW	DS-6-SW	DS-7-SW	DS-8-SW	DS-9-SW	SB-1	SB-2	SB-3	SB-4	SB-5	TP-1 (e)	TP-2 (e)	TP-3 (e)	TP-4 (e)	TP-5 (e)
Sample Depth (ft-bgs):		0.5 - 1.5	1 - 2	1 - 2	0.75 - 1.5	1.5 - 2	0.5 - 1.5	1.5 - 2	1 - 2	1.5 - 2	1 - 2	0 - 2	0 - 2	0 - 1.8	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
Sample Date:		11/13/18	11/13/18	11/13/18	11/13/18	11/13/18	11/13/18	11/13/18	11/13/18	11/13/18	11/13/18	12/03/18	12/03/18	12/03/18	12/03/18	12/03/18	12/18/18	12/18/18	12/18/18	12/18/18	12/18/18
	SCOs (b) RR																				
PAHs (mg/kg)																					
Acenaphthene	100	0.64	2.1	1.7	0.54	0.086 U(d)	0.34	0.12	0.35	0.14	0.59	0.057	0.22	0.035	0.073	0.81	0.3	0.076 U	0.076 U	0.082 U	0.078 U
Acenaphthylene	100	0.6	0.87	0.79	0.32	0.086 U	0.28	0.088	0.24	0.11	0.54	0.18	0.2	0.041	0.031	0.11	0.29	0.15	0.076 U	0.082 U	0.078 U
Anthracene	100	4.6	7	5.5	2	0.2	1.5	0.52	1.6	0.67	2.5	0.27	0.91	0.17	0.21	1.6	1.1	0.16	0.076 U	0.082 U	0.078 U
Benzo(a)anthracene	1	21.2	22.6	27.4	6.3	0.5	4.7	1.4	5.5	2.1	9.7	1.1	5.3	0.6	0.55	4.3	3.2	0.45	0.28	0.21	0.11
Benzo(a)pyrene	1	30.4	22.3	25.8	5.8	0.39	4.7	1.3	5.3	2.1	10.5	1.1	5	0.56	0.5	3.6	2.9	0.41	0.26	0.19	0.099
Benzo(b)fluoranthene	1	60.5	43.7	50	8.8	0.87	7.1	2	8.3	3.2	16.6	2.6	7.6	0.87	0.76	5.2	4.6	1.1	0.57	0.42	0.19
Benzo(g,h,i)perylene	100	11.9	7.8	5.7	1.7	0.13	1.6	0.4	1.5	0.75	3.1	0.44	2.2	0.22	0.2	0.94	1.4	0.19	0.12	0.099	0.078 U
Benzo(k)fluoranthene	3.9	40.9	29.1	33.9	3.5	0.75	2.8	0.8	2.9	1.3	5.3	0.59	3.4	0.38	0.34	1.5	1.3	0.71	0.38	0.28	0.13
Chrysene	3.9	26	18.1	15.5	5.7	0.58	4.3	1.3	4.9	2	8.5	1.1	4.7	0.52	0.47	3.4	2.8	0.51	0.24	0.19	0.11
Dibenzo(a,h)anthracene	0.33	3.9	3.4	2.6	0.74	0.086 U	0.64	0.17	0.62	0.28	1.3	0.23	0.86	0.082	0.073	0.44	0.55	0.076 U	0.076 U	0.082 U	0.078 U
Fluoranthene	100	63.4	43.5	49.4	12.7	1.1	9.5	3	10.7	4	23.1	2.6	10	1.1	0.93	6.9	6.5	0.71	0.43	0.32	0.18
Fluorene	100	1	2.2	1.7	0.54	0.086 U	0.42	0.14	0.37	0.15	0.58	0.079	0.27	0.043	0.1	0.99	0.41	0.11	0.076 U	0.082 U	0.078 U
Indeno(1,2,3-cd)pyrene	0.5	11.4	8.3	6.2	1.8	0.14	1.7	0.47	1.6	0.8	3.3	0.49	2.2	0.22	0.2	0.96	1.5	0.2	0.14	0.099	0.078 U
Naphthalene	100	0.25	0.82	0.69	0.35	0.14	0.17	0.088	0.18	0.088 U	0.23	0.21	0.099	0.024	0.037	0.93	0.51	1	0.076 U	0.12	0.078 U
Phenanthrene	100	21.4	23	25.6	6.8	0.75	5	1.6	4.7	1.9	7.5	1.2	6.5	0.6	0.89	7.6	4	1	0.18	0.21	0.18
Pyrene	100	50.4	35.9	40.9	10.7	0.88	7.7	2.4	8.9	3.3	15.7	2.4	10.2	1.1	0.93	6.5	5	0.6	0.35	0.26	0.17
Total PAHs	500 (c)	348.5	270.7	293.4	68.3	6.4	52.5	15.8	57.7	22.8	109.0	14.6	59.7	6.6	6.3	45.8	36.4	7.3	3.0	2.4	1.2
PCBs (mg/kg)																					
Aroclor 1016	-	0.13 U	0.23 U	0.21 U	0.23 U	0.021 U	0.2 U	0.1 U	0.22 U	0.11 U	0.11 U	0.099 U	0.1 U	0.11 U	0.1 U	0.12 U	0.23 U	1.9 U	0.19 U	0.2 U	0.2 U
Aroclor 1221	-	0.13 U	0.23 U	0.21 U	0.23 U	0.021 U	0.2 U	0.1 U	0.22 U	0.11 U	0.11 U	0.099 U	0.1 U	0.11 U	0.1 U	0.12 U	0.53	22.5	0.58	0.2 U	0.2 U
Aroclor 1232	-	0.13 U	0.23 U	0.21 U	0.23 U	0.021 U	0.2 U	0.1 U	0.22 U	0.11 U	0.11 U	0.099 U	0.1 U	0.11 U	0.1 U	0.12 U	0.23 U	1.9 U	0.19 U	0.2 U	0.2 U
Aroclor 1242	-	0.13 U	0.23 U	0.21 U	0.23 U	0.021 U	0.2 U	0.1 U	0.22 U	0.11 U	0.11 U	0.099 U	0.1 U	0.11 U	0.1 U	0.12 U	0.23 U	1.9 U	0.19 U	0.2 U	0.2 U
Aroclor 1248	-	0.13 U	0.23 U	0.21 U	0.23 U	0.021 U	0.2 U	0.1 U	0.22 U	0.11 U	0.11 U	0.099 U	0.1 U	0.11 U	0.1 U	0.12 U	0.23 U	1.9 U	0.19 U	0.2 U	0.2 U
Aroclor 1254	-	0.83	2	2.5	1.9	0.076	0.94	0.31	0.66	0.22	0.55	0.099 U	0.71	0.49	0.25	0.45	0.23 U	1.9 U	0.19 U	0.2 U	0.2 U
Aroclor 1260	-	0.13 U	0.23 U	0.21 U	0.23 U	0.021 U	0.2 U	0.1 U	0.22 U	0.11 U	0.11 U	0.099 U	0.1 U	0.11 U	0.1 U	0.12 U	0.23 U	1.9 U	0.19 U	0.2 U	0.2 U
Total PCBs	1	0.83	2	2.5	1.9	0.076	0.94	0.31	0.66	0.22	0.55	-	0.71	0.49	0.25	0.45	0.53	22.5	0.58	0	0
Metals (mg/kg)																					
Arsenic	16	11.4	11.9	13.8	52.7	86.5	11.2	22.7	9.1	16.9	11.7	11.1	8.4	19.8	36.1	20.4	18.8	12.7	7.5	12.2	11.1
Barium	400	142	145	113	237	142	97.3	133	88.6	84.7	74.8	65	129	176	69.6	89.4	266	156	73.1	110	96.1
Cadmium	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	400	627	230	236	202	45.1	112	93.4	62.8	59	90.6	376	290	282	52.2	151	555	136	52.6	106	46.4
Mercury	0.81	0.16 U	0.16	0.21	0.14	0.13 U	0.11 U	0.17	0.13 U	0.13 U	0.15	0.12	0.13 U	0.12 U	0.12 U	0.14 U	0.33	2.3	0.2	0.12 U	0.11 U
Selenium	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XRF (mg/kg)																					
Arsenic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (mg/kg)	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Boxed value exceeds RR
Gray shading indicates soil was removed

Table 8

AOC 32 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:		DS-10-SW	DS-11-NW	DS-12-SW	DS-13-NW	DS-14-SW	DS-15-NW	DS-16-SW	DS-1600-SW (D)	DS-17-NW	DS-18-BT	P2	P3	P4	P5	P6	P100 (D)	P7	P8	P9	P10	S1
Sample Depth (ft-bgs):		0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	2	0-2.0	0-2.0	0-2.0	0-2.0	0-2.0	0-2.0	0-2.0	0-2.0	0-2.0	0-2.0	0-2.0
Sample Date:		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18	12/19/18	12/19/18	12/19/18	12/19/18	12/19/18	04/01/19	04/01/19	04/01/19	04/01/19	04/01/19	04/01/19	04/01/19	04/01/19	04/01/19	04/01/19	04/01/19
	SCOs (b) RR																					
PAHs (mg/kg)																						
Acenaphthene	100	0.89	0.22	1.3	0.89	0.2	0.88	0.16	0.2	1	0.19	0.101	0.382	0.675	0.0147	0.145	0.119	1.41	0.178	0.223	0.0687	1.27
Acenaphthylene	100	0.46	0.38	0.36	0.73	0.24	0.66	0.29	0.24	0.99	0.094	0.00679 U	0.00706 U	0.00682 U	0.00652 U	0.00668 U	0.00703 U	0.00667 U	0.00708 U	0.00677 U	0.00717 U	0.0554
Anthracene	100	2.7	0.91	4.4	3.2	0.75	2.9	0.64	0.83	3.9	0.62	0.548	1.24	1.65	0.0516	0.818	0.952	3.09	0.67	0.704	0.311	3.8
Benzo(a)anthracene	1	8.9	3.5	8.1	13.5	3.4	11.1	2.8	3.7	12.5	2.1	1.6	2.91	3.18	0.186	2.24	3.86	5.58	1.51	1.78	0.913	3.43
Benzo(a)pyrene	1	8.3	3.4	7	13.9	3.8	11.1	3	3.9	12.3	2.1	1.44	2.4	2.43	0.197	1.96	3.38	4.77	1.26	1.44	0.846	2.09
Benzo(b)fluoranthene	1	17.5	7.9	10.9	27.9	6.7	22.6	7.3	10.1	21.9	5.2	2	3.38	3.02	0.284	2.8	3.83	6.05	1.64	1.83	1.14	2.97
Benzo(g,h,i)perylene	100	2.7	1.1	1.8	2.8	0.87	2.2	0.61	0.72	2.1	0.4	1.02	1.44	1.44	0.136	1.27	1.84	4.2	0.782	0.845	0.491	1.03
Benzo(k)fluoranthene	3.9	11.5	5.3	3.3	7.4	1.8	5.2	4.9	6.8	5.1	3.5	0.693	0.938	1.13	0.107	0.988	1.21	2.11	0.625	0.565	0.319	1.08
Chrysene	3.9	7.1	3.2	6.4	10.8	3.1	8.8	2.4	3.2	10.5	1.8	1.46	2.93	2.9	0.137	2.19	3.56	3.99	1.15	1.39	0.855	3.52
Dibenzo(a,h)anthracene	0.33	1.3	0.57	1	1.5	0.42	1.2	0.31	0.37	1.2	0.21	0.328	0.439	0.423	0.0373	0.404	0.589	1.23	0.255	0.263	0.158	0.407
Fluoranthene	100	16.1	6	15.4	38.8	6.7	25	5.5	7.3	24.1	4.3	2.49	3.77	4.41	0.315	4.17	3.08	15.7	2.65	3.5	1.68	13.5
Fluorene	100	0.99	0.26	2.4	0.95	0.24	0.9	0.2	0.26	1.2	0.24	0.108	0.454	0.622	0.0177	0.202	0.187	1.66	0.223	0.261	0.0846	0.951
Indeno(1,2,3-cd)pyrene	0.5	3.2	1.4	2.4	3.9	1.1	3	0.83	0.99	3	0.55	0.96	1.34	1.34	0.125	1.19	1.78	4.21	0.725	0.777	0.454	1.04
Naphthalene	100	0.53	0.37	1.4	0.58	0.12	0.47	0.25	0.18	0.6	0.084 U	0.0731	0.724	0.373	0.0293	0.32	0.357	0.579	0.284	0.197	0.0914	0.245
Phenanthrene	100	9.3	2.9	14	11.2	2.8	9.8	2.3	3.1	11.5	2.4	1	3.71	3.55	0.148	1.82	1.43	9.99	1.88	2.38	0.719	2.98
Pyrene	100	13.1	5.1	11.8	31.7	5.4	20.5	4.4	5.8	20	3.4	2.26	2.37	2.59	0.276	3.39	5.13	9.84	2.46	2.81	1.41	9.38
Total PAHs	500 (c)	104.6	42.5	92.0	169.8	37.6	126.3	35.9	47.7	131.9	27.1	16.1	28.4	29.7	2.1	23.9	31.3	74.4	16.3	19.0	9.5	47.7
PCBs (mg/kg)																						
Aroclor 1016	-	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U	0.2 U	2 U	0.21 U	0.0192 U	0.02 U	0.0193 U	0.0185 U	0.0189 U	0.0199 U	0.0189 U	0.02 U	0.0192 U	0.0203 U	0.0195 U
Aroclor 1221	-	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U	0.2 U	2 U	0.21 U	0.0192 U	0.02 U	0.0193 U	0.0185 U	0.0189 U	0.0199 U	0.0189 U	0.02 U	0.0192 U	0.0203 U	0.0195 U
Aroclor 1232	-	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U	0.2 U	2 U	0.21 U	0.0192 U	0.02 U	0.0193 U	0.0185 U	0.0189 U	0.0199 U	0.0189 U	0.02 U	0.0192 U	0.0203 U	0.0195 U
Aroclor 1242	-	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U	0.2 U	2 U	0.21 U	0.0192 U	0.02 U	0.0193 U	0.0185 U	0.0189 U	0.0199 U	0.0189 U	0.02 U	0.0192 U	0.0203 U	0.0195 U
Aroclor 1248	-	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U	0.2 U	2 U	0.21 U	0.0192 U	0.02 U	0.0193 U	0.0185 U	0.0189 U	0.0199 U	0.0189 U	0.02 U	0.0192 U	0.0203 U	0.0195 U
Aroclor 1254	-	2	0.7	1.5	1.9	0.92	2.4	0.57	0.81	4.2	0.77	0.089	0.318	0.0193 U	0.0538	0.0715	0.0939	0.0734	0.0737	0.165	0.0794	0.2
Aroclor 1260	-	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U	0.2 U	2 U	0.21 U	0.0192 U	0.02 U	0.0193 U	0.0185 U	0.0189 U	0.0199 U	0.0189 U	0.02 U	0.0192 U	0.0203 U	0.0195 U
Total PCBs	1	2	0.7	1.5	1.9	0.92	2.4	0.57	0.81	4.2	0.77	0.089	0.318	-	0.0538	0.0715	0.0939	0.0734	0.0737	0.165	0.0794	0.2
Metals (mg/kg)																						
Arsenic	16	13.3	31.7	14.3	25.3	15.4	28.5	23.3	10	13.3	38.7	4.55 B	5.64 B	6.1	4.03 B	8.81	16.2	4.95 B	15.7	13.1	8	8.72
Barium	400	96.5	113	98.9	157	116	115	115	78.9	292	81.7	74.4	83.9	67.6	63.5	126	149	80.4	89.4	112	86.6	1,590
Cadmium	4.3	-	-	-	-	-	-	-	-	-	-	0.232 J	0.749 J	0.239 J	0.177 J	0.449 J	0.487 J	0.321 J	0.221 J	0.285 J	0.318 J	0.141 J
Chromium	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	400	115	71.7	95.1	164	112	123	141	119	261	74.3	34.7	121	114	22.1	79.9	252	35.8	50.6	36.4	53.9	59.9
Mercury	0.81	0.14	0.13 U	0.12 U	0.12 U	0.14	0.12 U	0.11 U	0.11 U	0.27	0.12 U	0.0528	0.0926	0.0639	0.0532	0.203	0.232	0.0922	0.0758	0.125	0.0529	0.0514
Selenium	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XRF (mg/kg)																						
Arsenic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8 ± 1.8	30 ± 4	30 ± 4	17.2 ± 1.8	6.5 ± 1.5	7.7 ± 1.5	11.5 ± 2	-
Barium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	353 ± 102	459 ± 114	459 ± 114	334 ± 80	ND	ND	ND	-
Cadmium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	-
Lead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24 ± 2	189 ± 6	189 ± 6	46 ± 2	23 ± 2	28 ± 2	36 ± 3	-
Mercury	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	-
Cyanide (mg/kg)	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Boxed value exceeds RR
Gray shading indicates soil was removed

Table 8

AOC 32 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:		S2	S3	S4	S5	S6	P1	DS-19-WW	DS-20-WW	DS-21-BT	DS-22-NW	DS-23-NW	DS-24-BT	DS-100-BT (D)	DS-25-BT	DS-26-NW	DS-27-BT	CS-2-EW	DS-28-NW	DS-29-NW	DS-30-NW	DS-31-BT
Sample Depth (ft-bgs):		0-2.0	0-2.0	0-2.0	0-2.0	0-2.0	0-2.0	1.5	1.75	2	1.75	1	2	2	2	1.5	2	1.75	1.5	0.5	1	2
Sample Date:		04/01/19	04/01/19	04/01/19	04/01/19	04/01/19	04/02/19	06/26/19	06/26/19	06/26/19	06/26/19	06/26/19	06/26/19	06/26/19	06/26/19	06/26/19	06/26/19	06/27/19	06/28/19	06/27/19	06/27/19	06/27/19
	SCOs (b) RR																					
PAHs (mg/kg)																						
Acenaphthene	100	0.282	0.431	0.43	0.271	0.066	0.0695	0.55	0.63	0.4	1.2	0.028	0.051	0.021	0.14	0.11	0.042	1	12.1	0.14	0.069	1.6
Acenaphthylene	100	0.0144	0.00662 U	0.00689 U	0.00665 U	0.0066 U	0.00693 U	0.44	0.75	0.98	0.33	0.01	0.024	0.028	0.36	0.08	0.051	1.7	0.89	0.096	0.15	1.4
Anthracene	100	0.991	1.09	1.02	0.532	0.37	0.213	1.5	1.4	2.1	3.2	0.064	0.15	0.088	0.63	0.32	0.15	4.6	25.7	0.56	0.23	6.1
Benzo(a)anthracene	1	3.69	7.29	2.08	1.19	0.771	0.576	4.3	4.5	4.9	6.8	0.23	0.57	0.4	2	1.1	0.4	12.6	41.8	1.6	0.78	22.4
Benzo(a)pyrene	1	3.3	6.98	1.46	0.839	0.551	0.496	3.8	3.3	5.8	6.1	0.17	0.55	0.39	2.1	1	0.33	11.8	29.8	1.2	0.67	15.5
Benzo(b)fluoranthene	1	4.35	9.11	1.83	1.13	0.987	0.635	11.4	9.7	13.1	12.8	0.76	2	1.3	8.6	4.4	1.3	27.8	56.4	3.5	2.5	35.5
Benzo(g,h,i)perylene	100	1.57	4.39	0.806	0.497	0.423	0.285	0.26	0.29	0.57	0.54	0.029	0.092	0.041	0.24	0.14	0.049	1.3	3.5	0.09	0.066	1.3
Benzo(k)fluoranthene	3.9	1.23	1.61	0.691	0.356	0.237	0.207	9	7.7	11.9	11.6	0.6	1.2	1	6.8	3.5	0.99	25.2	15.1	3.2	2.3	32.2
Chrysene	3.9	3.61	6.02	1.78	0.925	0.547	0.479	3.8	4	4.4	5.1	0.19	0.48	0.35	1.8	0.96	0.35	10.6	33.1	1.3	0.8	14.9
Dibenzo(a,h)anthracene	0.33	0.451	0.712	0.241	0.148	0.146	0.0903	0.18	0.18	0.3	0.32	0.012	0.039	0.021	0.12	0.066	0.027	0.85	2.2	0.071	0.032	0.81
Fluoranthene	100	6.91	13.9	5.25	2.34	1.29	1.03	8.4	7.8	8.5	11.5	0.41	1	0.69	3.2	2.4	0.7	29.6	106	2.9	1.3	48
Fluorene	100	0.305	0.451	0.396	0.254	0.0664	0.0811	0.76	0.85	0.46	1.2	0.029	0.048	0.029	0.17	0.13	0.038	1.1	11.5	0.2	0.083	2.6
Indeno(1,2,3-cd)pyrene	0.5	1.48	3.81	0.731	0.462	0.39	0.268	0.42	0.4	0.69	0.68	0.03	0.11	0.054	0.28	0.18	0.06	1.8	5.3	0.15	0.078	1.9
Naphthalene	100	0.215	0.504	0.155	0.107	0.0417	0.0353	0.89	0.56	0.37	0.92	0.018	0.026	0.025	0.24	0.074	0.048	0.82	1.9	0.098	0.21	1.3
Phenanthrene	100	2.78	3.93	3.86	2.05	0.654	0.634	5.9	3.6	4.7	9	0.27	0.61	0.35	1.2	1.1	0.39	8.9	94.2	1.9	0.83	26.2
Pyrene	100	4.1	13.4	3.37	1.91	1.14	0.869	6.6	6.1	7.3	8.8	0.32	0.83	0.58	2.7	1.8	0.57	26.4	80.9	2.3	1.1	38.6
Total PAHs	500 (c)	35.3	73.6	24.1	13.0	8.3	6.0	58.2	51.8	66.5	80.1	3.2	7.8	5.4	30.6	17.4	5.5	166.1	520.4	19.3	11.2	250.3
PCBs (mg/kg)																						
Aroclor 1016	-	0.1999 U	0.0188 U	0.0195 U	0.0188 U	0.0187 U	0.0196 U	0.1 U	0.094 U	0.096 U	0.089 U	0.086 U	0.019 U	0.019 U	0.019 U	0.093 U	0.02 U	0.098 U	0.21 U	0.093 U	0.2 U	0.21 U
Aroclor 1221	-	0.1999 U	0.0188 U	0.0195 U	0.0188 U	0.0187 U	0.0196 U	0.1 U	0.094 U	0.096 U	0.089 U	0.086 U	0.019 U	0.019 U	0.019 U	0.093 U	0.02 U	0.098 U	0.21 U	0.093 U	0.2 U	0.21 U
Aroclor 1232	-	0.1999 U	0.0188 U	0.0195 U	0.0188 U	0.0187 U	0.0196 U	0.1 U	0.094 U	0.096 U	0.089 U	0.086 U	0.019 U	0.019 U	0.019 U	0.093 U	0.02 U	0.098 U	0.21 U	0.093 U	0.2 U	0.21 U
Aroclor 1242	-	0.1999 U	0.0188 U	0.0195 U	0.0188 U	0.0187 U	0.0196 U	0.1 U	0.094 U	0.096 U	0.089 U	0.086 U	0.019 U	0.019 U	0.019 U	0.093 U	0.02 U	0.098 U	0.21 U	0.093 U	0.2 U	0.21 U
Aroclor 1248	-	0.1999 U	0.0188 U	0.0195 U	0.0188 U	0.0187 U	0.0196 U	0.1 U	0.094 U	0.096 U	0.089 U	0.086 U	0.019 U	0.019 U	0.019 U	0.093 U	0.02 U	0.098 U	0.21 U	0.093 U	0.2 U	0.21 U
Aroclor 1254	-	0.0947	0.107	0.065	0.0229	0.0187 U	0.0337	0.1 U	0.094 U	0.096 U	0.089 U	0.086 U	0.019 U	0.019 U	0.019 U	0.093 U	0.02 U	0.57	0.21 U	0.093 U	0.2 U	1.9
Aroclor 1260	-	0.1999 U	0.0188 U	0.0195 U	0.0188 U	0.0187 U	0.0196 U	0.53	0.094 U	0.21	0.34	0.086 U	0.019 U	0.019 U	0.15	0.23	0.056	0.098 U	0.21 U	0.093 U	0.2 U	1.4
Total PCBs	1	0.0947	0.107	0.065	0.0229	-	0.0337	0.53	-	0.21	0.34	-	-	-	0.15	0.23	0.056	0.57	-	-	-	3.3
Metals (mg/kg)																						
Arsenic	16	4.73	12.7	11.3	13.6	7.19	3.37 B	38	16.2	10.2	20.8	4.8	9.6	10.3	4.2	13.3	45.7	15.5	24.6	10.6	18.6	19.8
Barium	400	52.7	96.3	119	293	94.6	84.3	129	68.3	67.4	125	133	61.6	67.2	45.3	98.3	126	134	116	95.4	93.3	169
Cadmium	4.3	0.199 J	0.312	0.172 J	0.261 J	0.183	0.308 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	400	31.9	133	235	68.4	29.8	28.3	133	73.2	84.5	126	112	182	883	35.1	229	35.8	71.1	294	46.4	125	186
Mercury	0.81	0.0571	0.0849	0.105	0.0652	0.0257	0.0615	0.16	0.11 U	0.14	0.12	0.1 U	0.13	0.11 U	0.11 U	0.1	0.11 U	0.11 U	0.16	0.11 U	0.11 U	0.17
Selenium	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XRF (mg/kg)																						
Arsenic	-	-	-	-	-	7.7 ± 1.8	-	43 ± 10	21 ± 8	20 ± 8	16 ± 7	16 ± 9	ND	ND	10 ± 6	ND	81 ± 8	9 ± 5	26 ± 9	13 ± 6	12 ± 10	31 ± 8
Barium	-	-	-	-	-	303 ± 95	-	281 ± 53	213 ± 45	ND	ND	242 ± 53	279 ± 54	279 ± 54	ND	ND	ND	-	-	-	-	-
Cadmium	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	-	-	-	-	-	24 ± 2	-	90 ± 12	75 ± 10	140 ± 11	98 ± 9	83 ± 12	247 ± 18	247 ± 18	40 ± 8	334 ± 16	52 ± 8	64 ± 7	246 ± 11	57 ± 7	185 ± 11	226 ± 10
Mercury	-	-	-	-	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	8 ± 4	7 ± 6	ND	10 ± 7	ND	ND
Cyanide (mg/kg)	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Boxed value exceeds RR
Gray shading indicates soil was removed

Table 8

AOC 32 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:	SCOs (b) RR	DS-32-NW	DS-33-NW	TP-1	TP-2	TRENCH	DS-34-SW	DS-35-SW	DS-36-SW	DS-200-SW (D)	DS-37-SW	DS-38-SW	DS-39-SW	DS-40-SW	DS-41-BT	DS-42-SW	CS-3-EW	DS-43-SW	DS-44-SW	DS-37A-SW	DS-37B-SW	DS-28A-NW
Sample Depth (ft-bgs):		1.75	0.5	1	1.5	-	1.5	1.25	1.75	1.75	1.75	1.5	1.25	1	2	1.5	1.5	1.75	1.5	1.75	1.75	1.5
Sample Date:		06/28/19	06/28/19	07/11/19	07/11/19	07/16/19	07/16/19	07/16/19	07/16/19	07/16/19	07/16/19	07/17/19	07/17/19	07/17/19	07/17/19	07/17/19	07/18/19	07/18/19	07/18/19	07/25/19	07/25/19	07/29/19
PAHs (mg/kg)																						
Acenaphthene	100	0.027	0.077	0.17	0.17	-	0.07 U	0.2	1.1 U	0.082 U	1 U	0.31	0.25	0.083 U	0.0079 U	0.28	0.75	0.12	0.18	-	-	0.3
Acenaphthylene	100	0.081	0.063	0.42	0.27	-	0.25	1.1	1.1 U	0.082 U	2.1	0.18	0.088 U	0.083 U	0.0079 U	0.31	2.6	0.25	0.57	-	-	0.67
Anthracene	100	0.1	0.19	0.63	0.58	-	0.17	0.91	1.1 U	0.082 U	1	0.85	0.78	0.083 U	0.0079 U	1.1	5.6	0.39	0.63	-	-	0.88
Benzo(a)anthracene	1	0.44	0.76	2.2	2.3	-	0.45	4.4	1.1 U	0.4	6.9	2.2	1.5	0.16	0.0079 U	2.6	12.3	1.3	3.2	-	-	4.1
Benzo(a)pyrene	1	0.46	0.78	1.9	2.3	-	0.65	4.7	1.1 U	0.13	7	1.8	1	0.13	0.0079 U	2	11.7	1.1	2.8	-	-	3.6
Benzo(b)fluoranthene	1	1.6	2.5	2.9	4.9	-	1.2	7.4	1.1 U	0.25	10.7	3.8	2.2	0.29	0.0087	4.5	25.1	2.4	5.9	-	-	7.6
Benzo(g,h,i)perylene	100	0.054	0.088	0.85	0.13	-	0.53	2.2	1.1 U	0.082 U	3.6	0.85	0.34	0.083 U	0.0079 U	0.68	1.3	0.18	0.23	-	-	1.5
Benzo(k)fluoranthene	3.9	1.4	2.3	1.1	4	-	0.47	2.9	1.1 U	0.21	3.9	3.3	1.9	0.25	0.0079 U	3.9	20.7	1.9	4.7	-	-	2.5
Chrysene	3.9	0.49	0.69	2.1	2	-	0.7	4.5	1.7	0.78	7.6	2.1	1.3	0.18	0.0079 U	2.4	10.6	1.1	2.7	-	-	4.9
Dibenzo(a,h)anthracene	0.33	0.026	0.039	0.34	0.14	-	0.16	0.79	1.1 U	0.082 U	1.3	0.32	0.16	0.083 U	0.0079 U	0.31	1.1	0.14	0.22	-	-	0.65
Fluoranthene	100	0.66	1.2	4.1	4.4	-	0.76	6.4	1.1 U	0.28	8.7	4.8	3.3	0.38	0.0079 U	5.4	21.6	2.5	5.6	-	-	7.7
Fluorene	100	0.028	0.078	0.17	0.2	-	0.07 U	0.24	1.1 U	0.082 U	1	0.43	0.44	0.083 U	0.0079 U	0.55	0.88	0.15	0.24	-	-	0.36
Indeno(1,2,3-cd)pyrene	0.5	0.063	0.095	0.85	0.19	-	0.43	2	1.1 U	0.082 U	3.3	0.9	0.4	0.083 U	0.0079 U	0.78	1.9	0.25	0.4	-	-	1.5
Naphthalene	100	0.062	0.041	0.59	0.24	-	0.32	1.6	1.1 U	0.082 U	2.3	0.76	0.56	0.083 U	0.0079 U	0.66	0.52	0.32	0.25	-	-	0.86
Phenanthrene	100	0.36	0.76	1.8	2.2	-	0.37	2.8	1.1 U	0.11	3.3	3.3	2.9	0.27	0.0079 U	4	7.7	1.4	2.3	-	-	4.2
Pyrene	100	0.56	0.98	3.6	4	-	0.68	5.6	1.1 U	0.43	9.9	3.9	2.5	0.3	0.0079 U	4.2	20	2.1	4.7	-	-	6.5
Total PAHs	500 (c)	6.4	10.6	23.7	24.0	-	7.1	47.7	1.7	2.6	72.6	29.8	19.5	2.0	0.0087	33.67	144.35	15.6	34.62	-	-	47.82
PCBs (mg/kg)																						
Aroclor 1016	-	0.094 U	0.18 U	0.19 U	0.019 U	-	0.18 U	0.16 U	0.026 U	0.02 U	0.25 U	0.11 U	0.22 U	0.1 U	0.02 U	0.21 U	0.2 U	0.1 U	0.2 U	-	-	-
Aroclor 1221	-	0.094 U	0.18 U	0.19 U	0.019 U	-	0.18 U	0.16 U	0.026 U	0.02 U	0.25 U	0.11 U	0.22 U	0.1 U	0.02 U	0.21 U	0.2 U	0.1 U	0.2 U	-	-	-
Aroclor 1232	-	0.094 U	0.18 U	0.19 U	0.019 U	-	0.18 U	0.16 U	0.026 U	0.02 U	0.25 U	0.11 U	0.22 U	0.1 U	0.02 U	0.21 U	0.2 U	0.1 U	0.2 U	-	-	-
Aroclor 1242	-	0.094 U	0.18 U	0.19 U	0.019 U	-	0.18 U	0.16 U	0.026 U	0.02 U	0.25 U	0.11 U	0.22 U	0.1 U	0.02 U	0.21 U	0.2 U	0.1 U	0.2 U	-	-	-
Aroclor 1248	-	0.094 U	0.18 U	0.19 U	0.019 U	-	0.18 U	0.16 U	0.026 U	0.02 U	0.25 U	0.11 U	0.22 U	0.1 U	0.02 U	0.21 U	0.2 U	0.1 U	0.2 U	-	-	-
Aroclor 1254	-	0.094 U	0.18 U	0.35	0.17	-	0.18 U	0.16 U	0.026 U	0.02 U	0.91	0.36	3.5	0.34	0.02 U	0.21 U	1	0.1 U	0.2 U	-	-	-
Aroclor 1260	-	0.094 U	0.18 U	0.26	0.019 U	-	0.18 U	0.16 U	0.026 U	0.02 U	0.25 U	0.11 U	0.22 U	0.1 U	0.02 U	0.21 U	0.2 U	0.1 U	0.2 U	-	-	-
Total PCBs	1	-	-	0.61	0.17	-	-	-	-	-	0.91	0.36	3.5	0.34	-	-	1	-	-	-	-	-
Metals (mg/kg)																						
Arsenic	16	7.5	4.9	11.2	16.4	6.2	19.6	35.6	12.7	9.8	15.4	23.7	16.9	10.2	7	13.7	10	14.1	23.8	-	-	-
Barium	400	70.4	68.9	117	149	76.1	171	203	112	65.2	93.2	133	83.3	84.9	99.9	127	80.2	190	100	-	-	-
Cadmium	4.3	-	-	-	-	0.33 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	180	-	-	-	-	17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	400	77.5	73	53.6	67.1	22.4	313	209	102	57	127	161	93.9	180	8.4	245	70.6	493	97.3	-	-	-
Mercury	0.81	0.11 U	0.11 U	0.18	0.12 U	0.11 U	0.99	1.4	1.5	1.6	1.3	0.56	1.5	0.2	0.12 U	0.3	0.21	0.19	0.15	-	-	-
Selenium	180	-	-	-	-	0.89 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	180	-	-	-	-	0.67 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XRF (mg/kg)																						
Arsenic	-	21 ± 8	9 ± 6	9 ± 5	ND	-	30 ± 16	ND	-	-	21 ± 6	30 ± 8	16 ± 7	ND	-	19 ± 6	42 ± 8	61 ± 17	21 ± 17	-	-	-
Barium	-	-	-	284 ± 44	638 ± 48	-	ND	ND	-	-	ND	ND	158 ± 11	ND	-	ND	68 ± 17	ND	ND	-	-	-
Cadmium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	-	124 ± 9	94 ± 7	16 ± 7	16 ± 7	-	523 ± 21	ND	-	-	86 ± 8	140 ± 10	93 ± 10	190 ± 11	-	89 ± 8	89 ± 14	696 ± 22	62 ± 11	-	-	-
Mercury	-	ND	ND	ND	ND	-	ND	ND	-	-	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-
Cyanide (mg/kg)	27	-	-	-	-	3.3	-	-	4	-	105	8	-	-	-	-	-	-	-	27.3	34.9	-

Boxed value exceeds RR
Gray shading indicates soil was removed

Table 8

AOC 32 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:	SCOs (b) RR	DS-28B-NW	DS-37C-SW	DS-45-BT	DS-46-SW	DS-47-SW	DS-48-BT	DS-49-SW	BD-17-SB1	BD-17-SB1	BD-17-SB1	BD-17-SB2	DS-50-NW	DS-51-NW	DS-52-NW	DS-53-SW	DS-54-NW	DS-55-NW	DS-56-EW	DS-57-WW	DS-58-SW	DS-300-NW (D)
Sample Depth (ft-bgs):		1.5	1	3	2	1	2	0.75	(3-4)	(10-12)	(14-16)	(8-10)	1	0.75	1.25	1	1	1.25	1.5	1.5	1	1
Sample Date:		07/29/19	08/05/19	08/02/19	08/02/19	08/02/19	08/02/19	08/02/19	08/06/19	08/06/19	08/06/19	08/06/19	08/07/19	08/07/19	08/07/19	08/07/19	08/07/19	08/07/19	08/07/19	08/07/19	08/07/19	08/07/19
PAHs (mg/kg)																						
Acenaphthene	100	1.5	-	0.013	0.098	0.012	0.008 U	0.021 U	-	0.077 U (e	0.073 U	0.013	0.0072 U	0.68	0.52	0.061	0.85	13.8	0.19	0.8	0.011	0.0076 U
Acenaphthylene	100	1.3	-	0.008 U	0.097	0.0077 U	0.008 U	0.021 U	-	0.077 U	0.073 U	0.0075 U	0.028	1	0.42	0.13	0.55	3.2	0.85	1.3	0.12	0.038
Anthracene	100	3.6	-	0.008 U	0.089 U	0.0077 U	0.015	0.026	-	0.077 U	0.073 U	0.0081	0.014	2.9	1.6	0.21	2.9	44.2	1.1	3.5	0.043	0.016
Benzo(a)anthracene	1	8.6	-	0.021	0.091	0.026	0.04	0.074	-	0.077 U	0.1	0.036	0.032	8.3	6	0.59	7.2	88	2.7	7.9	0.13	0.053
Benzo(a)pyrene	1	9	-	0.0094	0.089 U	0.018	0.028	0.057	-	0.077 U	0.13	0.041	0.021	7.6	5	0.47	5.7	64.7	2.4	6.7	0.082	0.028
Benzo(b)fluoranthene	1	14.9	-	0.019	0.11	0.0077 U	0.056	0.11	-	0.077 U	0.074	0.013	0.09	17.8	8.6	1.3	13.7	82.8	7.2	10.2	0.22	0.093
Benzo(g,h,i)perylene	100	4.4	-	0.008 U	0.089 U	0.0077 U	0.012	0.025	-	0.077 U	0.073 U	0.0075 U	0.032	1.3	0.82	0.049	0.76	4.9	0.4	0.42	0.011	0.028
Benzo(k)fluoranthene	3.9	4.4	-	0.016	0.099	0.0077 U	0.049	0.1	-	0.077 U	0.073 U	0.011	0.079	15.7	2.8	1.2	12.8	28	6.5	2.9	0.19	0.082
Chrysene	3.9	8.6	-	0.022	0.17	0.021	0.037	0.071	-	0.078	0.26	0.056	0.061	7.1	4.6	0.61	5.4	63.9	2.6	7	0.2	0.12
Dibenzo(a,h)anthracene	0.33	1.7	-	0.008 U	0.089 U	0.0077 U	0.008 U	0.021 U	-	0.077 U	0.073 U	0.0075 U	0.0095	0.68	0.41	0.027	0.4	2.7	0.2	0.19	0.0081 U	0.0095
Fluoranthene	100	26.4	-	0.033	0.2	0.04	0.077	0.18	-	0.077 U	0.16	0.02	0.055	20.4	12.7	1.3	16.8	382	5.7	18.3	0.21	0.11
Fluorene	100	1.3	-	0.0096	0.089 U	0.013	0.008 U	0.021 U	-	0.077 U	0.073 U	0.0083	0.0072 U	0.75	0.53	0.1	1	16.3	0.25	0.94	0.034	0.0076 U
Indeno(1,2,3-cd)pyrene	0.5	4.4	-	0.008 U	0.089 U	0.0077 U	0.012	0.021 U	-	0.077 U	0.073 U	0.0075 U	0.024	1.8	1.1	0.068	1	7.1	0.54	0.53	0.0081 U	0.013
Naphthalene	100	0.72	-	0.008 U	0.089 U	0.0077 U	0.008 U	0.031	-	0.077 U	0.073 U	0.0075 U	0.045	0.65	0.5	0.48	0.74	5.7	0.65	0.8	0.31	0.063
Phenanthrene	100	13.6	-	0.008 U	0.089 U	0.0083	0.047	0.12	-	0.078	0.93	0.0095	0.051	8.8	7.3	1.3	12.5	276	2.7	10	0.37	0.064
Pyrene	100	16	-	0.038	0.45	0.079	0.07	0.15	-	0.077 U	0.66	0.16	0.052	15.7	10.1	1	13.8	318	4.6	14.6	0.18	0.1
Total PAHs	500 (c)	120.42	-	0.181	1.315	0.2173	0.443	0.944	-	0.156	2.314	0.3759	0.5935	111.16	63	8.895	96.1	1,401	38.58	86.08	2.111	0.8175
PCBs (mg/kg)																						
Aroclor 1016	-	-	-	0.02 U	0.022 U	0.019 U	0.019 U	0.053 U	-	0.099 U	0.091 U	0.095 U	0.018 U	0.2 U	0.21 U	0.11 U	0.2 U	0.37 U	0.19 U	0.39 U	0.1 U	0.019 U
Aroclor 1221	-	-	-	0.02 U	0.022 U	0.019 U	0.019 U	0.053 U	-	0.099 U	0.091 U	0.095 U	0.018 U	0.2 U	0.21 U	0.11 U	0.2 U	0.37 U	0.19 U	0.39 U	0.1 U	0.019 U
Aroclor 1232	-	-	-	0.02 U	0.022 U	0.019 U	0.019 U	0.053 U	-	0.099 U	0.091 U	0.095 U	0.018 U	0.2 U	0.21 U	0.11 U	0.2 U	0.37 U	0.19 U	0.39 U	0.1 U	0.019 U
Aroclor 1242	-	-	-	0.02 U	0.022 U	0.019 U	0.019 U	0.053 U	-	0.099 U	0.091 U	0.095 U	0.018 U	0.2 U	0.21 U	0.11 U	0.2 U	0.37 U	0.19 U	0.39 U	0.1 U	0.019 U
Aroclor 1248	-	-	-	0.02 U	0.022 U	0.019 U	0.019 U	0.053 U	-	0.099 U	0.091 U	0.095 U	0.018 U	0.2 U	0.21 U	0.11 U	0.2 U	0.37 U	0.19 U	0.39 U	0.1 U	0.019 U
Aroclor 1254	-	-	-	0.02 U	0.022 U	0.019 U	0.019 U	0.053 U	-	0.099 U	0.091 U	0.095 U	0.018 U	1.1	0.28	0.11 U	0.42	0.37 U	0.19 U	0.39 U	0.1 U	0.019 U
Aroclor 1260	-	-	-	0.02 U	0.022 U	0.019 U	0.019 U	0.091	-	0.099 U	0.091 U	0.095 U	0.018 U	0.9	0.21	0.11 U	0.3	0.37 U	0.19 U	0.39 U	0.1 U	0.019 U
Total PCBs	1	-	-	-	-	-	-	0.091	-	-	-	-	-	2	0.49	-	0.72	-	-	-	-	-
Metals (mg/kg)																						
Arsenic	16	-	-	3.1	11.7	9.8	5.7	90.3	-	-	-	-	4.2	28.2	70.3	89.5	13.4	42.7	55.5	209	21.8	32.8
Barium	400	-	-	58.3	365	67.7	47.2	205	-	-	-	-	44.4	139	210	196	66.8	146	138	123	101	50.9
Cadmium	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	400	-	-	7.9	145	13.8	14.3	173	-	-	-	-	18.4	138	94.2	136	46.5	142	440	102	74.2	17.7
Mercury	0.81	-	-	0.12 U	0.12 U	0.12 U	0.12 U	0.52	-	-	-	-	0.11 U	5.6	0.48	0.78	0.35	0.24	0.32	0.37	0.13	0.11 U
Selenium	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XRF (mg/kg)																						
Arsenic	-	-	-	-	ND	ND	-	-	-	-	-	-	19 ± 6	40 ± 8	67 ± 7	36 ± 8	24 ± 7	ND	20 ± 11	-	-	19 ± 6
Barium	-	-	-	-	309 ± 41	ND	-	-	-	-	-	-	ND	ND	ND	ND	ND	167 ± 45	ND	-	-	ND
Cadmium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	-	-	-	-	137 ± 11	41 ± 7	-	-	-	-	-	-	35 ± 7	84 ± 10	52 ± 8	30 ± 9	67 ± 9	35 ± 8	310 ± 14	-	-	35 ± 7
Mercury	-	-	-	-	ND	ND	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	-	-	ND
Cyanide (mg/kg)	27	-	4.8	-	-	-	-	-	24.5	10.9	5.7	19.8 U	-	-	-	-	-	-	-	-	-	-

Boxed value exceeds RR
Gray shading indicates soil was removed

Table 8

AOC 32 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:		DS-59-SW	DS-60-NW	DS-61-SW	DS-62-NW	DS-63-NW
Sample Depth (ft-bgs):		1	2	0.75	1.25	1.5
Sample Date:		08/09/19	08/19/19	08/19/19	08/28/19	08/28/19
	SCOs (b) RR					
PAHs (mg/kg)						
Acenaphthene	100	0.015	0.04	0.026 U	0.26	0.15
Acenaphthylene	100	0.062	0.08	0.5	0.093	0.31
Anthracene	100	0.059	0.1	0.082	0.66	0.47
Benzo(a)anthracene	1	0.19	0.062	0.22	2.1	1.3
Benzo(a)pyrene	1	0.12	0.059	0.18	1.6	1
Benzo(b)fluoranthene	1	0.3	0.12	0.39	2.8	2.4
Benzo(g,h,i)perylene	100	0.023	0.042	0.077	0.56	0.35
Benzo(k)fluoranthene	3.9	0.27	0.032	0.32	0.96	0.66
Chrysene	3.9	0.15	0.081	0.2	1.9	1.7
Dibenzo(a,h)anthracene	0.33	0.015	0.018	0.029	0.24	0.18
Fluoranthene	100	0.35	0.13	0.41	4.2	2.4
Fluorene	100	0.022	0.064	0.063	0.25	0.2
Indeno(1,2,3-cd)pyrene	0.5	0.033	0.041	0.075	0.61	0.4
Naphthalene	100	0.095	0.19	0.88	0.14	0.4
Phenanthrene	100	0.19	0.11	0.28	3.3	2
Pyrene	100	0.27	0.14	0.37	3.4	1.6
Total PAHs	500 (c)	2.164	1.309	4.076	23.073	15.52
PCBs (mg/kg)						
Aroclor 1016	-	0.11 U	0.02 U	0.064 U	0.36 U	0.22 U
Aroclor 1221	-	0.11 U	0.02 U	0.064 U	0.36 U	0.22 U
Aroclor 1232	-	0.11 U	0.02 U	0.064 U	0.36 U	0.22 U
Aroclor 1242	-	0.11 U	0.02 U	0.064 U	0.36 U	0.22 U
Aroclor 1248	-	0.11 U	0.02 U	0.064 U	0.36 U	0.22 U
Aroclor 1254	-	0.11 U	0.02 U	0.064 U	0.36 U	0.22 U
Aroclor 1260	-	0.11 U	0.02 U	0.064 U	0.36 U	0.22 U
Total PCBs	1	-	-	-	-	-
Metals (mg/kg)						
Arsenic	16	153	2.3	198	7	21.4
Barium	400	345	34.1	335	78	109
Cadmium	4.3	-	-	-	-	-
Chromium	180	-	-	-	-	-
Lead	400	89.3	16.2	50.3	36.1	168
Mercury	0.81	0.25	0.12 U	0.54	0.1 U	0.12
Selenium	180	-	-	-	-	-
Silver	180	-	-	-	-	-
XRF (mg/kg)						
Arsenic	-	-	ND	162 ± 11	-	-
Barium	-	-	62 ± 38	ND	-	-
Cadmium	-	-	-	-	-	-
Lead	-	-	18 ± 6	29 ± 9	-	-
Mercury	-	-	ND	8 ± 5	-	-
Cyanide (mg/kg)	27	-	-	-	-	-

a/ ft-bgs = feet below ground surface; SCOs = soil cleanup objectives; RR = restricted residential; mg/kg = milligrams per kilogram; PAHs = polycyclic aromatic hydrocarbons; PCBs = polychlorinated biphenyls; XRF = X-ray fluorescence; D = duplicate of previous sample; "-" = not analyzed, not applicable or not available; ND = not detected.
b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
c/ New York State Department of Environmental Conservation Final Commissioner Policy (CP-51). Subsurface Soil Cleanup for Total PAHs. October 21, 2010. The policy established an alternative cleanup level of 500 mg/kg total PAHs for non-residential sites; total PAHs are the sum of the individual PAHs.
d/ Data Qualifiers:
U = not detected
J = estimated concentration above the method detection limit, but below the reporting limit
e/ Sample collected to delineate oil seepage from AOC 35G.

Boxed value exceeds RR
Gray shading indicates soil was removed

Table 9

AOC 34 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:	SCOs (e)		WSP-SB-622			34-01				34-04		CS-1-EW	CS-2-WW	CS-3-BT	DS-1-SW	DS-2-BT	CS-4-EW	CS-5-WW	DS-3-SW	DS-4-BT	P1	P2	P3	P100 (D)	P4	S4
Sample Depth (ft-bgs)(b):			0-2	2-2.5	4-5	0-0.17	0.3-0.5	0.5-2	1.8-2	0-0.17	0.17-2	1-2	0.5-1.5 (1)	2	0.5-1.5	2	1-2	1-2	1-2	2	0-2.0 (0.75)	0-2.0 (0.5)	0-2.0 (1.75)	0-2.0 (1.75)	0-2.0	0-2.0
PID (ppm):			-	-	-	-	-	-	-	-	-	-	0.6	0.3	-	-	-	-	-	-	0.3	0.1	0.1	0.1	-	-
Sample Date:			04/30/14	04/30/14	04/30/14	11/20/15	11/20/15	11/20/15	11/20/15	11/30/15	11/30/15	11/14/18	11/14/18	11/14/18	11/14/18	11/14/18	11/29/18	11/29/18	11/29/18	11/29/18	04/02/19	04/02/19	04/02/19	04/02/19	04/02/19	04/02/19
	RR	PoG																								
CVOCs (mg/kg)																										
1,1,1-Trichloroethane	100	0.68	0.012 U	0.013 U	0.0003 U	0.0022 U	-	-	0.0019 U	0.0034 U	0.0025 U	-	0.0049 U (e)	0.0043 U	-	-	-	-	-	-	0.0028 U	0.0027 U	0.003 U	0.0028 U	-	-
1,1-Dichloroethene	100	0.33	-	-	-	0.0022 U	-	-	0.0019 U	0.0034 U	0.0025 U	-	0.0049 U	0.0043 U	-	-	-	-	-	-	0.0028 U	0.0027 U	0.003 U	0.0028 U	-	-
1,2-Dichloroethane	3.1	0.02	-	-	-	0.0022 U	-	-	0.0019 U	0.0034 U	0.0025 U	-	0.0049 U	0.0043 U	-	-	-	-	-	-	0.0028 U	0.0027 U	0.003 U	0.0028 U	-	-
cis-1,2-Dichloroethene	100	0.25	0.025 U	0.026 U	0.0005 U	0.0022 U	-	-	0.0019 U	0.0034 U	0.0025 U	-	0.0049 U	0.0043 U	-	-	-	-	-	-	0.0028 U	0.0027 U	0.017	0.019	-	-
Tetrachloroethene	19	1.3	1.26	0.686	0.0058	0.0022 U	-	-	0.0006 J	0.0109	0.0176	-	0.0049 U	0.0043 U	-	-	-	-	-	-	0.0028 U	0.0027 U	0.897	1.17	-	-
trans-1,2-Dichloroethene	100	0.19	0.023 U	0.024 U	0.0005 U	0.0022 U	-	-	0.0019 U	0.0034 U	0.0025 U	-	0.0049 U	0.0043 U	-	-	-	-	-	-	0.0056 U	0.0054 U	0.006 U	0.0057 U	-	-
Trichloroethene	21	0.47	0.014 U	0.014 U	0.0003 U	0.0022 U	-	-	0.0019 U	0.0034 U	0.0025 U	-	0.0049 U	0.0043 U	-	-	-	-	-	-	0.0011 U	0.0011 U	0.0207	0.0254	-	-
Vinyl chloride	0.9	0.02	0.05 U	0.053 U	0.0011 U	0.0022 U	-	-	0.0019 U	0.0034 U	0.0025 U	-	0.0049 U	0.0043 U	-	-	-	-	-	-	0.0028 U	0.0027 U	0.003 U	0.0028 U	-	-
PAHs (mg/kg)																										
Acenaphthene	100	-	-	-	-	-	2.1 U	0.149 J	-	1 U	0.11 U	90.4	0.1	-	0.2	0.073 U	517	0.089	6.1	0.31	0.0753	0.0007 J	0.0074	0.0152	2.44	0.0624
Acenaphthylene	100	-	-	-	-	-	2.1 U	1.07	-	1 U	0.11 U	8.4	0.098	-	0.7	0.073 U	21.9	0.082 U	0.86	0.072 U	0.0063 U	0.0065 U	0.0067 U	0.0068 U	0.133 U	0.0064 U
Anthracene	100	-	-	-	-	-	2.1 U	1.82	-	1 U	0.11 U	483	0.33	-	1.9	0.14	1,050	0.22	30.1	0.76	0.241	0.0017 J	0.0321	0.07	5.94	0.192
Benzo(a)anthracene	1	-	-	-	-	-	0.594 J	5.38	-	0.121 J	0.028 J	869	1.3	-	7.9	0.45	3,010	0.56	53.6	2.4	0.93	0.0087	0.106	0.237	9.75	0.698
Benzo(a)pyrene	1	-	-	-	-	-	0.802 J	5.02	-	1 U	0.0249 J	662	1.2	-	6.1	0.37	1,390	0.49	44.5	2.2	0.843	0.0092	0.0982	0.209	7.9	0.502
Benzo(b)fluoranthene	1	-	-	-	-	-	0.726 J	4.59	-	1 U	0.0269 J	905	2	-	11.8	0.74	3,320	0.56	65.1	2.7	1.11	0.0145	0.136	0.274	9.89	0.665
Benzo(g,h,i)perylene	100	-	-	-	-	-	0.493 J	2.72	-	1 U	0.0327 J	330	0.49	-	2.4	0.14	685	0.27	13.9	1.3	0.522	0.009	0.0659	0.131	3.92	0.283
Benzo(k)fluoranthene	3.9	-	-	-	-	-	0.631 J	4.78	-	1 U	0.0247 J	358	0.84	-	3.9	0.21	688	0.32	35.6	1.7	0.317	0.0039 J	0.0457	0.0992	3.21	0.211
Chrysene	3.9	-	-	-	-	-	0.718 J	5.28	-	0.144 J	0.0286 J	792	1.2	-	7.3	0.54	1,530	0.55	51.9	2.5	0.71	0.0099	0.0903	0.196	7.81	0.504
Dibenzo(a,h)anthracene	0.3	-	-	-	-	-	2.1 U	1.05	-	1 U	0.11 U	143	0.17	-	0.96	0.073 U	401	0.093	6.6	0.45	0.168	0.0018 J	0.0179	0.0392	1.5	0.0917
Fluoranthene	100	-	-	-	-	-	0.881 J	11.8	-	0.19 J	0.0429 J	682	2.1	-	31.6	0.9	7,000	1.2	127	5.1	1.57	0.0183	0.249	0.523	25	1.14
Fluorene	100	-	-	-	-	-	2.1 U	0.624	-	1 U	0.11 U	85.8	0.1	-	0.71	0.073 U	536	0.082 U	6.1	0.26	0.0806	0.0009 J	0.0165	0.0305	2.56	0.054
Indeno(1,2,3-cd)pyrene	0.5	-	-	-	-	-	2.1 U	2.59	-	1 U	0.11 U	314	0.47	-	2.6	0.12	702	0.24	13.9	1.1	0.484	0.0062 J	0.0598	0.123	3.97	0.253
Naphthalene	100	-	-	-	-	-	2.1 U	0.104 J	-	1 U	0.11 U	26.9	0.073 U	-	0.12	0.17	136	0.082 U	1.2	0.12	0.0522	0.0024 J	0.0034 J	0.006 J	1.01	0.0104 J
Phenanthrene	100	-	-	-	-	-	0.784 J	6.6	-	0.146 J	0.0303 J	660	1	-	7.7	0.75	5,390	0.84	103	3.3	0.767	0.0081	0.155	0.313	19.8	0.686
Pyrene	100	-	-	-	-	-	1.13 J	9.41	-	0.196 J	0.0417 J	1,410	1.8	-	10.6	0.69	5,720	0.99	92.1	4.4	1.3	0.0143	0.18	0.386	14.4	0.901
Total PAHs	500 (d)	-	-	-	-	-	6.8	63.0	-	0.8	0.3	7,820	13.2	-	96.5	5.2	32,097	6.4	651.6	28.7	9.2	0.1	1.3	2.7	119.1	6.3

Boxed value exceeds RR
Bold italic value exceeds PoG
Gray shading indicates soil was removed

Table 9

AOC 34 Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:			**S5**	**CS-6-BT**	**CS-7-EW**	**CS-8-BT**	**CS-9-WW**	**DS-5-SW**	**DS-6-SW**	**DS-7-EW**	**DS-8-BT**
Sample Depth (ft-bgs)(b):			**0-2.0**	**2**	**2**	**3**	**0-2 (1.5)**	**0 - 2.0**	**0 - 2.0**	**0 - 2.0**	**2**
PID (ppm):			**-**	**2.2**	**0.3**	**-**	**0**	**-**	**-**	**-**	**-**
Sample Date:			**04/02/19**	**05/16/19**	**05/16/19**	**05/16/19**	**05/16/19**	**05/15/19**	**05/15/19**	**05/15/19**	**05/15/19**
	SCOs (e)										
	RR	**PoG**									
CVOCs (mg/kg)											
1,1,1-Trichloroethane	100	0.68	-	0.0045 U	0.0061 U	0.0059 U	0.0051 U	-	-	-	-
1,1-Dichloroethene	100	0.33	-	0.0045 U	0.0061 U	0.0059 U	0.0051 U	-	-	-	-
1,2-Dichloroethane	3.1	0.02	-	0.0045 U	0.0061 U	0.0059 U	0.0051 U	-	-	-	-
cis-1,2-Dichloroethene	100	0.25	-	0.0045 U	0.0061 U	0.0059 U	0.0051 U	-	-	-	-
Tetrachloroethene	19	1.3	-	0.0098	0.073	0.06	0.0051 U	-	-	-	-
trans-1,2-Dichloroethene	100	0.19	-	0.0045 U	0.0061 U	0.0059 U	0.0051 U	-	-	-	-
Trichloroethene	21	0.47	-	0.0045 U	0.0061 U	0.0059 U	0.0051 U	-	-	-	-
Vinyl chloride	0.9	0.02	-	0.0045 U	0.0061 U	0.0059 U	0.0051 U	-	-	-	-
PAHs (mg/kg)											
Acenaphthene	100	-	3.19	0.0075 U	-	-	-	0.8	0.007 U	0.012	0.17
Acenaphthylene	100	-	0.0065 U	0.0075 U	-	-	-	0.26	0.007 U	0.038	0.024
Anthracene	100	-	9.12 E	0.0075 U	-	-	-	3.1	0.007 U	0.092	0.51
Benzo(a)anthracene	1	-	28.8	0.0075 U	-	-	-	12.4	0.012	0.31	0.97
Benzo(a)pyrene	1	-	21.6	0.0075 U	-	-	-	11.2	0.01	0.26	0.74
Benzo(b)fluoranthene	1	-	28	0.0075 U	-	-	-	14.5	0.017	0.59	1.5
Benzo(g,h,i)perylene	100	-	10.7	0.0075 U	-	-	-	3.6	0.007 U	0.13	0.21
Benzo(k)fluoranthene	3.9	-	9.94	0.0075 U	-	-	-	5.1	0.0072	0.52	1.3
Chrysene	3.9	-	26	0.0075 U	-	-	-	9.4	0.011	0.29	0.73
Dibenzo(a,h)anthracene	0.3	-	3.38	0.0075 U	-	-	-	1.6	0.007 U	0.045	0.1
Fluoranthene	100	-	23.7 E	0.0075 U	-	-	-	19.5	0.018	0.62	1.8
Fluorene	100	-	3.32	0.0075 U	-	-	-	0.66	0.007 U	0.035	0.17
Indeno(1,2,3-cd)pyrene	0.5	-	10.2	0.0075 U	-	-	-	4	0.007 U	0.12	0.25
Naphthalene	100	-	0.0768	0.0075 U	-	-	-	0.2	0.007 U	0.043	0.11
Phenanthrene	100	-	21.3 E	0.0075 U	-	-	-	10.3	0.0099	0.41	1.6
Pyrene	100	-	45.4	0.0075 U	-	-	-	15.7	0.015	0.44	1.4
Total PAHs	500 (d)	-	244.7	0.0075 U				112.3	0.1	4.0	11.6

a/ ft-bgs = feet below ground surface; PID = photoionization detector; ppm = parts per million; SCOs = soil cleanup objectives; RR = restricted residential; PoG = protection of groundwater; mg/kg = milligrams per kilogram; CVOCs = chlorinated volatile organic compounds; PAH = polycyclic aromatic hydrocarbons; "-" = not analyzed, not applicable or not available.
b/ VOC sample depths shown in parentheses if different than other analytes.
c/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
d/ New York State Department of Environmental Conservation Final Commissioner Policy (CP-51). Subsurface Soil Cleanup for Total PAHs. October 21, 2010. The policy established an alternative cleanup level of 500 mg/kg total PAHs for non-residential sites; total PAHs are the sum of the individual PAHs.
e/ Data Qualifiers:
U = not detected
J = estimated concentration above the method detection limit, but below the reporting limit
E = estimated concentration above the instrument calibration range

Boxed value exceeds RR
Bold italic value exceeds PoG
Gray shading indicates soil was removed

Table 10

AOC 35A Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:		LBA-TP-18	CS-1-WW	CS-2-EW	DS-1-BT	P1	P2	P3	P100 (D)	P4	P5	TPP-1	TPP-2	TPP-3
Sample Depth (ft-bgs)(d):		4	1.5 - 2	1.5 - 2	3	0-2.0	0-2.0	0-2.0	0-2.0	0-2.0	0-2.0	1.25-2	1.5 - 2	1-2
Sample Date:		08/09/13	11/07/18	11/07/18	11/07/18	04/01/19	04/02/19	04/02/19	04/02/19	04/01/19	04/01/19	06/24/19	06/24/19	06/24/19
	SCOs (b) RR													
Metals (mg/kg)														
Arsenic	16	6.3	393	167	347	4.2 B	2.7 B	7.69	5.82 B	10.2	6.88	10.9	27.4	10.7
Barium	400	50	173	94.1	166	-	-	-	-	-	-	-	-	-
Cadmium	4.3	0.032 J(c)	0.33 U	0.34 U	0.38 U	-	-	-	-	-	-	-	-	-
Chromium	180	5.7 J	20.1	10.6	17.1	-	-	-	-	-	-	-	-	-
Lead	400	19	35	19	47.3	-	-	-	-	-	-	-	-	-
Mercury	0.81	0.042	0.5	0.11 U	0.43	-	-	-	-	-	-	-	-	-
Selenium	180	1.3 J	8.3	3.8	6.1	-	-	-	-	-	-	-	-	-
Silver	180	1.3 U	0.67 U	0.68 U	0.76 U	-	-	-	-	-	-	-	-	-
XRF (mg/kg)														
Arsenic	-	-	-	-	-	6.5 ± 1.7	16 ± 2	10 ± 1.6	10 ± 1.6	23.2 ± 2	17 ± 2	-	-	-

Sample Location:		TPP-4	TPP-5
Sample Depth (ft-bgs):		0.25-2	1-2
Sample Date:		06/24/19	06/24/19
	SCOs (b) RR		
Metals (mg/kg)			
Arsenic	16	45.5	61.3
Barium	400	-	-
Cadmium	4.3	-	-
Chromium	180	-	-
Lead	400	-	-
Mercury	0.81	-	-
Selenium	180	-	-
Silver	180	-	-

a/ ft-bgs = feet below ground surface; SCOs = soil cleanup objectives; RR = restricted residential; mg/kg = milligrams per kilogram; XRF = X-ray fluorescence; D = duplicate of previous sample; "-" = not analyzed.
b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
c/ Data Qualifiers:
U = not detected
J = estimated concentration above the method detection limit, but below the reporting limit
B = analyte found in associated blank
d/ Sample depths measured at the time of sampling (i.e., before placement of soil cover).

Boxed value exceeds RR
Bold italic value exceeds PoG
Gray shading indicates soil was removed

Table 11

AOC 35C Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

		Sample Location:	**35-37**	**35-38**	**35-39**	**CS-1-SW**	**CS-2-SW**	**CS-3-EW**	**CS-4-EW**	**CS-400-EW (D)**	**DS-1- NW**
		Sample Depth (ft-bgs)(b):	**0-0.17**	**0-0.17**	**0-1**	**1.75 - 2.25 (2)**	**0.5 - 1 (0.75)**	**0.5 - 1.5 (1)**	**1.25 - 2.25 (1.75)**	**1.25 - 2.25 (1.75)**	**4 - 5 (4.5)**
		PID (ppm):	**-**	**-**	**-**	**0**	**0**	**0**	**0**	**0**	**0**
		Sample Date:	**03/02/16**	**03/02/16**	**03/02/16**	**11/27/18**	**11/27/18**	**11/29/18**	**11/29/18**	**11/29/18**	**11/30/18**
	SCOs (c)										
	RR	**PoG**									
CVOCs (mg/kg)											
1,1,1-Trichloroethane	100	0.68	0.002	0.0049	0.0284	0.0077 U	0.0048 U	0.0048 U	0.0059	0.0042 U	0.025
1,1-Dichloroethene	100	0.33	0.002 U(e)	0.0023 U	0.0019 U	0.0077 U	0.0048 U	0.0048 U	0.0047 U	0.0042 U	0.0048 U
1,2-Dichloroethane	3.1	0.02	0.002 U	0.0023 U	0.0019 U	0.0077 U	0.0048 U	0.0048 U	0.0047 U	0.0042 U	0.0048 U
cis-1,2-Dichloroethene	100	0.25	0.002 U	0.0023 U	0.0019 U	0.0077 U	0.0048 U	0.0048 U	0.0047 U	0.0042 U	0.02
Tetrachloroethene	19	1.3	0.00097 J	0.001 J	0.0014 J	0.0077 U	0.0048 U	0.0048 U	0.012	0.0042 U	0.0081
trans-1,2-Dichloroethene	100	0.19	0.002 U	0.0023 U	0.0019 U	0.0077 U	0.0048 U	0.0048 U	0.0047 U	0.0042 U	0.0048 U
Trichloroethene	21	0.47	0.0086	0.0142	0.0133	0.0077 U	0.0048 U	0.0048 U	0.0047 U	0.0042 U	0.061
Vinyl chloride	0.9	0.02	0.002 U	0.0023 U	0.0019 U	0.0077 U	0.0048 U	0.0048 U	0.0047 U	0.0042 U	0.0048 U
PAHs (mg/kg)											
Acenaphthene	100	-	-	-	-	0.5	0.38	1.9	0.74	0.44	5.5
Acenaphthylene	100	-	-	-	-	0.1	0.033	0.69	0.15	0.083	0.28
Anthracene	100	-	-	-	-	1.2	1.1	5.5	1.9	1.2	24.1
Benzo(a)anthracene	1	-	-	-	-	3.9	2.8	9.4	4.8	3	39.4
Benzo(a)pyrene	1	-	-	-	-	3.2	2.2	8.2	3.7	2.7	33
Benzo(b)fluoranthene	1	-	-	-	-	4.4	3.5	11.6	5.5	3.9	51.5
Benzo(g,h,i)perylene	100	-	-	-	-	0.9	0.5	3.0	1.5	1.0	6.3
Benzo(k)fluoranthene	3.9	-	-	-	-	2.2	1.4	5.5	2.8	2.2	21.3
Chrysene	3.9	-	-	-	-	3.5	2.4	11.1	5	3	38
Dibenzo(a,h)anthracene	0.3	-	-	-	-	0.54	0.26	1.3	0.6	0.36	2.6
Fluoranthene	100	-	-	-	-	7.1	5.7	36	9.1	7.4	92.9
Fluorene	100	-	-	-	-	0.56	0.6	2.9	0.67	0.4	3.8
Indeno(1,2,3-cd)pyrene	0.5	-	-	-	-	1.1	0.54	3	1.5	0.97	6.2
Naphthalene	100	-	-	-	-	0.23	0.61	3.2	0.22	0.16	2.7
Phenanthrene	100	-	-	-	-	5.7	5.1	31.8	7.4	4.4	89.4
Pyrene	100	-	-	-	-	6.1	4.7	28.7	7.3	6.1	77.8
Total PAHs	500 (d)	-	-	-	-	41.3	31.8	163.8	52.9	37.3	494.8

a/ ft-bgs = feet below ground surface; PID = photoionization detector; ppm = parts per million; SCOs = soil cleanup objectives; RR = restricted residential; PoG = protection of groundwater; mg/kg = milligrams per kilogram; CVOCs = chlorinated volatile organic compounds; PAHs = polycyclic aromatic hydrocarbons; D = duplicate of previous sample; "-" = not analyzed, not applicable or not available.
b/ VOC sample depths shown in parentheses if different than other analytes.
c/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
d/ New York State Department of Environmental Conservation Final Commissioner Policy (CP-51). Subsurface Soil Cleanup for Total PAHs. October 21, 2010. The policy established an alternative cleanup level of 500 mg/kg total PAHs for non-residential sites; total PAHs are the sum of the individual PAHs.
e/ Data Qualifiers:
U = not detected

Boxed value exceeds RR
Bold italic value exceeds PoG
Gray shading indicates soil was removed

Table 12

AOC 35D Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:		**35-10**		**35-11**		**35-12**	
Sample Depth (ft-bgs):		**0 - 0.17**	**0.17 - 1.1**	**0 - 0.17**	**0.17 - 1.1**	**0 - 0.17**	**0.17 - 1.1**
Sample Date:		**12/02/15**	**12/02/15**	**12/02/15**	**12/02/15**	**12/02/15**	**12/02/15**
	SCOs (b)						
	RR						
PAHs (mg/kg)							
Acenaphthene	100	0.14 U	0.0288 J	0.0328 J	0.12 U	0.0211 J	0.0289 J
Acenaphthylene	100	0.0563 J	0.0281 J	0.114 J	0.0246 J	0.194	0.185
Anthracene	100	0.0738 J	0.0895 J	0.15	0.0407 J	0.194	0.197
Benzo(a)anthracene	1	0.23	0.232	0.392	0.112 J	0.458	0.459
Benzo(a)pyrene	1	0.235	0.218	0.397	0.115 J	0.451	0.472
Benzo(b)fluoranthene	1	0.209	0.208	0.318	0.1 J	0.353	0.424
Benzo(g,h,i)perylene	100	0.151	0.141	0.254	0.0789 J	0.259	0.282
Benzo(k)fluoranthene	3.9	0.177	0.182	0.36	0.0979 J	0.372	0.324
Chrysene	3.9	0.266	0.265	0.465	0.13	0.548	0.562
Dibenzo(a,h)anthracene	0.33	0.0555 J	0.0492 J	0.089 J	0.0266 J	0.0938 J	0.0962 J
Fluoranthene	100	0.39	0.441	0.694	0.187	0.727	0.744
Fluorene	100	0.0237 J	0.0214 J	0.0297 J	0.12 U	0.0247 J	0.0272 J
Indeno(1,2,3-cd)pyrene	0.5	0.131 J	0.122	0.221	0.0699 J	0.221	0.224
Naphthalene	100	0.14 U	0.12 U	0.0243 J	0.12 U	0.0275 J	0.0322 J
Phenanthrene	100	0.248	0.348	0.453	0.12	0.44	0.484
Pyrene	100	0.46	0.476	0.763	0.227	0.908	0.98
Total PAHs	500 (c)	2.71	2.85	4.8	1.3	5.3	5.5

a/ ft-bgs = feet below ground surface; SCOs = soil cleanup objectives; RR = restricted residential; mg/kg = milligrams per kilogram; PAHs = polycyclic aromatic hydrocarbons.

b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.

c/ New York State Department of Environmental Conservation Final Commissioner Policy (CP-51). Subsurface Soil Cleanup for Total PAHs. October 21, 2010. The policy established an alternative cleanup level of 500 mg/kg total PAHs for non-residential sites; total PAHs are the sum of the individual PAHs.

d/ Data Qualifiers:
U = not detected
J = estimated concentration above the method detection limit, but below the reporting limit

Boxed value exceeds RR
Gray shading indicates soil was removed

Table 13

AOC 35G Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

	SCOs (b)											
Sample Location:			**CS-1-SW**	**CS-2-EW**	**CS-3-EW**	**DS-1-BT**	**S-1-BT (d)**	**CS-4-SW**	**CS-5-WW**	**CS-6-WW**	**DS-2-WW**	**DS-3-BT**
Sample Depth (ft-bgs):			**0.75 - 1.75**	**0.75 - 1.5**	**0.75 - 1.5**	**2**	**1**	**1.5 - 2**	**0.5 - 1.5**	**0.25 - 1.25**	**1 - 2**	**4.5**
PID (ppm):			-	-	-	-	**40**	-	-	-	-	-
Sample Date:			**11/19/18**	**11/19/18**	**11/19/18**	**11/19/18**	**11/19/18**	**11/20/18**	**11/20/18**	**11/20/18**	**11/20/18**	**07/17/19**
	RR	**PoG**										
CVOCs (mg/kg)												
1,1,1-Trichloroethane	100	0.68	-	-	-	-	0.0074 U	-	-	-	-	-
1,1-Dichloroethene	100	0.33	-	-	-	-	0.0074 U	-	-	-	-	-
1,2-Dichloroethane	3.1	0.02	-	-	-	-	0.0074 U	-	-	-	-	-
cis-1,2-Dichloroethene	100	0.25	-	-	-	-	***0.28***	-	-	-	-	-
Tetrachloroethene	19	1.3	-	-	-	-	0.0074 U	-	-	-	-	-
trans-1,2-Dichloroethene	100	0.19	-	-	-	-	0.0074 U	-	-	-	-	-
Trichloroethene	21	0.47	-	-	-	-	0.02	-	-	-	-	-
Vinyl chloride	0.9	0.02	-	-	-	-	***0.03***	-	-	-	-	-
PAHs (mg/kg)												
Acenaphthene	100	-	-	-	-	-	2.2	-	-	-	-	0.035
Acenaphthylene	100	-	-	-	-	-	0.94 U	-	-	-	-	0.013
Anthracene	100	-	-	-	-	-	3.2	-	-	-	-	0.042
Benzo(a)anthracene	1	-	-	-	-	-	1.6	-	-	-	-	0.012
Benzo(a)pyrene	1	-	-	-	-	-	1.2	-	-	-	-	0.0081 U
Benzo(b)fluoranthene	1	-	-	-	-	-	2.8	-	-	-	-	0.02
Benzo(g,h,i)perylene	100	-	-	-	-	-	0.9 U	-	-	-	-	0.0 U
Benzo(k)fluoranthene	3.9	-	-	-	-	-	2.4	-	-	-	-	0.017
Chrysene	3.9	-	-	-	-	-	4.6	-	-	-	-	0.053
Dibenzo(a,h)anthracene	0.33	-	-	-	-	-	0.94 U	-	-	-	-	0.0081 U
Fluoranthene	100	-	-	-	-	-	3.6	-	-	-	-	0.015
Fluorene	100	-	-	-	-	-	5.4	-	-	-	-	0.066
Indeno(1,2,3-cd)pyrene	0.5	-	-	-	-	-	0.94 U	-	-	-	-	0.0081 U
Naphthalene	100	-	-	-	-	-	23.1	-	-	-	-	0.79
Phenanthrene	100	-	-	-	-	-	14	-	-	-	-	0.14
Pyrene	100	-	-	-	-	-	5.2	-	-	-	-	0.022
Total PAHs	500 (c)		-	-	-	-	69.3	-	-	-	-	1.23
PCBs (mg/kg)												
Aroclor 1016	-	-	-	-	-	-	1.2 U	-	-	-	-	0.1 U
Aroclor 1221	-	-	-	-	-	-	1.2 U	-	-	-	-	0.1 U
Aroclor 1232	-	-	-	-	-	-	1.2 U	-	-	-	-	0.1 U
Aroclor 1242	-	-	-	-	-	-	1.2 U	-	-	-	-	0.1 U
Aroclor 1248	-	-	-	-	-	-	1.2 U	-	-	-	-	0.1 U
Aroclor 1254	-	-	-	-	-	-	14.6	-	-	-	-	0.68
Aroclor 1260	-	-	-	-	-	-	1.2 U	-	-	-	-	0.1 U
Total PCBs	1	-	-	-	-	-	14.6	-	-	-	-	0.68
Metals (mg/kg)												
Arsenic	16	16	4.8	***17.9***	10.3	7	-	3.6	12.2	9.1	8.3	3.2
Barium	400	820	308	134	82.4	268	-	67	54.2	224	228	87.2
Cadmium	4.3	-	0.33 U	1.1	0.97	1.2	-	0.32 U	1.1	0.52	0.38	-
Lead	400	-	65.8	190	90.4	267	-	18.2	107	151	77.8	11.5
Mercury	0.81	-	-	-	-	-	-	-	-	-	-	0.12 U
XRF (mg/kg)												
Arsenic	-	-	24 ± 7	ND; <53	ND; <26	ND; <30	-	ND; <14	21 ± 6	ND; <19	ND; <17	42 ± 8
Barium	-	-	1,052 ± 240	ND; <466	ND; <491	619 ± 201	-	633 ± 162	ND; <404	518 ± 168	501 ± 155	68 ± 17
Cadmium	-	-	ND; <101	109 ± 31	ND; <93	ND; <97	-	ND; <88	97 ± 28	ND; <86	ND; <92	-
Lead	-	-	72 ± 8	1,408 ± 26	242 ± 11	303 ± 13	-	28 ± 6	111 ± 8	117 ± 8	106 ± 7	89 ± 14
Mercury	-	-	-	-	-	-	-	-	-	-	-	NR

a/ ft-bgs = feet below ground surface; PID = photoionization detector; ppm = parts per million; SCOs = soil cleanup objectives; RR = restricted residential; PoG = protection of groundwater; mg/kg = milligrams per kilogram; CVOCs = chlorinated volatile organic compounds; PAHs = polycyclic aromatic hydrocarbons; PCBs = polychlorinated biphenyls; XRF = X-ray fluorescence; "-" = not analyzed, not applicable or not available.
b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
c/ New York State Department of Environmental Conservation Final Commissioner Policy (CP-51). Subsurface Soil Cleanup for Total PAHs. October 21, 2010. The policy established an alternative cleanup level of 500 mg/kg total PAHs for non-residential sites; total PAHs are the sum of the individual PAHs.
d/ Sample of slag-like material collected for characterization.
e/ Data Qualifiers:
U = not detected

Boxed value exceeds RR
Bold italic value exceeds PoG
Gray shading indicates soil was removed

Table 14

AOC 35H Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:		35-34		CS-1-EW	CS-2-WW	DS-1-BT	DS-2-SW	DS-3-SW	CS-3-EW	CS-4-EW	P1	S1	S2	S3	DS-4-BT	DS-5-BT
Sample Depth (ft-bgs):		0 - 0.17	0.17 - 2	0.75 - 1.75	0.5 - 1.5	2	1.5 - 2	0.5 - 1.5	1.5 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0.2	0.3
Sample Date:		03/01/16	03/01/16	11/09/18	11/09/18	11/09/18	11/09/18	11/09/18	11/19/18	11/30/18	04/01/19	04/01/19	04/01/19	04/01/19	06/26/19	06/26/19
	SCOs (b) RR															
PAHs (mg/kg)																
Acenaphthene	100	0.64 U(d)	0.045 J	0.24	0.14 U	0.43	0.14 U	0.52	1.6	6	1.32	1.16	0.065 J	5	0.11	0.091
Acenaphthylene	100	0.64 U	0.034 J	0.15 U	0.14 U	0.28	0.14 U	0.15 U	0.14	0.25	0.165 U	0.032 U	0.128 U	0.135 U	0.031	0.021
Anthracene	100	0.64 U	0.117 J	0.72	0.14 U	1.6	0.37	1.3	2.6	13.4	2.06	1.59	0.151	6.68	0.25	0.15
Benzo(a)anthracene	1	0.269 J	0.424	2.4	0.23	5	1.5	4.7	6	45.5	4.1	5.01	0.467	20.5	1	0.62
Benzo(a)pyrene	1	0.303 J	0.415	2.4	0.24	4.6	1.5	4.6	5.3	37.5	3.8	3.92	0.481	16.3	0.87	0.63
Benzo(b)fluoranthene	1	0.331 J	0.372	3.6	0.33	6.6	2.1	7.4	8	55.5	4.53	5.56	0.628	21.2	2.3	2.3
Benzo(g,h,i)perylene	100	0.22 J	0.239	1.3	0.14 U	1.7	0.41	1.3	2.1	5.9	2.24	1.58	0.338	9.14	0.21	0.074
Benzo(k)fluoranthene	3.9	0.255 J	0.343	1.4	0.16	2.1	0.92	2.4	3	29	1.9	1.72	0.19	7.1	1.9	1.6
Chrysene	3.9	0.307 J	0.443	2.3	0.25	4.6	1.3	4.3	5.7	44.3	3.44	4.5	0.45	18.2	0.85	0.58
Dibenzo(a,h)anthracene	0.33	0.64 U	0.079 J	0.4	0.14 U	0.59	0.16	0.51	0.85	2.8	0.754	0.613	0.11 J	3.08	0.11	0.036
Fluoranthene	100	0.584 J	0.89	4.9	0.42	9.5	2.8	9.3	11.9	105	10.7	9.39	0.97	42.6	2.3	1.2
Fluorene	100	0.64 U	0.039 J	0.22	0.14 U	0.37	0.14 U	0.41	1.5	5.8	1.12	0.947	0.06 J	4.34	0.1	0.07
Indeno(1,2,3-cd)pyrene	0.5	0.64 U	0.2	1.2	0.14 U	1.5	0.42	1.4	2	6.3	2.1	1.71	0.263	8.56	0.27	0.09
Naphthalene	100	0.64 U	0.036 J	0.15 U	0.14 U	0.33	0.14 U	0.23	1.1	3	0.996	1.23	0.07 J	4.84	0.043	0.039
Phenanthrene	100	0.226 J	0.541	2.8	0.18	5.4	1.4	5.4	10.2	93.8	8.61	8.28	0.566	37.8	1	0.71
Pyrene	100	0.482 J	0.791	3.9	0.38	8.7	2.3	8	9.8	79.5	6.54	7.54	0.672	31.4	1.8	0.94
Total PAHs	500 (c)	3.0	5.0	27.8	2.2	53.3	15.2	51.8	71.8	533.6	54.2	54.8	5.5	236.7	13.1	9.2

a/ ft-bgs = feet below ground surface; SCOs = soil cleanup objectives; RR = restricted residential; mg/kg = milligrams per kilogram; PAHs = polycyclic aromatic hydrocarbons.
b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
c/ New York State Department of Environmental Conservation Final Commissioner Policy (CP-51). Subsurface Soil Cleanup for Total PAHs. October 21, 2010. The policy established an alternative cleanup level of 500 mg/kg total PAHs for non-residential sites; total PAHs are the sum of the individual PAHs.
d/ Data Qualifiers:
U = not detected
J = estimated concentration above the method detection limit, but below the reporting limit

Boxed value exceeds RR
Gray shading indicates soil was removed

Table 15

AOC 35K Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:		**35-24**		**35-25**	
Sample Depth (ft-bgs):		**0 - 0.17**	**0.17 - 2**	**0 - 0.17**	**0.17 - 2**
Sample Date:		**12/04/15**	**12/04/15**	**12/04/15**	**12/04/15**
	SCOs (b)				
	RR				
Metals (mg/kg)					
Arsenic	16	5.8	8.5	6.3	7.8
Barium	400	84.2	100	75.3	77.4
Cadmium	4.3	0.47	0.43	0.94	2.2
Chromium	180	12.2	15.9	21.7	21.4
Lead	400	48.5	47.1	56.4	69.4
Mercury	0.81	0.095	0.09	0.074	0.073
Selenium	180	1.1 U(c)	1.1 U	1 U	1 U
Silver	180	0.56 U	0.53 U	0.24 B	0.51 U

a/ ft-bgs = feet below ground surface; SCOs = soil cleanup objectives; RR = restricted residential; mg/kg = milligrams per kilogram; D = duplicate of previous sample; "-" = not analyzed.
b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
c/ Data Qualifiers:
U = not detected
J = estimated concentration above the method detection limit, but below the reporting limit
B = analyte found in associated blank

Boxed value exceeds RR
Bold italic value exceeds PoG
Gray shading indicates soil was removed

Table 16

AOC 35L Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:		**CS-1-WW**	**DS-1-SW**	**DS-2-SW**	**DS-3-NW**	**CS-2-EW**	**CS-100-EW (D)**
Sample Depth (ft-bgs):		**0 - 2.0**	**0 - 2.0**	**0 - 2.0**	**0 - 2.0**	**0 - 2.0**	**0 - 2.0**
Sample Date:		**05/22/19**	**05/22/19**	**05/22/19**	**05/22/19**	**05/23/19**	**05/23/19**
	SCOs (b) RR						
PAHs (mg/kg)							
Acenaphthene	100	0.043	0.0079 U (d)	0.0075 U	0.023	0.024	0.025
Acenaphthylene	100	0.34	0.0079 U	0.0075 U	0.12	0.29	0.24
Anthracene	100	0.62	0.0099	0.0083	0.14	0.43	0.47
Benzo(a)anthracene	1	0.99	0.048	0.031	0.33	0.4	0.45
Benzo(a)pyrene	1	0.69	0.046	0.028	0.21	0.3	0.36
Benzo(b)fluoranthene	1	2.2	0.094	0.061	0.66	1.6	2
Benzo(g,h,i)perylene	100	0.15	0.027	0.019	0.054	0.035	0.041
Benzo(k)fluoranthene	3.9	1.9	0.08	0.052	0.57	1.4	1.7
Chrysene	3.9	1.8	0.05	0.036	0.56	0.79	0.85
Dibenz(a,h)anthracene	0.33	0.077	0.0081	0.0075 U	0.033	0.013	0.023
Fluoranthene	100	3.6	0.089	0.061	0.63	0.96	1.2
Fluorene	100	0.06	0.0079 U	0.0075 U	0.03	0.044	0.04
Indeno(1,2,3-cd)pyrene	0.5	0.2	0.024	0.016	0.059	0.042	0.049
Naphthalene	100	0.24	0.0079 U	0.0075 U	0.16	0.35	0.28
Phenanthrene	100	0.76	0.053	0.038	0.82	0.59	0.67
Pyrene	100	3.4	0.075	0.054	0.62	0.86	1
Total PAHs	500 (c)	17.1	0.6	0.4	5.0	8.1	9.4

a/ ft-bgs = feet below ground surface; SCOs = soil cleanup objectives; RR = restricted residential; mg/kg = milligrams per kilogram; PAHs = polycyclic aromatic hydrocarbons.
b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
c/ New York State Department of Environmental Conservation Final Commissioner Policy (CP-51). Subsurface Soil Cleanup for Total PAHs. October 21, 2010. The policy established an alternative cleanup level of 500 mg/kg total PAHs for non-residential sites; total PAHs are the sum of the individual PAHs.
d/ Data Qualifiers:
U = not detected

Boxed value exceeds RR
Gray shading indicates soil was removed

Table 17

Sanitary Sewer Test Pit and Sewer Line Removal Soil Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample Location:	SCOs (b) RR	SCOs (b) PoG	Test Pit 1	Test Pit 1	Test Pit 2	Test Pit 3	Test Pit 4	Test Pit 5	Test Pit 7	Test Pit 8	Test Pit 9	Test Pit 9	Test Pit 11	Test Pit 12	Test Pit 12	Test Pit 13	Test Pit 13	Test Pit 16	Test Pit 17	Test Pit 17	Test Pit 21	Test Pit 21
Sample Depth (ft-bgs):			2.0 - 2.2	2.0 - 2.2	1.4 - 1.5	1.75 - 2.0	2.75 - 3.0	2.0 - 2.2	3.2 - 3.4	2.8 - 3.0	3.8 - 4.0	3.8 - 4.0	1.0 - 1.2	1.4 - 1.6	1.4 - 1.6	4.0 - 4.2	4.0 - 4.2	2.8 - 3.0	3.6 - 3.8	3.6 - 3.8	3.8 - 4.0	3.8 - 4.0
PID (ppm):			-	3	-	-	-	-	-	-	-	0.2	-	-	0	-	NR	-	-	1.2	0	-
Sample Date:			01/03/19	01/22/19	01/03/19	01/02/19	01/03/19	01/04/19	01/04/19	01/04/19	01/04/19	01/22/19	01/07/19	01/07/19	01/22/19	01/10/19	01/22/19	01/09/19	01/09/19	01/22/19	01/14/19	01/10/19
CVOCs (mg/kg)																						
1,1,1-Trichloroethane	100	0.68	-	0.0081 U	-	-	-	-	-	-	-	0.006 U	-	-	0.0076 U	-	0.014 U	-	-	0.009 U	0.0046 U	-
1,1-Dichloroethene	100	0.33	-	0.0081 U	-	-	-	-	-	-	-	0.006 U	-	-	0.0076 U	-	0.014 U	-	-	0.009 U	0.0046 U	-
1,2-Dichloroethane	3.1	0.02	-	0.0081 U	-	-	-	-	-	-	-	0.006 U	-	-	0.0076 U	-	0.014 U	-	-	0.009 U	0.0046 U	-
cis-1,2-Dichloroethene	100	0.25	-	0.0081 U	-	-	-	-	-	-	-	0.006 U	-	-	0.0076 U	-	0.014 U	-	-	0.009 U	0.0046 U	-
Tetrachloroethene	19	1.3	-	0.0081 U	-	-	-	-	-	-	-	0.006 U	-	-	0.0076 U	-	0.014 U	-	-	0.009 U	0.0046 U	-
trans-1,2-Dichloroethene	100	0.19	-	0.0081 U	-	-	-	-	-	-	-	0.006 U	-	-	0.0076 U	-	0.014 U	-	-	0.009 U	0.0046 U	-
Trichloroethene	21	0.47	-	0.0081 U	-	-	-	-	-	-	-	0.006 U	-	-	0.0076 U	-	0.014 U	-	-	0.009 U	0.0046 U	-
Vinyl chloride	0.9	0.02	-	0.0081 U	-	-	-	-	-	-	-	0.006 U	-	-	0.0076 U	-	0.014 U	-	-	0.009 U	0.0046 U	-
Metals (mg/kg)																						
Barium	400	820	760	-	435	***6,890***	***2,220***	34.9	***1,330***	303	132	-	***1,010***	54.7	-	138	-	99.2	146	-	-	89.4
Chromium	180	19	-	-	-	-	-	-	-	9.5	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4.3	7.5	-	-	-	-	-	-	-	0.35 U	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (mg/kg)	27	40	1.3	-	1.5	1.2	1 U	0.93 U	***89.4***	2.5	***78.8***	-	1.1 U	1.6 U	-	1.5 U	-	1.2 U	29.6	-	-	0.91 U

Sample Location:	SCOs (b) RR	SCOs (b) PoG	Test Pit 22	Test Pit 23	BLDG 13A DS-1-WW	BLDG 13A DS-2-EW
Sample Depth (ft-bgs):			-	-	3.75	3.75
PID (ppm):			-	-	-	-
Sample Date:			07/02/19	07/02/19	07/18/19	07/18/19
CVOCs (mg/kg)						
1,1,1-Trichloroethane	100	0.68	-	-	-	-
1,1-Dichloroethene	100	0.33	-	-	-	-
1,2-Dichloroethane	3.1	0.02	-	-	-	-
cis-1,2-Dichloroethene	100	0.25	-	-	-	-
Tetrachloroethene	19	1.3	-	-	-	-
trans-1,2-Dichloroethene	100	0.19	-	-	-	-
Trichloroethene	21	0.47	-	-	-	-
Vinyl chloride	0.9	0.02	-	-	-	-
Metals (mg/kg)						
Barium	400	820	***1,040***	176	***12,100***	***1,330***
Chromium	180	19	-	-	-	-
Cadmium	4.3	7.5	-	-	-	-
Cyanide (mg/kg)	27	40	2.4	1.5 U	-	-

a/ ft-bgs = feet below ground surface; PID = photoionization detector; ppm = parts per million; SCOs = soil cleanup objectives; RR = restricted residential; Comm = commercial; Ind = industrial; PoG = protection of groundwater; mg/kg = milligrams per kilogram; CVOCs = chlorinated volatile organic compounds; D = duplicate of previous sample; "-" = not analyzed, not applicable or not available.
b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
c/ Data Qualifiers:
U = not detected

Boxed value exceeds RR
Bold italic value exceeds PoG

Table 18

Water Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Location:		OD2 SEEP 1	OD2 SEEP 2	OD2 SEEP 3	BD-8 Pipe	BD-8 Pool	MW-38T
Date:		08/21/19	08/21/19	08/21/19	05/22/19	05/22/19	05/22/19
	AWQS (b)						
CVOCs (µg/l)							
Acetone	50	50 U(c)	10 U	10 U	-	-	-
Benzene	1	5 U	1 U	1 U	-	-	-
Bromochloromethane	5	5 U	1 U	1 U	-	-	-
Bromodichloromethane	50	5 U	1 U	1 U	-	-	-
Bromoform	50	5 U	1 U	1 U	-	-	-
Bromomethane	5	5 U	1.5	1 U	-	-	-
2-Butanone (MEK)	50	50 U	10 U	10 U	-	-	-
Carbon disulfLocatione	60	5 U	1 U	1 U	-	-	-
Carbon tetrachloride	5	5 U	1 U	1 U	-	-	-
Chlorobenzene	5	5 U	1 U	1 U	-	-	-
Chloroethane	5	5 U	1 U	1 U	-	-	-
Chloroform	7	5 U	1 U	1 U	-	-	-
Chloromethane	5	5 U	1 U	1 U	-	-	-
Dibromochloromethane	50	5 U	1 U	1 U	-	-	-
1,2-Dichlorobenzene	3	5 U	1 U	1 U	-	-	-
1,3-Dichlorobenzene	3	5 U	1 U	1 U	-	-	-
1,4-Dichlorobenzene	3	5 U	1.0 U	1.0 U	-	-	-
1,1-Dichloroethane	5	5 U	1 U	1 U	-	-	-
1,2-Dichloroethane	0.6	5 U	1 U	1 U	1 U	1 U	-
1,1-Dichloroethene	5	5 U	1 U	1 U	1 U	1 U	-
cis-1,2-Dichloroethene	5	5 U	170	159	1 U	1 U	-
trans-1,2-Dichloroethene	5	5 U	2.1	2	1 U	1 U	-
1,2-Dichloroethene (Total)	-	10 U	172	161	-	-	-
1,2-Dichloropropane	1	5 U	1 U	1 U	-	-	-
cis-1,3-Dichloropropene	-	5 U	1 U	1 U	-	-	-
trans-1,3-Dichloropropene	-	5 U	1 U	1 U	-	-	-
1,3-Dichloropropene	0.4	5 U	1 U	1 U	-	-	-
Ethylbenzene	5	5 U	1 U	1 U	-	-	-
2-Hexanone	50	50 U	10 U	10 U	-	-	-
Isopropylbenzene (Cumene)	5	5 U	1 U	1 U	-	-	-
4-Methyl-2-pentanone (MIBK)	-	50 U	10 U	10 U	-	-	-
Methyl-tert-butyl ether	-	5 U	1 U	1 U	-	-	-
Methylene chloride	5	5 U	1 U	1 U	-	-	-
Naphthalene	10	10 U	2 U	2 U	-	-	-
Styrene	5	5 U	1 U	1 U	-	-	-
1,1,2,2-Tetrachloroethane	5	5 U	1 U	1 U	-	-	-
Tetrachloroethene	5	5 U	1 U	1 U	1 U	1 U	-
Toluene	5	5 U	1 U	1 U	-	-	-
1,2,4-Trichlorobenzene	5	5 U	1 U	1 U	-	-	-
1,1,1-Trichloroethane	5	5 U	1 U	1 U	1 U	1 U	-
1,1,2-Trichloroethane	1	5 U	1 U	1 U	-	-	-
Trichloroethene	5	5 U	8.1	7.1	1 U	1 U	-
1,2,4-Trimethylbenzene	5	5 U	1 U	1 U	-	-	-
1,3,5-Trimethylbenzene	5	5 U	1 U	1 U	-	-	-
Vinyl chloride	2	20.7	33.8	32.4	1 U	1 U	-
m&p-Xylene	5	10 U	2 U	2 U	-	-	-
o-Xylene	5	5 U	1 U	1 U	-	-	-
Xylene (Total)	5	15 U	3 U	3 U	-	-	-
BTEX (Total)	-	30 U	6 U	6 U	-	-	-
Metals (µg/l)							
Arsenic	25	-	-	-	-	-	5 U
Barium	1,000	230	77.3	106	91.5	95.1	-
Cyanide (µg/l)	200	28	10	10 U	71	71	18

a/ AWQS = ambient water quality standard; CVOCs = chlorinated volatile organic compounds; µg/l = micrograms per liter; "-" = not analyzed, not applicable or not available.

b/ New York State Department of Environmental Conservation. 1998. Division of Water Technical and Operation Guidance Series (1.1.1) AWQS and Guidance Values and Groundwater Elluent Limitations. Source of Drinking Water (Class GA). June.

c/ Data Qualifiers: U = not detected

Boxed value exceeds AWQS

Table 19

Product Results
Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, New York (a)

	Sample Location:	OD2 SEEP 1P	
	Sample Date:	08/21/19	
	SCOs (b)		
	RR	PoG	
CVOCs (mg/kg)			
Acetone	100	0.05	0.942 U
Benzene	4.8	0.06	0.471 U
Bromochloromethane	-	-	0.471 U
Bromodichloromethane	-	-	0.471 U
Bromoform	-	-	0.471 U
Bromomethane	-	-	0.471 U
2-Butanone (MEK)	100	0.12	0.942 U
Carbon disulfLocatione	-	-	0.471 U
Carbon tetrachloride	2.4	0.76	0.471 U
Chlorobenzene	100	1.1	0.471 U
Chloroethane	-	-	0.471 U
Chloroform	49	0.37	0.471 U
Chloromethane	-	-	0.471 U
Dibromochloromethane	-	-	0.471 U
1,2-Dichlorobenzene	100	1.1	0.471 U
1,3-Dichlorobenzene	49	2.4	0.471 U
1,4-Dichlorobenzene	13	1.8	0.5 U
1,1-Dichloroethane	26	0.27	0.471 U
1,2-Dichloroethane	3.1	0.02	0.471 U
1,1-Dichloroethene	100	0.33	0.471 U
cis-1,2-Dichloroethene	100	0.25	0.471 U
trans-1,2-Dichloroethene	100	0.19	0.471 U
1,2-Dichloroethene (Total)	-	-	0.942 U
1,2-Dichloropropane	-	-	0.471 U
cis-1,3-Dichloropropene	-	-	0.471 U
trans-1,3-Dichloropropene	-	-	0.471 U
Ethylbenzene	41	1	0.471 U
2-Hexanone	-	-	0.942 U
Isopropylbenzene (Cumene)	-	-	0.471 U
4-Methyl-2-pentanone (MIBK)	-	-	0.942 U
Methyl-tert-butyl ether	100	0.93	0.471 U
Methylene chloride	-	-	0.471 U
Naphthalene	100	12	0.471 U
Styrene	-	-	0.471 U
1,1,2,2-Tetrachloroethane	-	-	0.471 U
Tetrachloroethene	19	1.3	0.471 U
Toluene	100	0.7	0.471 U
1,2,4-Trichlorobenzene	-	-	0.471 U
1,1,1-Trichloroethane	100	0.68	0.471 U
1,1,2-Trichloroethane	-	-	0.471 U
Trichloroethene	21	0.47	0.471 U
1,2,4-Trimethylbenzene	52	3.6	0.471 U
1,3,5-Trimethylbenzene	52	8.4	0.471 U
Vinyl chloride	0.9	0.02	0.471 U
m&p-Xylene	-	-	0.942 U
o-Xylene	-	-	0.471 U
Xylene (Total)	100	1.6	1.41 U
BTEX (Total)	-	-	2.83 U
Percent Moisture	-	-	33.6

a/ SCOs = soil cleanup objectives; RR = restricted residential; PoG = protection of groundwater; mg/kg = milligrams per kilogram; CVOCs = chlorinated volatile organic compounds; "-" = not analyzed, not applicable or not available.
b/ 6 NYCRR Part 375 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives. Effective December 14, 2006.
c/ Data Qualifiers:
U = not detected

Shaded value exceeds RR
Bold italic value exceeds PoG

APPENDIX

A CONTAINED-IN DETERMINATION LETTERS AND NYSDEC APPROVALS

VIA ELECTRONIC MAIL

November 12, 2018

Henry Wilkie
Assistant Engineer, Division of Materials Management
New York State Department of Environmental Conservation

Subject: **Contained-In Determination Request**
Former Emerson Power Transmission Facility, Ithaca, New York

Dear Mr. Wilkie:

On behalf of Emersub 15, LLC, WSP USA Inc. is requesting a determination that soil excavated from a portion of the former Emerson Power Transmission (EPT) property in Ithaca, New York, do not require management as a hazardous waste under the "contained-in" criteria as outlined in the New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM) 3028.

The former EPT site is an inactive hazardous waste site (Site No. 755010) that is subject to remedial activities pursuant to a 1987 Administrative Order on Consent issued by the NYSDEC. Soil excavation work is being conducted at the site as detailed in an Interim Remedial Measures (IRM) Work Plan, which was approved by the NYSDEC and New York State Department of Health on August 22, 2018. As part of the IRM activities, soil containing chlorinated volatile organic compounds (VOCs) will be removed from an area of the site, designated Area of Concern (AOC) 1, where there were two former solvent degreasers (Figure 1). It is our understanding that soils in AOC 1 are required to be managed as a hazardous waste because they "contain" an F001-listed hazardous waste and must be managed as a listed hazardous waste unless or until the soils meet "contained-in" criteria provided in TAGM 3028.

Please find below a brief description of the former EPT facility and AOC 1 and a summary of the soil investigation results and IRM activities for AOC 1. Some of the soils in AOC 1 meet the TAGM 3028 criteria and, therefore, we believe these soils should be managed as nonhazardous waste pending sampling results that confirm that the soils do not exhibit a hazardous waste characteristic.

DESCRIPTION OF SITE AND AOC 1

The former EPT facility is located at 620 South Aurora Street in Ithaca, New York. The site is approximately 60 acres and there are two separate buildings (Buildings 21 and 24) and a series of connected buildings extending along the northeast to southwest portion of the property (Figure 1). The original buildings at the former EPT site were built in 1906 by Morse Industrial Corporation, which manufactured steel roller chain for the automobile industry. From approximately 1928 to 1983, Borg-Warner Corporation owned the property and manufactured automotive components and power transmission equipment using similar processes, but not necessarily the same materials, as those conducted by EPT. In 1983, Morse Industrial Corporation was purchased from Borg-Warner Corporation by Emerson and became known as "Emerson Power Transmission." EPT manufactured industrial roller chain, bearings, and clutching for the power transmission industry until ceasing operations in 2009.

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According to historic site documents, solvent degreasing and solvent recovery operations were conducted in Department 507, which was located on the main floor of Building 3 and Building 4. Two degreaser units, which were located near a depressed floor area of Building 4, were placed in the 507 Department (Building 4) in the 1960s to clean metal parts and scrap metal. Solvents used in the degreasing operations included mainly trichloroethene (TCE) and Safe-Tee Solvent 128, which contained tetrachloroethene (PCE) and methylene chloride. TCE usage occurred from the 1960s to approximately 1978. Safe-Tee Solvent was used from approximately 1973 to 1983. The degreasers were removed, and TCE and Safe-Tee Solvent were not used by Emerson after they purchased the facility in 1983. AOC 1 comprises the area around the former Department 507 degreaser area (Figure 1).

AOC 1 INVESTIGATION RESULTS

Numerous environmental investigations have been conducted in and around AOC 1 to evaluate conditions in soil and groundwater. The AOC 1 sampling locations are shown on Figure 2, and the soil results are provided in Tables 1 and 2. The results indicated the presence of chlorinated VOCs, primarily TCE, PCE, and their breakdown products, at concentrations above the Title 6 New York Codes, Rules, and Regulations Part 375 Soil Cleanup Objectives (SCOs) for Protection of Groundwater (PoG) in shallow soil samples collected less than 3 feet below ground surface (bgs) in exterior locations (SB-101112-2 and SB-AOC1-1 through SB-AOC1-8, SB-AOC-16, SB-AOC-20, and SB-AOC1-26; Tables 1 and 2).

Chlorinated VOC were also detected at concentrations above the PoG SCOs in subsurface soil samples collected between 11 and 22.4 feet bgs at five exterior locations (SB-15a, SB-101112-1, SB-AOC1-3, SB-AOC1-4, and SB-AOC1-8) and one interior location, SB-1d (Table 2). These deeper samples were collected below the potentiometric surface; consequently, the results are more indicative of VOC-affected groundwater quality than subsurface soil conditions.

AOC 1 IRM ACTIVITIES

Based on soil data from AOC 1 investigations conducted in 2007, 2008, 2012, and 2015, soils containing chlorinated VOCs above PoG SCOs were delineated for purposes of characterizing the nature of the VOCs and evaluating and selecting an appropriate remedial alternative to implement as an IRM (Figure 2). The NYSDEC-approved IRM for shallow soil (i.e., approximately 3 feet bgs) within AOC 1 is excavation with offsite disposal, confirmation sampling, and backfilling with clean soil. The IRM for deep soil is construction of a low-permeability cap to minimize infiltration to the deeper soil zone.

In accordance with the NYSDEC-approved IRM Workplan, VOC-impacted soils in AOC 1 were excavated from October 15 through 30, 2018. The IRM Workplan indicated that AOC 1 consisted of two affected areas west of Building 3 (Figure 2). The primary area was initially estimated at approximately 56 feet by 22 feet; the second area was estimated to be approximately 15 feet north of the first and is approximately 5 feet by 7 feet (Figure 2). Confirmation samples ("CS" designation on Figure 2 and Table 3) were collected along the excavation perimeter to ensure that the SCOs are achieved followed by additional excavation, if necessary. The results of the confirmation samples are provided in Table 3. Based the on IRM confirmation samples, the original two separate affected areas in AOC 1 were connected and extended to one large area to meet PoG SCOs (Figure 2) along the excavation perimeter. Documentation samples ("DS" designation on Figure 2 and Table 3) were also collected from the excavation bottom at a depth of 3 feet to document the level of affected soils remaining that will be protected by the low-permeability cap (Table 3).

Excavated soil from AOC 1 was segregated into two stock piles: approximately 90 cubic yards (145 tons) of soil that met NYSDEC "contained-in" soil action levels provided in TAGM 3028; and approximately 80 cubic yards (130 tons) of soil not meeting TAGM 3028 action levels, which were considered a listed hazardous waste (Figure 2). The soil sampling results for which we are requesting a "contained-in" determination are provided in Table 4, and the laboratory reports for these samples are provided separately. Based on a comparison of the soil sampling results in Table 4 to the "contained-in" action levels, none of the sampling results contain VOCs above TAGM 3028 action levels, and therefore, we believe these soils should be managed as nonhazardous waste pending sampling results that confirm that the soils do not exhibit a hazardous waste characteristic.

Waste profile soil samples were collected on November 6, 2018, from the "contained-In" determination soil pile to determine if these soils are characteristically hazardous and the results are pending. Provided the NYSDEC approves our "contained-in" determination

request and the waste profile soil samples are not characteristically hazardous, these nonhazardous soils will be transported to Seneca Meadows Landfill in Waterloo, New York for disposal.

WSP appreciates you reviewing our request. If you have any questions regarding the contents of this letter, or require additional information, please contact us.

Sincerely,

David Rykaczewski, PE
Senior Technical Manager

DAR:rlo
k:\emerson\ept-ithaca\aoc-1 contained in determination/draft aoc 1 contained in determination (11_12_18)

Encl.

cc: Stephen L. Clarke, Emerson
Karen Cahill, New York State Environnemental Conservation

FIGURES

NOTES:

1. GOOGLE EARTH AERIAL PHOTOGRAPH, IMAGERY DATE 5/5/2013.

2. AERIAL PHOTOGRAPHS USED FOR THIS ILLUSTRATION CONTAIN INHERENT DISTORTIONS RESULTING FROM THE PHOTOGRAPHIC PROCESS THAT MAY RESULT IN SLIGHT MISALIGNMENTS WITH THE SURVEYED SITE FEATURES.

LEGEND

34 BUILDING NUMBER

PROPERTY BOUNDARY

100 0 100 200

SCALE, FEET

THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

D

REVISIONS

REV	DESCRIPTION
1	Revised: Chkd: Appr.:
2	Revised: Chkd: Appr.:
3	Revised: Chkd: Appr.:

SEAL

DATE

DRAWN BY RJB 11/21/2013

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APPROVED AVR 11/21/2013

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SITE LAYOUT

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

WSP USA Inc.
13530 DULLES TECHNOLOGY DR. SUITE 300
HERNDON, VA 20171
TEL: +1 703.709.6500

FIGURE 1

Drawing Number
314P1545.001–D02

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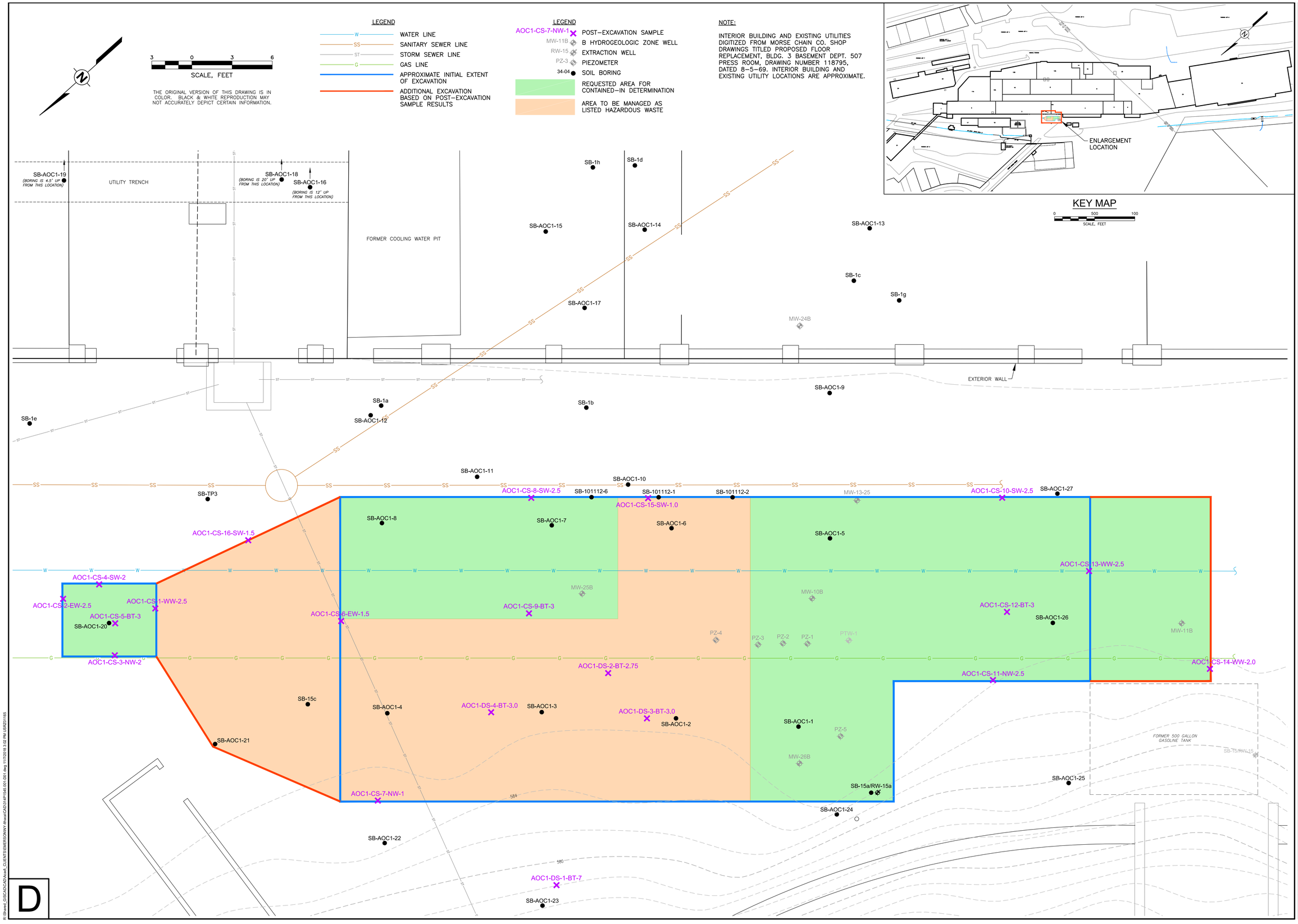

REV	DESCRIPTION		
1	Revised:	Chkd:	Appr.:
2	Revised:	Chkd:	Appr.:
3	Revised:	Chkd:	Appr.:

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AOC 1 SOIL SAMPLE LOCATIONS

INTERIM REMEDIAL MEASURES
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON – ST. LOUIS, MISSOURI

WSP USA Inc.
13530 DULLES TECHNOLOGY DR., SUITE 300
HERNDON, VA 20171
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FIGURE 2

Drawing Number
314P1545.001–D01

D

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TABLES

Table 1

AOC 1 Soil Sampling Results from 2007, 2008, and 2012 Investigations
Former EPT Facility
Ithaca, New York (a)

	Sample Location:	SB-1a	SB-1b	SB-1c	SB-1d	SB-1e	SB-1e	SB-15a	SB-15a	SB-15c	SB-1g	SB-1g	SB-1h	SB-1h	SB-TP3	SB-101112-1	SB-101112-2	SB-101112-2	SB-101112-6
	Sample Date:	08/21/07	08/21/07	08/21/07	08/21/07	06/03/08	06/03/08	06/03/08	06/03/08	06/09/08	06/26/12	06/26/12	06/26/12	06/26/12	06/25/12	10/11/12	10/11/12	10/11/12	10/11/12
	Sample Depth (feet bgs):	8-10	12-13.3	8-9	11-12	8-10	10-12	10-12	22-22.4	12-14	2-5	12-13.5	5-6	12-14	4-6	13.75-15.5	2.25-3	14-15.5	14.1-15.7
	Protection of Groundwater SCO (b)																		
VOCs (ug/kg)																			
1,1,2,2-Tetrachloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8	10.8	8	ND
1,1-Dichloroethene	330	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.7	ND	ND	ND
1,2-Dichloroethane	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	***5,870***	7.2	ND	ND
1,4-Dichlorobenzene	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.6	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41.5	38.6	38.7	48.2
Acetone	50	ND	ND	11 J	ND	***120***	***77***	***52***	***79***	41	ND	***79.8***	ND	12.5	ND	29.4	***74***	24	21.3
Carbon disulfide	-	2 J	1 J	2 J	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.6	8.2	ND	ND
cis-1,2-Dichloroethene	250	ND	2 J	ND	130 J	ND	ND	ND	42	ND	ND	ND	ND	239	ND	ND	ND	ND	ND
Isopropylbenzene	-	ND	ND	ND	ND	ND	ND	ND	38	ND	ND	ND	ND	ND	ND	14.9	13.3	15.9	18.7
Methyl acetate	-	ND	ND	ND	210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.7	ND	ND
Methylene chloride	50	27	23	11	***170***	ND	ND	ND	ND	6.6	ND	5.5	ND	ND	ND	ND	ND	9.8	ND
Tetrachloroethene	1,300	1 J	2 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	700	ND	ND	ND	ND	ND	7.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.3	8.3	16.4	10.6
Trichloroethene	470	12	28	6	73 J	ND	ND	8.2	13	ND	30.7	ND	ND	5.1	3.9	ND	ND	ND	ND
Trichlorofluoromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	20	ND	ND	ND	***290***	ND	ND	ND	***21***	ND	ND	ND	ND	ND	ND	***9,400***	***206***	ND	8.2
Xylene (mixed)	1,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	202	161	182	199
Metals (mg/kg)																			
Aluminum	-	13,500	11,600	10,400	9,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	16	***24***	10	7.9	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	820	108	109	131	55.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	47	0.64	0.47	0.48	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	-	1,390	1,560	3,840	1,170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	19	***90.1***	***26.9***	17.9	14.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	-	12.9	13.4	13.3	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1,720	30.4	21.4	20.2	15.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	-	63,800	29,400	32,800	20,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	450	50	28.4	18.1	11.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	-	4,540	4,030	3,910	3,040	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	2,000	352	525	458	1,150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.73	0.206	0.021	0.153	0.029	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	130	56.3	47.2	30.1	20.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	-	1,040	690	769	709	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	-	21.2	16.1	15.4	17.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,480	69	58.2	50.3	46.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrocarbons (mg/kg)																			
Other-1	-	NA	NA	NA	NA	NA	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH (Motor Oil Range)	-	NA	NA	NA	NA	NA	2,800	NA	13,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Shaded and italicized concentration exceeds Protection of Groundwater SCO.

a/ Abbreviations: bgs = below ground surface; mg/kg = milligrams per kilogram; SCO = Soil Cleanup Objective; VOC= volatile organic compound; ug/kg = micrograms per kilogram; ND = not detected; NA = not analyzed for this compound; "-" = no SCO available for this compound.

Data Qualifiers: J = estimated concentration below reporting limit but above method detection limit

b/ Evaluation criteria are the Soil Cleanup Objectives as listed in NYSDEC Part 375-6.8(b); criteria for trivalent chromium presented.

Table 2

AOC 1 Soil Sampling Results from 2015 Investigation
Former EPT Facility
Ithaca, New York (a)

	Sample Location:	SB-AOC1-1	SB-AOC1-1	SB-AOC1-1	SB-AOC1-2	SB-AOC1-2	SB-AOC1-3	SB-AOC1-3	SB-AOC1-3 (c)	WSP-101 (c)	SB-AOC1-4	SB-AOC1-4
	Sample Date:	06/01/15	06/03/15	06/03/15	06/01/15	06/03/15	06/01/15	06/02/15	06/02/15	06/02/15	06/01/15	6/2/2015
	Sample Depth (feet bgs):	1-1.17	14-16	16-18	1-1.17	10-12	1-1.17	12-14	14-16	14-16	0.7-0.87	12-14
	Protection of Groundwater SCO (b)											
VOCs (ug/kg)												
1,1,1-Trichloroethane	680	ND	ND	ND	***2,400***	ND	ND	ND	ND	ND	96 J	ND
1,2,4-Trimethylbenzene	3,600	ND	3 J	3 J	ND	ND	ND	200	500	29	39 J	ND
1,3,5-Trimethylbenzene	8,400	ND	ND	1.6 J	ND	ND	ND	36 J	180	11	ND	ND
4-Isopropyltoluene	-	ND	ND	ND	ND	ND	ND	ND	ND	0.7 J	ND	54 J
Acetone	50	ND	16 J	47	ND	ND	ND	ND	ND	65	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	370	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-Dichloroethene	250	61 J	11	32	***12,000***	0.96 J	***2,000 J***	***3,300***	ND	ND	67 J	ND
Ethylbenzene	1,000	ND	ND	ND	ND	ND	ND	ND	ND	0.56 J	ND	ND
Isopropylbenzene	-	ND	ND	ND	ND	ND	ND	190	23 J	2 J	ND	ND
Methyl acetate	-	ND	ND	ND	ND	ND	ND	ND	180	ND	ND	ND
Methyl ethyl ketone	120	ND	ND	ND	ND	ND	ND	ND	ND	21 J	ND	ND
Methyl tert-butyl ether	930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	-	110 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
Methylene chloride	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	130	140
n-Butylbenzene	12,000	ND	ND	ND	ND	ND	ND	300	38 J	ND	ND	89 J
n-Propylbenzene	3,900	ND	0.72 J	ND	ND	ND	ND	130	62 J	2.4 J	ND	37 J
sec-Butylbenzene	11,000	ND	0.6 J	1.3 J	ND	ND	ND	930	ND	1.4 J	ND	39 J
tert-Butylbenzene	5,900	ND	ND	ND	ND	ND	ND	99 J	ND	ND	ND	ND
Tetrachloroethene	1,300	190	2.5 J	1.2 J	***6,700***	4.3 J	***24,000***	100 J	ND	ND	***12,000***	ND
Toluene	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-Dichloroethene	190	ND	2.1 J	2.4 J	***450 J***	ND	ND	***230***	ND	ND	ND	ND
Trichloroethene	470	***5,700***	9.9	ND	***250,000***	28	***150,000***	***630***	ND	ND	***63,000***	ND
Vinyl chloride	20	ND	ND	3.7 J	ND	ND	ND	***1,100***	ND	ND	ND	ND
Xylene (mixed)	1,600	ND	ND	ND	ND	ND	ND	ND	ND	3.4 J	ND	ND

Shaded and italicized concentration exceeds SCO.

Table 2

AOC 1 Soil Sampling Results from 2015 Investigation
Former EPT Facility
Ithaca, New York (a)

Sample Location:		SB-AOC1-4 (c)	WSP-100 (c)	SB-AOC1-4	SB-AOC1-5	SB-AOC1-5	SB-AOC1-6	SB-AOC1-6	SB-AOC1-7	SB-AOC1-7	SB-AOC1-8	SB-AOC1-8	SB-AOC1-8	SB-AOC1-9
Sample Date:		6/2/2015	6/2/2015	6/2/2015	06/01/15	06/03/15	06/01/15	06/03/15	06/01/15	06/03/15	06/03/15	06/04/15	06/04/15	06/03/15
Sample Depth (feet bgs):		14-16	14-16	16-18	1-1.17	14-16	0-1.17	14-16	0-1.17	12-14	0.75-0.92	10-12	18-20	0.75-0.92
	Protection of Groundwater SCO (b)													
VOCs (ug/kg)														
1,1,1-Trichloroethane	680	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3,600	47 J	77 J	ND	ND	***4,900***	ND	ND	ND	ND	ND	ND	ND	1.8 J
1,3,5-Trimethylbenzene	8,400	ND	45 J	ND	ND	1,800	ND	ND	ND	ND	ND	ND	ND	0.41 J
4-Isopropyltoluene	-	94 J	120	ND	ND	440	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13 J	ND
Benzene	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,100	ND	ND	ND	ND	ND	17 J	ND	ND	ND	ND	ND	ND	ND
Chloroform	370	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-Dichloroethene	250	ND	ND	ND	ND	ND	780	ND	ND	0.81 J	ND	ND	170	ND
Ethylbenzene	1,000	ND	ND	ND	ND	34 J	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	-	34 J	43 J	ND	ND	150	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate	-	120	180	ND	ND	ND	ND	ND	ND	ND	86 J	ND	ND	ND
Methyl ethyl ketone	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	-	240	340	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	360	540	ND	89 J	39 J	91 J	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	12,000	ND	290	ND	ND	870	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	ND	65 J	ND	ND	530	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	ND	100 J	ND	ND	560	ND	ND	ND	ND	ND	ND	1.7 J	ND
tert-Butylbenzene	5,900	ND	ND	ND	ND	47 J	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1,300	ND	ND	95 J	140 J	ND	***2,200***	ND	***1,800***	4.6	***9,900***	ND	ND	8.1
Toluene	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-Dichloroethene	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8 J	ND
Trichloroethene	470	ND	ND	***660***	***770***	ND	***86,000***	ND	***42,000***	26	***37,000***	7	2.9 J	20
Vinyl chloride	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	***22***	ND
Xylene (mixed)	1,600	ND	ND	ND	ND	160 J	ND	ND	ND	ND	ND	ND	ND	ND

Shaded and italicized concentration exceeds SCO.

Table 2

AOC 1 Soil Sampling Results from 2015 Investigation
Former EPT Facility
Ithaca, New York (a)

	Sample Location:	SB-AOC1-9	SB-AOC1-10	SB-AOC1-10	SB-AOC1-11	SB-AOC1-11	SB-AOC1-12	SB-AOC1-12	SB-AOC1-13	SB-AOC1-13	SB-AOC1-13	SB-AOC1-13	SB-AOC1-14
	Sample Date:	06/04/15	06/04/15	06/04/15	06/04/15	06/04/15	06/03/15	06/04/15	06/01/15	06/01/15	06/01/15	06/01/15	06/02/15
	Sample Depth (feet bgs):	8-10	0.75-0.92	10-12	0.75-0.92	10-12	0.75-0.92	10-12	0-0.17	0-2	8-10	8-10	0-0.17
	Protection of Groundwater SCO (b)												
VOCs (ug/kg)													
1,1,1-Trichloroethane	680	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9 J
1,3,5-Trimethylbenzene	8,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9 J
4-Isopropyltoluene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	5 J	ND	ND	ND	5.8 J	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND	ND	ND	0.79 J	0.29 J	0.29 J	ND
Bromodichloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	370	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-Dichloroethene	250	ND	4.6 J	ND	ND	ND	ND	0.81 J	ND	0.7 J	ND	ND	ND
Ethylbenzene	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	50	ND	ND	ND	ND	ND	ND	ND	ND	2.3 J	ND	ND	ND
Naphthalene	12,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	12,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1,300	1.7 J	2.7 J	1.8 J	9.4	ND	2.5 J	1.1 J	ND	4.9	ND	ND	ND
Toluene	700	ND	ND	0.54 J	ND	ND	ND	ND	ND	1.4 J	0.48 J	0.48 J	ND
trans-Dichloroethene	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	470	6.3	100	6.6	180	2.1 J	11	17	1.8 J	21	0.99 J	0.99 J	ND
Vinyl chloride	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (mixed)	1,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Shaded and italicized concentration exceeds SCO.

Table 2

AOC 1 Soil Sampling Results from 2015 Investigation
Former EPT Facility
Ithaca, New York (a)

	Sample Location:	SB-AOC1-14	SB-AOC1-14	SB-AOC1-15	SB-AOC1-15	SB-AOC1-15	SB-AOC1-15	SB-AOC1-15	SB-AOC1-16	SB-AOC1-16	SB-AOC1-16	SB-AOC1-17 (c)	WSP-102 (c)
	Sample Date:	06/02/15	06/02/15	06/02/15	06/02/15	06/02/15	06/02/15	06/02/15	06/02/15	06/02/15	06/02/15	06/04/15	06/04/15
	Sample Depth (feet bgs):	8-10	8-10	0-0.17	6-8	8-10	6-8	8-10	0-0.17	0-2	6-8	0-0.17	0-0.17
	Protection of Groundwater SCO (b)												
VOCs (ug/kg)													
1,1,1-Trichloroethane	680	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.47 J	ND	ND
1,2,4-Trimethylbenzene	3,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	5.7 J	ND	ND	ND	ND	ND	ND	9.8 J	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.58 J	ND	ND
Bromodichloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	370	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-Dichloroethene	250	1.3 J	1.3 J	ND	ND	ND	ND	ND	ND	ND	2.5 J	ND	ND
Ethylbenzene	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7 J	ND	ND
Methyl tert-butyl ether	930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	12,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1,300	4.2 J	4.2 J	ND	5 J	ND	5 J	ND	ND	210	1.4 J	ND	ND
Toluene	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	ND	ND
trans-Dichloroethene	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	470	15 J	15 J	ND	18 J	1.6 J	18 J	1.6 J	ND	***4,300***	3.3 J	ND	ND
Vinyl chloride	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (mixed)	1,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Shaded and italicized concentration exceeds SCO.

Table 2

AOC 1 Soil Sampling Results from 2015 Investigation
Former EPT Facility
Ithaca, New York (a)

	Sample Location:	SB-AOC1-17	SB-AOC1-18	SB-AOC1-18	SB-AOC1-19	SB-AOC1-19	SB-AOC1-20	SB-AOC1-20	SB-AOC1-21	SB-AOC1-21	SB-AOC1-22	SB-AOC1-22	SB-AOC1-23 (c)
	Sample Date:	06/04/15	08/05/15	08/06/15	08/05/15	08/06/15	08/06/15	08/06/15	08/06/15	08/06/15	08/06/15	08/06/15	08/05/15
	Sample Depth (feet bgs):	10-12	0.5-0.67	0.67-2	0.5-0.67	0.67-2	2-2.17	7.5	2-2.17	15	2-2.17	7.5	0-0.17
	Protection of Groundwater SCO (b)												
VOCs (ug/kg)													
1,1,1-Trichloroethane	680	ND	ND	ND	ND	0.93 J	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3,600	11 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8,400	4.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	-	0.94 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	8.3 J	19 J	ND	ND	ND	ND	ND	23 J	37	39	ND	ND
Benzene	60	ND	0.38 J	ND	ND	ND	ND	ND	ND	ND	0.76 J	ND	ND
Bromodichloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	ND	ND	17	13	ND	ND
Chlorobenzene	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	370	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-Dichloroethene	250	ND	ND	ND	ND	ND	53 J	ND	ND	0.83 J	ND	ND	ND
Ethylbenzene	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.86 J	ND	ND
Isopropylbenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.1 J	ND	ND
Methyl tert-butyl ether	930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	-	ND	ND	ND	ND	ND	110	ND	ND	ND	ND	ND	ND
Methylene chloride	50	ND	ND	ND	ND	ND	99 J	ND	ND	ND	ND	ND	7
Naphthalene	12,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	12,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	0.95 J	ND	ND	ND	ND	ND	ND	ND	ND	0.63 J	ND	ND
sec-Butylbenzene	11,000	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1,300	29	ND	ND	ND	ND	160	ND	ND	ND	1.6 J	ND	ND
Toluene	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	ND	ND
trans-Dichloroethene	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	470	36	29	12	5.1	5	***1,400***	2.8 J	ND	ND	6.1	1.8 J	ND
Vinyl chloride	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (mixed)	1,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Shaded and italicized concentration exceeds SCO.

Table 2

AOC 1 Soil Sampling Results from 2015 Investigation
Former EPT Facility
Ithaca, New York (a)

	Sample Location:	**SB-AOC1-105 (c)**	**SB-AOC1-23**	**SB-AOC1-24**	**SB-AOC1-25**	**SB-AOC1-25**	**SB-AOC1-26**	**SB-AOC1-26**	**SB-AOC1-27**	**SB-AOC1-27**
	Sample Date:	**08/05/15**	**08/05/15**	**08/05/15**	**08/06/15**	**08/06/15**	**08/06/15**	**08/06/15**	**08/06/15**	**08/06/15**
	Sample Depth (feet bgs):	**0-0.17**	**4-5**	**1-1.17**	**1-1.17**	**10.5**	**0.67-0.84**	**10.5**	**0.67-0.84**	**7.5**
	Protection of Groundwater SCO (b)									
VOCs (ug/kg)										
1,1,1-Trichloroethane	680	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3,600	ND	ND	ND	ND	ND	110 J	ND	ND	ND
1,3,5-Trimethylbenzene	8,400	ND	ND	ND	ND	ND	42 J	ND	ND	ND
4-Isopropyltoluene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	7.6 J	ND	ND	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	1.8 J	0.35 J	24 J	ND	ND	ND
Bromodichloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	370	ND	ND	ND	ND	ND	ND	ND	ND	0.39 J
cis-Dichloroethene	250	ND	3.3 J	ND	1.6 J	ND	230	ND	ND	2.5 J
Ethylbenzene	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	120	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	930	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	-	ND	ND	ND	ND	ND	630	ND	ND	ND
Methylene chloride	50	6.5 J	ND	ND	ND	ND	81 J	ND	ND	ND
Naphthalene	12,000	ND	ND	ND	ND	ND	780	ND	ND	ND
n-Butylbenzene	12,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5,900	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1,300	ND	7.1 J	2.3 J	2.2 J	1.9 J	***5,100***	2.7 J	2.7 J	10
Toluene	700	ND	ND	ND	6.4 J	1.7 J	120	ND	ND	ND
trans-Dichloroethene	190	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	470	ND	15	13 J	55 J	9.6	***18,000***	14	7.9	65
Vinyl chloride	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (mixed)	1,600	ND	ND	ND	ND	ND	300	ND	ND	ND

Shaded and italicized concentration exceeds SCO.

Table 2

AOC 1 Soil Sampling Results from 2015 Investigation
Former EPT Facility
Ithaca, New York (a)

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a/ Abbreviations: bgs = below ground surface; SCO = Soil Cleanup Objective; VOC= volatile organic compound; ug/kg = micrograms per kilogram; ND = not detected; "-" = no SCO available for this compound.
Data Qualifiers: J = estimated concentration below reporting limit but above method detection limit
b/ Evaluation criteria are the Soil Cleanup Objectives as listed in NYSDEC Part 375-6.8(b); criteria for trivalent chromium presented.
c/ Sample and duplicate.

Table 3

AOC 1 IRM Soil Sampling Results
Former EPT Facility
Ithaca, New York (a)

	Sample Location:	**AOC1-CS-5-BT-3**	**AOC1-CS-4-SW-2**	**AOC1-CS-3-NW-2**	**AOC1-CS-2-EW-2.5**	**AOC1-CS-1-WW-2.5**	**AOC1-CS-9-BT-3**	**AOC1-CS-8-SW-2.5**	**AOC1-CS-12-BT-3**	**AOC1-CS-10-SW-2.5**	**AOC1-CS-11-NW-2.5**	**AOC1-CS-13-WW-2.5**	**AOC1-CS-14-WW-2.0**
	Sample Date:	10/17/18	10/17/18	10/17/18	10/17/18	10/17/18	10/17/18	10/17/18	10/18/18	10/18/18	10/18/18	10/18/18	10/23/18
	Sample Depth (feet bgs):	3	2	2	2.5	2.5	3	2.5	3	2.5	2.5	2.5	2
	Protection of Groundwater SCO (b)												
VOCs (ug/kg)													
1,1,1-Trichloroethane	680	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	132 J	0.94 J
1,1-Dichloroethene	330	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	250	ND	ND	3.8	ND	8.6	ND	1.3	1.7	1.9	ND	163	1.7
Tetrachloroethene	1,300	ND	2.4 J	7.4	ND	27.5	0.76 J	5.2	13.5	9.1	3.6	***6,670***	72.1
trans-1,2-Dichloroethene	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	470	4.4	22.1	108	4.3	241	19.2	87.4	132	99.1	32.7	***24,800***	188
Vinyl chloride	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Shaded and italicized concentration exceeds SCO.

Table 3

AOC 1 IRM Soil Sampling Results
Former EPT Facility
Ithaca, New York (a)

	Sample Location:	**AOC1-CS-7-NW-1**	**AOC1-CS-6-EW-1.5**	**AOC1-DS-2-BT-2.75**	**AOC1-DS-1-BT-7**	**AOC1-CS-15-SW-1.0**	**AOC1-DS-3-BT-3.0**	**AOC1-DS-4-BT-3.0**	**AOC1-CS-16-SW-1.5 (c)**	**AOC1-CS-1600-SW-1.5**
	Sample Date:	10/17/18	10/17/18	10/18/18	10/17/18	10/26/18	10/26/18	10/26/18	10/29/18	10/29/18
	Sample Depth (feet bgs):	1	1.5	2.75	7	1	3	3	1.5	1.5
	Protection of Groundwater SCO (b)									
VOCs (ug/kg)										
1,1,1-Trichloroethane	680	ND	1.7 J	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	330	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	250	ND	2.9	2.7	ND	1.3	1.5	1.1 J	ND	ND
Tetrachloroethene	1,300	5.2	22.8	1.6 J	1.3 J	1.5 J	0.76 J	6.8	ND	0.52 J
trans-1,2-Dichloroethene	190	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	470	37.2	***82,600***	***58,200***	3.1	30.4	97.5	***20,500***	4.4	5.1
Vinyl chloride	20	ND	ND	ND	ND	ND	ND	ND	ND	ND

Shaded and italicized concentration exceeds SCO.

Table 3

AOC 1 IRM Soil Sampling Results
Former EPT Facility
Ithaca, New York (a)

a/ Abbreviations: bgs = below ground surface; SCO = Soil Cleanup Objective; VOC= volatile organic compound; ug/kg = micrograms per kilogram; ND = not detected.
Data Qualifiers: J = estimated concentration below reporting limit but above method detection limit
b/ Evaluation criteria are the Soil Cleanup Objectives as listed in NYSDEC Part 375-6.8(b); criteria for trivalent chromium presented.
c/ Sample and duplicate.

Table 4

AOC 1 Soil Sampling Results for "Contained-In" Determination
Former EPT Facility
Ithaca, New York (a)

	Sample Location:	SB-AOC1-1	SB-AOC1-5	SB-AOC1-7	SB-AOC1-8	SB-AOC1-26	AOC1-CS-5-BT-3	AOC1-CS-4-SW-2	AOC1-CS-3-NW-2	AOC1-CS-2-EW-2.5	AOC1-CS-1-WW-2.5
	Sample Date:	06/01/15	06/01/15	06/01/15	06/03/15	08/06/15	10/17/18	10/17/18	10/17/18	10/17/18	10/17/18
	Sample Depth (feet bgs):	1-1.17	1-1.17	0-1.17	0.75-0.92	0.67-0.84	3	2	2	2.5	2.5
	"Contained-In" Soil Action Level (b)										
VOCs (ug/kg)											
1,1,1-Trichloroethane	7,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	-	ND	ND	ND	ND	110 J	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	-	ND	ND	ND	ND	42 J	NA	NA	NA	NA	NA
Benzene	22,000	ND	ND	ND	ND	24 J	NA	NA	NA	NA	NA
1,1-Dichloroethene	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	7,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-Dichloroethene	780,000	61 J	ND	ND	ND	230	ND	ND	3.8	ND	8.6
Methyl acetate	-	ND	ND	ND	86 J	ND	NA	NA	NA	NA	NA
Methylcyclohexane	-	110 J	ND	ND	ND	630	NA	NA	NA	NA	NA
Methylene chloride	85,000	ND	ND	ND	ND	81 J	NA	NA	NA	NA	NA
Naphthalene	310,000	ND	89 J	ND	ND	780	NA	NA	NA	NA	NA
Tetrachloroethene	12,000	190	140 J	1,800	9,900	5,100	ND	2.4 J	7.4	ND	27.5
Toluene	16,000,000	ND	ND	ND	ND	120	NA	NA	NA	NA	NA
trans-Dichloroethene	1,600,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	58,000	5,700	770	42,000	37,000	18,000	4.4	22.1	108	4.3	241
Vinyl chloride	340	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (mixed)	160,000,000	ND	ND	ND	ND	300	NA	NA	NA	NA	NA

Table 4

AOC 1 Soil Sampling Results for "Contained-In" Determination
Former EPT Facility
Ithaca, New York (a)

	Sample Location:	AOC1-CS-9-BT-3	AOC1-CS-8-SW-2.5	AOC1-CS-12-BT-3	AOC1-CS-10-SW-2.5	AOC1-CS-11-NW-2.5	AOC1-CS-13-WW-2.5	AOC1-CS-14-WW-2.0
	Sample Date:	10/17/18	10/17/18	10/18/18	10/18/18	10/18/18	10/18/18	10/23/18
	Sample Depth (feet bgs):	3	2.5	3	2.5	2.5	2.5	2
	"Contained-In" Soil Action Level (b)							
VOCs (ug/kg)								
1,1,1-Trichloroethane	7,000,000	ND	ND	ND	ND	ND	132 J	0.94 J
1,2,4-Trimethylbenzene	-	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	-	NA	NA	NA	NA	NA	NA	NA
Benzene	22,000	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	1,100	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	7,000	ND	ND	ND	ND	ND	ND	ND
cis-Dichloroethene	780,000	ND	1.3	1.7	1.9	ND	163	1.7
Methyl acetate	-	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	-	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	85,000	NA	NA	NA	NA	NA	NA	NA
Naphthalene	310,000	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	12,000	0.76 J	5.2	13.5	9.1	3.6	6,670	72.1
Toluene	16,000,000	NA	NA	NA	NA	NA	NA	NA
trans-Dichloroethene	1,600,000	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	58,000	19.2	87.4	132	99.1	32.7	24,800	188
Vinyl chloride	340	ND	ND	ND	ND	ND	ND	ND
Xylene (mixed)	160,000,000	NA	NA	NA	NA	NA	NA	NA

Table 4

AOC 1 Soil Sampling Results for "Contained-In" Determination
Former EPT Facility
Ithaca, New York (a)

---

a/ Abbreviations: bgs = below ground surface; SCO = Soil Cleanup Objective; VOC= volatile organic compound; ug/kg = micrograms per kilogram; ND = not detected; NA = not analyzed for this compound; "-" = no criteria listed.

Data Qualifiers: J = estimated concentration below reporting limit but above method detection limit

b/ Evaluation criteria are "Contained-In" Criteria for Soil from New York State Department of Environmental Conservation Technical Administrative Guidance Memorandum 3028, dated November 30, 1992, and revised July 29, 1997.

ENCLOSURE – LABORATORY ANALYTICAL REPORTS FOR CONTAINED-IN DETERMINATION SAMPLES

(UNDER SEPARATE COVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Hazardous Waste and Radiation Management
625 Broadway, 9th Floor, Albany, New York 12233-7256
P: (518) 402-8651 | F: (518) 402-9024
www.dec.ny.gov

December 7, 2018

Ms. Amy Romano
Senior Technical Manager
WSP USA
7000 E. Genesee Street
Building D, 2nd Floor
Fayetteville, NY 13066

Re: Contained-In Determination Request
Former Emerson Power Transmission Facility, Ithaca, New York
NYSDEC Site No. 755010

Dear Ms. Romano:

The New York State Department of Environmental Conservation has reviewed the analytical soil data (Lab Sample ID: 480-81418-4, 480-81418-9, 480-81418-11, 480-81596-13, 480-85206-13, 480-85206-14, 480-85206-17, 480-85206-18, 480-85206-19, 480-85206-20, JC76195-2, JC76195-2R, JC76195-3, JC76195-3R, JC76195-4, JC76195-4R, JC76195-5, JC76195-5R, JC76106-1R, JC76106-2R, JC76106-5R, JC76106-6R, JC76106-7R, JC76106-8R, JC76106-9R, JC76509-1, 181107001-006, 181129007-001 and 181129007-002) submitted with your November 12, 2018 request for a “contained-in” determination for contaminated soil which was encountered during a remedial investigation of the above project.

Concentrations detected for individual VOCs were all significantly less than their current “contained-in” soil action levels, and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level.

Concentrations for tetrachloroethene and trichloroethene were below the soil “contained-in” action level and the Land Disposal Restriction concentration. Excavated soils from AOC1 segregated into a stockpile, approximately 90 cubic yards, do not have to be managed as hazardous waste and can be transported off-site to Seneca Meadows Landfill in Waterloo, New York, for disposal as a solid waste.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9611 or email me at henry.wilkie@dec.ny.gov.

Sincerely,

Henry Wilkie
Assistant Environmental Engineer
RCRA Permit Section

ec: K. Cahill, DER Region 7

Rykaczewski, Dave A.

From: Romano, Amy M.
Sent: Thursday, April 11, 2019 6:47 PM
To: Wilkie, Henry (DEC)
Cc: Rykaczewski, Dave A.
Subject: RE: Contained-In Determination Request - Former EPT (Ithaca, New York)
Attachments: Letter-Correspondence.HW.755010.2018-12-07.Former Emerson Power Transmis....pdf

Dear Mr. Wilkie:

In December 2018, you provided a "Contained-In" Determination Approval letter for certain soils generated at the Former Emerson Power Transmission Facility in Ithaca, New York. In the letter, which is attached, you stated that the soils "can be transported off-site to Seneca Meadows Landfill in Waterloo, New York, for disposal as a solid waste."

Our disposal contractor has indicated that the soil could be delivered to Chemung County Landfill or Ontario County Landfill. Therefore, we are requesting your approval for the off-site transportation of this approximately 90-cubic-yard of excavated soils from AOC 1 to Chemung County Landfill in Elmira, New York, or to Ontario County Landfill in Stanley, New York.

If you consider these landfills acceptable, please provide us a confirmation email or letter indicating that you approve of the disposal of these soils at the Chemung County Landfill or Ontario County Landfill.

If you require additional information, please let us know.

Thank you,
Amy

Amy Romano
Senior Technical Manager

Phone: +1 315 655 3900
Mobile: +1 315 374 1175
Email: Amy.Romano@wsp.com

WSP USA
7000 E. Genesee Street
Building D, 2nd Floor
Fayetteville, NY 13066

From: Wilkie, Henry (DEC) [mailto:henry.wilkie@dec.ny.gov]
Sent: Friday, December 07, 2018 10:17 AM
To: Romano, Amy M. <Amy.Romano@wsp.com>
Cc: Cahill, Karen A (DEC) <karen.cahill@dec.ny.gov>; Clarke, Steve [CORP/US] <Steve.Clarke@emerson.com>; Rykaczewski, Dave A. <Dave.Rykaczewski@wsp.com>
Subject: RE: Contained-In Determination Request - Former EPT (Ithaca, New York)

Good Morning,

Attached is the "Contained-In" Determination Approval letter. This email copies you on correspondence from the New York State Department of Environmental Conservation. Electronic attachments may be attached. This document has also been entered into the DECDOC system. A hard copy version will not follow in the mail.

If you have any additional questions, please feel free to contact me.

Henry Wilkie

Henry Wilkie
Assistant Engineer, Division of Materials Management

New York State Department of Environmental Conservation
625 Broadway, Albany, New York 12233-7252
P: (518) 402-9611 | F: (518) 402-9627 | henry.wilkie@dec.ny.gov

www.dec.ny.gov |

From: Romano, Amy M. [mailto:Amy.Romano@wsp.com]
Sent: Monday, November 12, 2018 5:01 PM
To: Wilkie, Henry (DEC) <henry.wilkie@dec.ny.gov>
Cc: Cahill, Karen A (DEC) <karen.cahill@dec.ny.gov>; Clarke, Steve [CORP/US] <Steve.Clarke@emerson.com>; Rykaczewski, Dave A. <Dave.Rykaczewski@wsp.com>
Subject: Contained-In Determination Request - Former EPT (Ithaca, New York)

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Dear Mr. Wilkie:

On behalf of Emersub 15, LLC, please find enclosed a contained-in determination request for soil excavated from a portion of the former Emerson Power Transmission (EPT) property in Ithaca, New York. The former EPT site is an inactive hazardous waste site (Site No. 755010) that is subject to remedial activities pursuant to a 1987 Administrative Order on Consent issued by the NYSDEC. Soil excavation work is being conducted at the site as detailed in an Interim Remedial Measures (IRM) Work Plan, which was approved by the NYSDEC and NYSDOH on August 22, 2018.

The laboratory data associated with this contained-in determination request will be provided separately to you using an FTP file exchange. You will receive an email that will tell you how to upload the laboratory data from the FTP server.

If you have any questions about the enclosed information or have difficulty retrieving the data, please let us know.

Thank you,
Amy

Amy Romano
Senior Technical Manager

Phone: +1 315 655 3900
Mobile: +1 315 374 1175
Email: Amy.Romano@wsp.com

WSP USA
7000 E. Genesee Street
Building D, 2nd Floor
Fayetteville, NY 13066

NOTICE: This communication and any attachments ("this message") may contain information which is privileged, confidential, proprietary or otherwise subject to restricted disclosure under applicable law. This message is for the sole use of the intended recipient(s). Any unauthorized use, disclosure, viewing, copying, alteration, dissemination or distribution of, or reliance on, this message is strictly prohibited. If you have received this message in error, or you are not an authorized or intended recipient, please notify the sender immediately by replying to this message, delete this message and all copies from your e-mail system and destroy any printed copies.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Hazardous Waste and Radiation Management
625 Broadway, 9th Floor, Albany, New York 12233-7256
P: (518) 402-8651 | F: (518) 402-9024
www.dec.ny.gov

April 12, 2019

Ms. Amy Romano
Senior Technical Manager
WSP USA
7000 E. Genesee Street
Building D, 2nd Floor
Fayetteville, NY 13066

Re: **REVISED** - Contained-In Determination Request
Former Emerson Power Transmission Facility, Ithaca, New York
NYSDEC Site No. 755010

Dear Ms. Romano:

The New York State Department of Environmental Conservation has reviewed the analytical soil data (Lab Sample ID: 480-81418-4, 480-81418-9, 480-81418-11, 480-81596-13, 480-85206-13, 480-85206-14, 480-85206-17, 480-85206-18, 480-85206-19, 480-85206-20, JC76195-2, JC76195-2R, JC76195-3, JC76195-3R, JC76195-4, JC76195-4R, JC76195-5, JC76195-5R, JC76106-1R, JC76106-2R, JC76106-5R, JC76106-6R, JC76106-7R, JC76106-8R, JC76106-9R, JC76509-1, 181107001-006, 181129007-001 and 181129007-002) submitted with your November 12, 2018 request for a “contained-in” determination for contaminated soil which was encountered during a remedial investigation of the above project.

Concentrations detected for individual VOCs were all significantly less than their current “contained-in” soil action levels, and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level.

Concentrations for tetrachloroethene and trichloroethene were below the soil “contained-in” action level and the Land Disposal Restriction concentration. Excavated soils from AOC1 segregated into a stockpile, approximately 90 cubic yards, do not have to be managed as hazardous waste and can be transported off-site to Chemung County Landfill in Elmira, New York, or to Ontario County Landfill in Stanley, New York, for disposal as a solid waste.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9611 or email me at henry.wilkie@dec.ny.gov.

Sincerely,

Henry Wilkie
Assistant Environmental Engineer
RCRA Permit Section

ec: K. Cahill, DER Region 7

APPENDIX

B ANALYTICAL DATA REPORTS

APPENDIX

C GEOSYNTHETIC CLAY LINER INSTALLATION GUIDE

BENTOFIX® **Thermal Lock Geosynthetic Clay Liner**

• Technical Bulletin •

BENTOFIX SPECIFICATION GUIDELINES

THE FOLLOWING SPECIFICATION GUIDELINE REFLECTS INDUSTRY ACCEPTED INSTALLATION PROCEDURES AND THE MOST CURRENT BENTOFIX QUALITY CONTROL TEST PROTOCOL. IT IS INTENDED TO BE USED AS THE GENERAL FORMAT, NOT AS A DIRECT SUBSTITUE FOR A PROJECT SPECIFIC GEOSYNTHETIC CLAY LINER (GCL) SPECIFICATION.

Information regarding the physical properties of Bentofix Thermal Lock products, including the information contained in this specification sheet, is, to the best of our knowledge, information and belief, representative of Bentofix Thermal Lock products. All information, data, suggestions, opinions and recommendations are offered without guarantee or warranty of any kind. The final determination as to the appropriateness or suitability of any Bentofix product in any particular application rests with the user and is the user's sole responsibility. All rights are reserved to alter, change or modify the Bentofix products and product specifications at any time without notice. Please check with your sales or technical representative to assure that specifications are current.
Bentofix is a registered trademark of Naue Fasertechnik, GmbH. (2010)

1.0 **GENERAL Scope** - This specification details the technical requirements for the supply and installation of a needlepunched Geosynthetic Clay Liner (GCL). The material(s) furnished and installation performed shall be in strict accordance with these requirements and the contract drawings.

1.1. **Definitions** - For the purposes of this specification the following definitions shall apply:

1.1.1. Geosynthetic Clay Liner (GCL) - A factory manufactured hydraulic barrier consisting of granular sodium bentonite clay, sandwiched between, supported and encapsulated by two geotextiles, held together by needlepunching.

1.1.2. Geotextile - A semi-permeable woven or nonwoven fabric or scrim-reinforced nonwoven used to contain the bentonite used in a GCL.

1.1.3. Sodium Bentonite - The high swelling clay component of GCLs consisting primarily of the mineral Montmorillonite.

1.1.4. Needlepunching - A GCL manufacturing process whereby boards of barbed needles incorporate the staple fibers from a nonwoven geotextile, through a sodium bentonite clay layer, into the matrix of a second geotextile layer.

1.1.5. Thermal Locking - A needlepunching enhancement process utilizing heat to bond the needlepunched fibers and more permanently lock them into the second geotextile to increase the internal shear strength characteristics and lower the bulk void ratio of the bentonite.

1.1.6. Minimum Average Roll Value (MARV) - The minimum average value of the material in a particular lot calculated as the mean of the tested values minus two standard deviations providing a 95% confidence level.

1.2. **References** - The following test methods shall be incorporated into this specification in their entirety, subject to the indicated test modifications:

- ASTM D 4632, "Standard Test Method for Grab Breaking Load and Elongation of Geotextiles". (Note: D6496 & D6768 are now used instead of D4632).
- ASTM D 4643, “Determination of Water (Moisture) Content of Soil by the Microwave Oven Method”.
- ASTM D 5084, “Standard Test Method for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter”.
- ASTM D 5261, “Standard Test Method for Measuring Mass Per Unit Area of Geotextiles”.
- ASTM D 5321, “Determining the Coefficient of Soil and Geosynthetic or Geosynthetic and Geosynthetic Friction by the Direct Shear Method”.
- ASTM D 5887, "Measurement of Index Flux Through Saturated Geosynthetic Clay Liner Specimens Using a Flexible Wall Permeameter".
- ASTM D 5888, “Standard Guide for Storage and Handling of Geosynthetic Clay Liners”.

Information regarding the physical properties of Bentofix Thermal Lock products, including the information contained in this specification sheet, is, to the best of our knowledge, information and belief, representative of Bentofix Thermal Lock products. All information, data, suggestions, opinions and recommendations are offered without guarantee or warranty of any kind. The final determination as to the appropriateness or suitability of any Bentofix product in any particular application rests with the user and is the user's sole responsibility. All rights are reserved to alter, change or modify the Bentofix products and product specifications at any time without notice. Please check with your sales or technical representative to assure that specifications are current.
Bentofix is a registered trademark of Naue Fasertechnik, GmbH. (2010)

- ASTM D 5889, “Standard Practice for Quality Control of Geosynthetic Clay Liners”.
- ASTM D 5890, “Standard Test Method for Swell Index of Clay Mineral Component of Geosynthetic Clay Liners”.
- ASTM D 5891, “Standard Test Method for Fluid Loss of Clay Component of Geosynthetic Clay Liners”.
- ASTM D 5993, “Standard Test Method for Measuring Bentonite Mass Per Unit of Geosynthetic Clay Liners
- ASTM D 6243, “Standard Test Method for Determining the Internal and Interface Shear Resistance of Geosynthetic Clay Liners by Direct Shear Method”.
- ASTM D 6496, “Standard Test Method for Determining Average Bonding Peel Strength Between the Top and Bottom Layers of Needle-Punched Geosynthetic Clay Liners”.
- ASTM D 6768, “Standard Test Method for Tensile Strength of Needle-Punched Geosynthetic Clay Liners”.

2.0 **QUALIFICATIONS** - The GCL Manufacturer, Installer and Construction Quality Assurance (CQA) inspector shall all be skilled in accordance with the following experience requirements. Any exceptions must be approved by the project engineer prior to the project bid.

2.1. **GCL Manufacturer** - The GCL manufacturer selected for use on this project shall have successfully produced at least 10,000,000 square meters of needlepunched GCL product.

2.2. **GCL Installer** - The installer shall provide to the engineer sufficient evidence of installation experience and competence with the specified geosynthetic materials.

The GCL installer shall demonstrate a minimum of 5,000 square meters of GCL installation experience **or** shall provide sufficient evidence of installation experience and competence with other Geosynthetic products (geotextiles/geogrids,geoliners) **or** shall demonstrate an acceptable level of training and supervision will be utilized in order to ensure the quality of the installation **or** shall receive initial assistance from the GCL manufacturer and/or from the GCL distributor in order to ensure a quality installation.

2.3. **Construction Quality Assurance (CQA) Inspector** - (if required) – The engineering consultant shall have a CQA inspector on this project. The CQA inspector shall be an employee of the engineering consultant on this project.

2.4. **Submittals** - Three copies of the project submittals shall be forwarded to the project engineer as designated below:

2.4.1. Unit Prices Bid - The square footage and associated pricing shall be based on “measured in place” quantities or quantity delivered to the project site as determined by the project engineer.

Information regarding the physical properties of Bentofix Thermal Lock products, including the information contained in this specification sheet, is, to the best of our knowledge, information and belief, representative of Bentofix Thermal Lock products. All information, data, suggestions, opinions and recommendations are offered without guarantee or warranty of any kind. The final determination as to the appropriateness or suitability of any Bentofix product in any particular application rests with the user and is the user's sole responsibility. All rights are reserved to alter, change or modify the Bentofix products and product specifications at any time without notice. Please check with your sales or technical representative to assure that specifications are current.
Bentofix is a registered trademark of Naue Fasertechnik, GmbH. (2010)

2.4.1.1. Measured In Place - Measured in place quantities shall be determined from the project drawings, including any allowances for waste, overlap, and anchoring. Final quantities will be payable based on the as-built drawings.

2.4.1.2. Delivered to Site - Delivered pricing quantities shall be determined from the manufacturer's shipping documents and reflect the total square footage delivered to the project site.

2.4.2. Information With Bid - The following shall be submitted with the bid:

2.4.2.1. Statement of experience from the proposed GCL supplier.

2.4.2.2. Statement of experience from the proposed GCL Installer.

2.4.3. Prior to Installation - The following information shall be supplied to the project engineer for review within 10 business days of the Contract Award to ensure that the materials and parties selected for use on the project meet the requirements of this specification:

2.4.3.1. Samples of GCL proposed for use on the project.

2.4.3.2. Reference list supplied by GCL Manufacturer indicating the appropriate experience level as required by the specification.

2.4.3.3. Reference list supplied by the GCL Installer indicating the appropriate experience level as required by the specification.

2.4.4. Prior to Deployment - The following information shall be submitted by the Lining Contractor to the Project Engineer prior to the deployment of any GCL material to ensure that the materials and subgrade preparation meet the requirements of this specification:

2.4.4.1. GCL Manufacturer's Quality Control Certifications.

2.4.4.2. Certifications of subgrade acceptance for each area covered by GCL, signed by the earthwork Contractor and CQA inspector.

3.0 **GCL MATERIALS** - The GCL product supplied to the project shall be in full accordance with the requirements of this section.

The GCL shall be manufactured by mechanically bonding the geotextiles using a needlepunching process to enhance frictional and internal shear strength characteristics.

In order to maintain these characteristics, no glues, adhesives or other non-mechanical bonding processes shall be used in lieu of the needlepunch process. Their use to enhance the physical properties of the GCL is permitted.

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3.1. **Description** - Acceptable GCLs for this project include the Bentofix Thermal Lock, or any other needlepunched GCLs which meet the requirements of this specification and the GCL Technical Data sheet listed for this project.

3.2. **GCL Manufacturing** - The GCL supplied in accordance with this project shall be manufactured by needlepunching as described in Section 1.2 – Definitions and the GCL Technical Data Sheet of this Project.

3.2.1. The needlepunched GCL shall be thermally locked. The thermal lock process must heat set the nonwoven fibers where they protrude from the second geotextile (woven or nonwoven or scrim-nonwoven depending upon product) to more permanently secure the reinforcement in place. Other means may be used to lock the fibers in place if the process demonstrates similar performance to the thermal lock process.

3.2.2. To demonstrate the uniformity of the manufacturing process, no delamination of the geotextile components from the bentonite core shall occur when the GCL is exposed to 80 degree tap water for one hour.

3.3. **Alternative Materials** - Prior to considering an alternative GCL material, the Contractor shall submit certified test results and statements of quality from the proposed GCL supplier to the engineer, indicating without exception that the proposed GCL meets the requirements of this specification. Submittals shall be delivered to the engineer a minimum of five business days in advance of the bid.

No other manufacturing techniques shall be approved unless it can be suitably demonstrated that the GCL exhibits uniform shear strength characteristics across the entire width of the panel. Isolated sewn or stitched rows do not constitute uniform reinforcement for the purposes of this specification.

3.4. **GCL Physical Properties** - The GCL material shall be in accordance with the test methods, test frequencies and material physical properties as listed in the Appendix (GCL - Technical Data Sheet).

3.4.1. Standard Conditions - For projects where a standard nonwoven - bentonite - woven GCL will provide sufficient interface shear properties, the GCL supplied for this project shall be in accordance with the test methods, test frequencies and material physical properties as listed in the Appendix (GCL – Technical Data Sheet).

3.4.2. Steep Slopes - For slope applications where the interface shear strengths require a nonwoven - bentonite - "scrim-nonwoven" GCL, the GCL supplied for this project shall be in accordance with the test methods, test frequencies and material physical properties as listed in the Appendix (GCL – Technical Data Sheet).

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3.5. **Dimensions** - The minimum acceptable dimensions for the GCL panels shall be 15 feet wide and 150 feet long. Short rolls (rolls less than 150 feet long) may be supplied, but at a rate not to exceed 5% of the total square footage produced for this project.

3.6. **Overlap Markings** - A minimum overlap guide-line and a construction match-line delineating the overlap zone shall be imprinted with non-toxic ink on both edges of the GCL panel to ensure the accuracy of the seam. These lines shall be used during CQA to ensure the minimum overlap is achieved. The minimum overlap guideline shall indicate where the edge of the panel must be placed in order to achieve a twelve inch of panel overlap.

3.7. **Manufacturing Quality Control** - The GCL shall be tested for compliance with this specification by the test methods and frequencies indicated on the material specification (GCL Technical Data Sheet) as appropriate. GCL materials may be tested pre-approved at the manufacturing location.

3.7.1. Manufacturer Quality Control Certification - Quality Control certificates shall be issued by the GCL manufacturer to the project engineer, or other designated party for each delivery of material. The certifications shall be signed by the quality control manager of the GCL manufacturer or other responsible party and shall include the following information:

- Shipment Packing List - A list indicating the rolls shipped on a particular truckload.
- Bill of Lading - The shipping documents for the truck used for the shipment.
- Letter of Certification - The letter indicating the material is in conformance with the physical properties specified.
- Physical Properties Sheet - The material specification for the GCL supplied in accordance with this specification.

3.7.2. Manufacturer Quality Control Submittal - Quality Control submittals shall be issued by the GCL manufacturer to the project engineer, or other designated party for each lot of material if necessary. The submittals shall include the following information:

3.7.2.1. Bentonite Manufacturer Certification - Bentonite manufacturer quality documentation for the particular lot of clay used in the production of the rolls delivered.

3.7.2.2. Geotextile Manufacturer Certification - Geotextile manufacturer quality control documentation for the particular lots of geotextiles used in the production of the rolls delivered.

3.7.2.3. GCL Manufacturer Tracking List - Cross referencing list delineating the corresponding geotextile and bentonite lots for the materials used in the production of the rolls delivered.

3.7.2.4. Manufacturing Quality Control Data - The manufacturing quality control test data indicating the actual test values obtained when tested at the appropriate frequencies for the properties specified in the GCL Technical Data Sheet.

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3.8. **Packaging** - All GCL rolls shall be packaged in moisture resistant plastic sleeves. The cardboard cores shall be sufficiently strong to resist collapse during transit and handling. All rolls shall have two straps to facilitate offloading on site.

3.9. **Roll Identification and Labeling** - Prior to shipment, the manufacturer shall label each roll, both on the GCL roll and on the surface of the plastic protective sleeve. Labels shall be resistant to fading and moisture degradation to ensure legibility at the time of the installation. At a minimum the roll labels shall identify the following:

- Length and width of roll
- Total weight of roll
- Type of GCL material
- Production Lot number and Individual Roll number

3.10. **Accessory Bentonite** - Any accessory bentonite used for sealing seams, penetrations, or repairs, shall be the same granular bentonite as used in the production of the GCL itself.

4.0 **EXECUTION** - The following installation procedures are as specific as possible while recognizing that the specific requirements of the project may necessitate minor modifications. Significant deviations from these procedures shall be pre-approved by the project engineer or other designated party.

4.1. **Shipping and Handling Equipment** - The party responsible for unloading the GCL shall contact the manufacturer prior to shipment to determine the correct unloading methods and equipment if different from the pre-approved and specified methods.

Bentofix Geosynthetic Clay Liner (GCL) must be supported during handling to ensure worker safety and prevent damage to the liner. Under no circumstances should the rolls be dragged, lifted from one end, lifted with only the forks of a lift truck or pushed to the ground from the delivery vehicle.

The CQA inspector shall verify that proper handling equipment exists which does not pose any danger to installation personnel or risk of damage or deformation to the liner material itself. Suitable handling equipment is described below:

4.1.1. Spreader Bar Assembly - A spreader bar assembly shall include both a core pipe or bar and a spreader bar beam. The core pipe shall be used to uniformly support the roll when inserted through the GCL core while the spreader bar beam will prevent chains or straps from chafing the roll edges.

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4.1.2. Stinger - A stinger is a rigid pipe or rod with one end directly connected to a forklift or other handling equipment. If a stinger is used, it should be fully inserted to it's full length into the roll to prevent excessive bending of the roll when lifted.

4.1.3. Roller Cradles - Roller cradles consist of two large diameter rollers spaced approximately 3 inches apart which both support the GCL roll and allow it to freely unroll. The use of roller cradles shall be permitted if the rollers support the entire width of the GCL roll.

4.1.4. Straps - Straps may be used to support the ends of spreader .

4.2. GCL Inspection Upon Delivery - Each roll shall be visually inspected when unloaded to determine if any packaging or material has been damaged during transit. Repairs to damaged GCL shall be performed in accordance with Section 4.6.5 of this specification.

4.2.1. Rolls exhibiting damage shall be marked and set aside for closer examination during deployment.

4.2.2. Minor rips or tears in the plastic packaging shall be repaired with moisture resistant tape prior to being placed in storage to prevent moisture damage.

4.2.3. GCL rolls delivered to the project site shall be only those indicated on GCL manufacturing quality control certificates.

4.3. Storage / Stockpiling / Staging - Storage of the GCL rolls shall be the responsibility of the installer or other designated party. All GCL rolls shall be stock-piled and maintained dry in a flat location area away from high-traffic areas but sufficiently close to the active work area to minimize handling.

4.3.1. GCL should be stored no higher than three to four rolls high or limited to the height at which the handling apparatus may be safely handled by installation personnel. Stacks or tiers of rolls should be situated in a manner that prevents sliding or rolling by "choking" the bottom layer of rolls.

4.3.2. Rolls shall not be stacked on uneven or discontinuous surfaces in order to prevent bending, deformation, damage to the GCL or cause difficulty inserting the core pipe.

4.3.3. An additional tarpaulin or plastic sheet shall be used over the stacked rolls to provide extra protection for GCL material stored outdoors.

4.3.4. Bagged bentonite material shall be stored and tarped next to GCL rolls unless other more protective measures are available. Bags shall be stored on pallets or other suitably dry surface which will prevent undue prehydration.

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4.4. **Manufacturing Quality Assurance Documentation** - Third party GCL MQA sampling and testing for compliance with this specification shall be coordinated by the project engineer to support the manufacturer's MQC data.

4.5. **Subgrade Preparation** - The surfaces upon which the GCL shall be suitable for the placement of GCL material, subject to the applicable section of this specification (Earthen - 4.5.1 or Geosynthetic - 4.5.2).

4.5.1. Earthen Subgrade - The surface upon which the GCL material will be installed shall be inspected by the CQA inspector and certified by the earthwork contractor to be in accordance with the requirements of this specification.

4.5.1.1. The subgrade soil shall be well graded containing less than 20% gravel two inches or larger and no sharp stones larger than 1/2 the thickness of the subgrade/foundation layer.

4.5.1.2. In applications where the GCL is the sole barrier and will be subjected to a hydraulic head that exceeds the confining stress, subgrade surfaces consisting of gravel or granular soils may not be appropriate due to their large void content. Where subgrade surfaces consist of gravel or granular soils, a scrim-reinforced GCL shall be used, where the bottom fabric of the GCL shall contain a scrim-nonwoven fabric. For these applications, the top six inches of the subgrade soil should possess a particle size distribution where at least 80 percent of the soil is finer than 0.2 mm (#60 sieve).

4.5.1.3. Site specific compaction requirements should be followed in accordance with the project drawings and specifications. At a minimum, the level of compaction should be such that no excessive rutting is caused by installation equipment or other construction vehicles which traffic the area of deployment (typically 85% of standard proctor or greater).

4.5.1.4. The surfaces to be lined shall be smooth and free of any debris, vegetation, roots, sticks, sharp rocks, or other deleterious materials larger than two inches as well as free of any voids, large cracks.

4.5.1.5. Directly prior to deployment of the GCL, the subgrade shall be final-graded to fill remaining voids or desiccation cracks, and proof-rolled to eliminate sharp irregularities or abrupt elevation changes. The surfaces to be lined shall be maintained in this smooth condition.

4.5.2. Geosynthetic Subgrade - Prior to GCL deployment the geosynthetic surface as well as other underlying geosynthetics upon which the GCL material will be installed shall be inspected and approved by the project engineer in accordance with the requirements of the project specification documents.

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4.5.3. Anchor Trench - An anchor trench shall be excavated by the earthwork contractor or liner installer to the lines and grades shown on the project drawings at the top of slopes greater than 7h:1v.

4.5.3.1. The anchor trench shall be constructed free of sharp edges or corners and maintained in a dry condition. No loose soil shall be permitted beneath the GCL within the trench.

4.5.3.2. The anchor trench shall be inspected as well as approved by the project engineer prior to GCL placement, back-filling and compaction of the anchor key material.

4.5.4. Subgrade Inspection - The earthen or geosynthetic subgrade shall be continuously inspected, approved and certified by the project engineer prior to GCL placement.

Subsequent to the project engineer's approval, it shall be the installer's responsibility to indicate to the Engineer any change in the subgrade condition that could cause it to be out of compliance with any of the requirements of this section or the project specification.

4.6. GCL Placement - GCL Material shall be placed in general accordance with the procedures specified below, or modified to account for site specific conditions.

4.6.1. GCL Orientation - In the absence of specific guidelines, GCL panels should be placed with the nonwoven side up on slopes to maximize the shear strength characteristics.

In base or flat areas, the GCL does not require any particular orientation, however, in composite liner applications, intimate contact may be facilitated by placing the woven face of the GCL against the overlying FML.

4.6.2. GCL Panel Position - Where possible, all slope panels should be installed parallel to the maximum slope while panels installed in flat areas require no particular orientation.

4.6.3. Panel Deployment - GCL materials shall be installed in general accordance with the procedures set forth in this section, subject to site specific conditions which would necessitate modifications.

Reinforced GCL shall be used on both slopes as well as the flat areas to ensure the GCL withstands the rigors of the installation and subsequent low load hydration.

4.6.3.1. Deployment should proceed from the highest elevation to the lowest to facilitate drainage in the event of precipitation. For deployment of lowest to highest elevation upon approval by the project engineer.

4.6.3.2. The GCL may be deployed on slopes by pulling the material from a suspended roll, or securing a roll end into an anchor trench and unrolling each panel as the handling equipment slowly moves backwards.

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4.6.3.3. Deployment on flat areas shall be conducted in the same manner as that for the slopes, however, care should be taken to minimize "dragging" the GCL. Slip-sheet may be used to facilitate positioning of the liner while ensuring the GCL is not damaged from underlying sources.

4.6.3.4. Overlaps shall be a minimum of 12 inches and be free of wrinkles, folds or more importantly "fish-mouths".

4.6.3.5. The contractor shall only install as much GCL that can be covered at the end of the day. No GCL shall be left exposed overnight unless approved the project engineer.

4.6.4. Anchoring- All GCL material installed on slopes greater than 7:1 shall be anchored to prevent potential GCL panel movement.

4.6.4.1. Standard Anchor - The GCL shall be placed into and across the base of the excavated trench, stopping at the back wall of the excavation.

4.6.4.2. "Run-Out" Anchor - On gentle slopes or locations where it is difficult to create an anchor trench, the GCL may alternatively be anchored by a material run-out past the crest of the slope. The length of the run-out shall be pre-approved by the project engineer prior to the use of this method.

4.6.5. Seaming - A 9-inch lap line and a 12-inch match line shall be imprinted on both edges of the upper geotextile component of the GCL to assist in installation overlap quality control. Lines shall be printed as continuous dashes in easily observable non-toxic ink.

4.6.5.1. Overlap seams shall be a minimum of twelve inches on panel edges and twenty four inches on panel ends.

4.6.5.2. Loose granular bentonite should be placed between panels at a rate of ¼ pound per lineal foot of seam if the GCL is the primary hydraulic seal.

4.6.5.3. The addition of bentonite to the seam area is optional when the GCL will be acting as a leak isolator for an overlying FML in composite liner applications.

4.6.6. Detailing - Detail work, defined as the sealing of the liner to pipe penetrations, foundation walls, drainage structures, spillways, and other appurtenances, shall be performed as per the project drawings.

4.6.7. Damage Repair - Prior to cover material placement, damage to the GCL shall be identified and repaired by the installer. Damage is defined as any rips or tears in the geotextiles, delamination of geotextiles or a displaced panel.

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4.6.7.1. Rip and Tear Repair (Flat Surfaces) - Rips or tears may be repaired by completely exposing the affected area, removing all foreign objects or soil, and by then placing a patch cut from unused GCL over the damage (damaged material may be left in place), with a minimum overlap of 12 inches on all edges.

Accessory bentonite should be placed between the patch edges and the repaired material at a rate of a quarter pound per lineal foot of edge spread in a continuous six inch fillet.

4.6.7.2. Rip and Tear Repair (Slopes) - Damaged GCL material on slopes shall be repaired by the same procedures above, however, the edges of the patch should also be adhered to the repaired liner with an adhesive to keep the patch in position during backfill or cover operations.

4.6.7.3. Displaced Panels - Displaced panels shall be adjusted to the correct position and orientation. The adjusted panel shall then be inspected for any geotextile damage or bentonite loss. Damage shall be repaired by the above procedure.

4.6.7.4. Excessive Premature Hydration - If the GCL is prematurely hydrated (excessive hydration), installer shall notify the QA/QC technician and project engineer for a site specific determination as to whether the material is acceptable or if alternative measures must be taken to ensure the quality of the design - dependent upon the degree of damage if any.

4.7. Cover Material - The cover materials shall be compatible as well as suitable for use over the GCL, and placed in a manner appropriate to the particular subgrade.

4.7.1. Earthen Cover Soil - If the cover material is soil or gravel, a minimum thickness of 12 inches shall be placed over the GCL. The soil cover shall be free of sharp-edged stones greater than 2 inches in size. Laboratory analysis of especially calcareous cover material shall be required to ensure compatibility with the GCL.

4.7.1.1. Equipment - Soil cover shall be placed with low ground pressure equipment. Care should be taken to avoid damaging the GCL by making sharp turns or pivots with equipment as well as sudden starts or stops.

4.7.1.2. Placement - Soils may be placed on the GCL by pushing with a track dozer or by carefully placing it with a loader or a back-hoe. The use of scrapers or pans directly over the GCL is strictly prohibited.

4.7.1.3. Thickness - A minimum thickness of 12 - 24 inches of cover shall be kept between heavy equipment and the GCL at all times, except when final-grading. No heavy vehicles should be driven directly on the GCL until the proper thickness of cover has been placed. A cover of 36 inches should be used in heavy equipment traffic areas.

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4.7.1.4. Compaction - To prevent damage to the GCL, the initial lift(s) of soil cover shall not be compacted in excess of 85 percent Modified Proctor density or as specified by the engineer.

4.7.1.5. Slope Placement - When covering GCL on sloped areas steeper than 4H:1V, cover should be pushed up-slope to minimize tension on the GCL. Cover placement from top to bottom slope shall be approved by the project engineer.

4.7.2. Geosynthetic Cover - Precautions shall be taken to prevent damage to the GCL by restricting the use of heavy equipment over the liner system.

4.7.2.1. Equipment - Installation of the overlying geosynthetic component can be accomplished through the use of *lightweight*, rubber-tired equipment such as a 4-wheel all-terrain vehicle (ATV) or pick up truck/all terrain forklift. This vehicle can be driven directly on the GCL, provided the ATV/truck/forklift makes no sudden stops, starts, or turns.

4.7.2.2. Placement - Smooth HDPE may be dragged across the GCL surface with equipment or by hand labour during positioning. Similarly, the HDPE may be unrolled with the use of low ground pressure equipment.

4.7.2.3. Use of Textured Liners - If a textured geomembrane is placed over the GCL, a slip sheet (such as 20-mil smooth HDPE) shall first be placed over the GCL in order to allow the geomembrane to slide into its proper position. Once the overlying geomembrane is properly positioned, the slip-sheet shall be carefully removed paying close attention to avoiding any movement to the geomembrane.

5.0 **ACTIVATION** - If the GCL will be utilized for the control of non-aqueous phase liquids, prehydration may be necessary. The GCL manufacturer shall be contacted for these cases for site specific recommendations.

6.0 **WARRANTY** - GCL material as well as installation warranties provided by the manufacturer and installer shall be made a part of the final submittal documents.

6.1. **Material** - A five year pro-rated material and workmanship warranty shall be provided by the manufacturer of the GCL, stating that the GCL product supplied to the project was manufactured in accordance with industry accepted practices and meets the manufacturer's specified certified properties.

6.2. **Installation** - The installer of the GCL material shall provide a one year installation workmanship warranty, repairing and or replacing any material not installed in full compliance with the requirements of the specification.

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BENTOMAT® INSTALLATION GUIDELINES

GEOSYNTHETIC CLAY LINERS

CETCO®

BENTOMAT®

GEOSYNTHETIC CLAY LINERS

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NOTICE: THIS DOCUMENT IS INTENDED FOR USE AS A GENERAL GUIDELINE FOR THE INSTALLATION OF CETCO GCLS. THE INFORMATION AND DATA CONTAINED HEREIN ARE BELIEVED TO BE ACCURATE AND RELIABLE. CETCO MAKES NO WARRANTY OF ANY KIND AND ACCEPTS NO RESPONSIBILITY FOR THE RESULTS OBTAINED THROUGH APPLICATION OF THIS INFORMATION. INSTALLATION GUIDELINES ARE SUBJECT TO PERIODIC CHANGES. PLEASE CONSULT OUR WEBSITE @ WWW.CETCO.COM/LT FOR THE MOST RECENT VERSION.

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SECTION 1
INTRODUCTION

1.1
This document provides procedures for the installation of CETCO GCLs in a manner that maximizes safety, efficiency, and the physical integrity of the GCL.

1.2
These guidelines are based upon many years of experience at a variety of sites and should be generally applicable to any type of lining project using CETCO GCLs. Variance from these guidelines is at the engineer's discretion.

1.3
The performance of the GCL is wholly dependent on the quality of its installation. It is the installer's responsibility to adhere to these guidelines, and to the project specifications and drawings as closely as possible. It is the engineer's and owner's responsibility to provide construction quality assurance (CQA) for the installation. This will ensure that the installation has been executed properly. This document covers only installation procedures.

1.4
For additional guidance, refer to ASTM D5888 (Standard Guide For Storage and Handling of Geosynthetic Clay Liners) and ASTM D 6102 (Standard Guide For Installation of Geosynthetic Clay Liners).

SECTION 2
EQUIPMENT REQUIREMENTS

2.1
CETCO GCLs are delivered in rolls typically 2,600-2,950 lbs (1180-1340 kg). Roll dimensions and weights will vary with the dimensions of the product ordered. It is necessary to support this weight using an appropriate core pipe, as indicated in Table 1. For any installation, the core pipe must not deflect more than 3 inches (75 mm), as measured from end to midpoint when a full GCL roll is lifted.

2.2
Lifting chains or straps appropriately rated should be used in combination with a spreader bar made from an I-beam, as shown in Figure 1.

2.3
The spreader bar ensures that lifting chains or straps do not chafe against the ends of the GCL roll, allowing it to rotate freely during installation. Spreader bar and core pipe kits are available through CETCO.

2.4
A front end loader, backhoe, dozer, or other equipment can be utilized with the spreader bar and core pipe or slings. Alternatively, a forklift with a "stinger" attachment may be used for on-site handling. A forklift without a stinger attachment should not be used to lift or handle the GCL rolls. Stinger attachments (Figures 2-4) are specially fabricated to fit various forklift makes and models.

Table 1: Core Requirements

Product	Nominal GCL Roll Size Lenth X Diameter	Typical GCL Roll Weight	Interior Core Size	Core Pipe Length x Diameter	Minimum Core Pipe Strength
BENTOMAT DN, SDN	16' x 24" (4.9 m x 610 mm)	2,650 lbs. (1204 kg)	3 3/4" (100 mm)	20' x 3.5" O.D. (6.1 m x 89 mm)	XXH
BENTOMAT ST	16' x 24" (4.9 m x 610 mm)	2,650 lbs. (1204 kg)	3 3/4" (100 mm)	20' x 3.5" O.D. (6.1 m x 89 mm)	XXH
BENTOMAT STM	16' x 32" (4.9 m x 814 mm)	2,500 lbs. (1130 kg)	3 3/4" (100 mm)	20' x 3.5" O.D. (6.1 m x 89 mm)	XXH
BENTOMAT 200R	16' x 24" (4.9 m x 610 mm)	2,650 lbs. (1204 kg)	3 3/4" (100 mm)	20' x 3.5" O.D. (6.1 m x 89 mm)	XXH
BENTOMAT CLT	16' x 26" (4.9 m x 660 mm)	2,650 lbs. (1204 kg)	3 3/4" (100 mm)	20' x 3.5" O.D. (6.1 m x 89 mm)	XXH
BENTOMAT CL	16' x 25" (4.9 m x 635 mm)	2,650 lbs. (1204 kg)	3 3/4" (100 mm)	20' x 3.5" O.D. (6.1 m x 89 mm)	XXH
BENTOMAT 600 CL	16' x 25" (4.9 m x 635 mm)	2,700 lbs. (1227 kg)	3 3/4" (100 mm)	20' x 3.5" O.D. (6.1 m x 89 mm)	XXH

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FIGURE 1 -SPREADER BAR ASSEMBLY

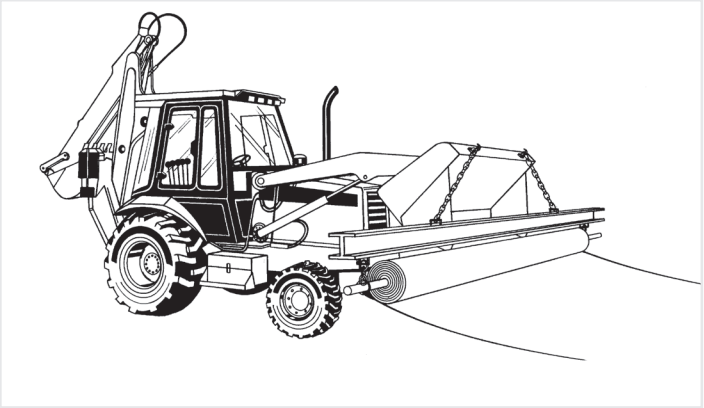


FIGURE 2 - HOOK MOUNT

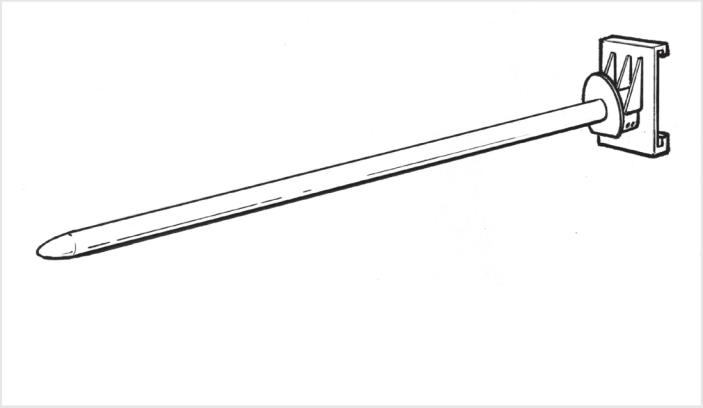


FIGURE 3 - FORK MOUNT (WITH FORK POCKETS)

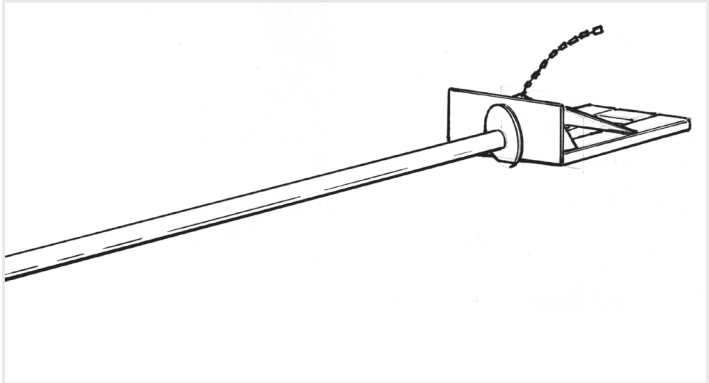
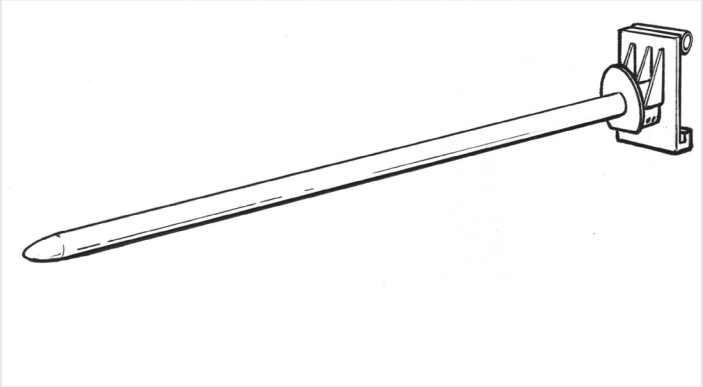


FIGURE 4 - PIN MOUNT



2.5

When installing over certain geosynthetic materials, a 4 wheel, all-terrain vehicle (ATV) can be used to deploy the GCL. An ATV can be driven directly on the GCL provided that no sudden stops, starts, or turns are made.

2.6

Additional equipment needed for installation of CETCO GCLs includes:

- Utility knife and spare blades (for cutting the GCL)
- Granular bentonite for end-of-roll GCL seams and for sealing around structures and details
- Waterproof tarpaulins (for temporary cover on installed material as well as for stockpiled rolls)
- Optional flat-bladed vise grips (for positioning the GCL panel by hand)

2.7

The CETCO EASY ROLLER™ GCL Deployment System is a preferred method of installing geosynthetic clay liners. Use of the EASY ROLLER system eliminates the need for spreader bars and heavy core pipes. Installation speed and worker safety are also significantly increased. For further details, contact CETCO.

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SECTION 3
SHIPPING, UNLOADING, & STORAGE

3.1
All lot and roll numbers should be recorded and compared to the packing list. Each roll of GCL should also be visually inspected during unloading to determine if any packaging has been damaged. Damage, whether obvious or suspected, should be recorded and the affected rolls marked.

3.2
Major damage suspected to have occurred during transit should be reported to the carrier and to CETCO immediately. The nature of the damage should also be indicated on the bill of lading, with specific lot and roll numbers noted. Accumulation of some moisture within roll packaging is normal and does not damage the product.

3.3
The party directly responsible for unloading the GCL should refer to this manual prior to shipment to ascertain the appropriateness of their unloading equipment and procedures. Unloading and on-site handling of the GCL should be supervised.

3.4
In most cases, CETCO GCLs are delivered on flatbed trucks. There are three methods of unloading: core pipe and spreader bar, slings, or stinger bar. To unload the rolls from the flat-bed using a core pipe and spreader bar, first insert the core pipe through the core tube. Secure the lifting chains or straps to each end of the core pipe and to the spreader bar mounted on the lifting equipment. Hoist the roll straight up and make sure its weight is evenly distributed so that it does not tilt or sway when lifted.

3.5
All CETCO GCLs are delivered with two 2'x 12' (50 mm x 3.65 mm) Type V polyester endless slings on each roll. Before lifting, check the position of the slings. Each sling should be tied off in the choke position, approximately one third (1/3) from the end of the roll. Hoist the roll straight up so that it does not tilt or sway when lifted.

3.6
In some cases, GCL rolls will be stacked in three pyramids on flatbed trucks. If slings are not used, rolls will require unloading with a stinger bar and extendible boom fork lift. Spreader bars will not work in this situation because of the limited access between the stacks of GCL. Three types of stingers are available from CETCO, a hook mount, fork mount and pin mount (Figures 2-4). To unload, guide the stinger through the core tube before lifting the GCL roll and removing the truck.

3.7
An extendable boom fork lift with a stinger bar is required for unloading vans. Rolls in the nose and center of the van should first be carefully pulled toward the door using the slings provided on the rolls.

3.8
Rolls should be stored at the job site away from high-traffic areas but sufficiently close to the active work area to minimize handling. The designated storage area should be flat, dry, and stable. Moisture protection of the GCL is provided by its packaging; however, based on expected weather conditions, an additional tarpaulin or plastic sheet may be required for added protection during prolonged outdoor storage.

3.9
Rolls should be stacked in a manner that prevents them from sliding or rolling. This can be accomplished by chocking the bottom layer of rolls. Rolls should be stacked no higher than the height at which they can be safely handled by laborers (typically no higher than four layers of rolls). Rolls should never be stacked on end.

SECTION 4
SUBGRADE PREPARATION

4.1
Subgrade surfaces consisting of granular soils or gravels are not acceptable due to their large void fraction and puncture potential. In applications where the GCL is the only barrier, subgrade soils should have a particle-size distribution of at least 80 percent finer than the #60 sieve (0.25 mm). In other applications, subgrade soils should range between fines and 1 inch (25 mm). In high-head applications (greater than 1 foot or 30.48 cm), CETCO recommends a membrane-laminated GCL (BENTOMAT CLT, BENTOMAT CL, or BENTOMAT 600 CL).

4.2
When the GCL is placed over an earthen subgrade, the subgrade surface must be prepared in accordance with the project specifications. The engineer's approval of the subgrade must be obtained prior to installation. The finished surface should be firm and unyielding, without abrupt elevation changes, voids, cracks, ice, or standing water.

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4.3

The subgrade surface must be smooth and free of vegetation, sharp-edged rocks, stones, sticks, construction debris, and other foreign matter that could contact the GCL. The subgrade should be rolled with a smooth-drum compactor to remove any wheel ruts greater than 1 inch in depth, footprints, or other abrupt grade changes. Furthermore, all protrusions extending more than 0.5 inch (12 mm) from the subgrade surface shall be removed, crushed, or pushed into the surface with a smooth-drum compactor. The GCL may be installed on a frozen subgrade, but the subgrade soil in the unfrozen state should meet the above requirements.

SECTION 5 INSTALLATION

5.1

GCL rolls should be taken to the work area of the site in their original packaging. The orientation of the GCL (i.e., which side faces up) may be important if the GCL has two different types of geosynthetics. Check with the project engineer to determine if there is a preferred installation orientation for the GCL. If no specific orientation is required, allow the roll to unwind from the bottom rather than pulling from the top (Figure 5A). The arrow sticker on the plastic sleeve indicates the direction that the GCL will naturally unroll when placed on the ground (Figure 6). Prior to deployment, the packaging should be carefully removed without damaging the GCL.

5.2

Equipment which could damage the GCL should not be allowed to travel directly on it. Therefore, acceptable installation may be accomplished whereby the GCL is unrolled in front of backwards-moving equipment (Figure 7). If the installation equipment causes rutting of the subgrade, the subgrade must be restored to its originally accepted condition before placement continues.

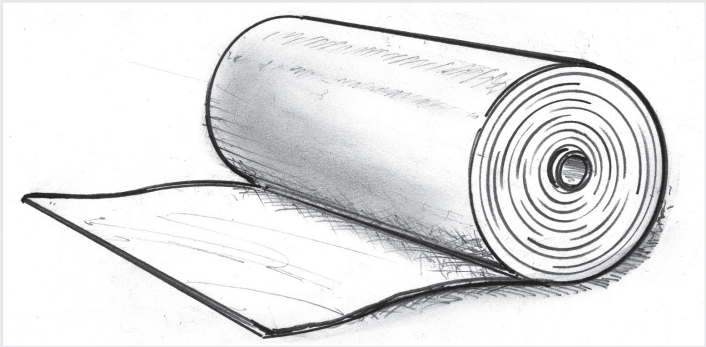
5.3

If sufficient access is available, GCL may be deployed by suspending the roll at the top of the slope, with a group of laborers pulling the material off of the roll, and down the slope (Figure 8).

5.4

GCL rolls should not be released on the slope and allowed to unroll freely by gravity.

FIGURE 5 A & B
"NATURAL' ORIENTATION (5A)



TOP OF THE ROLL (5B)

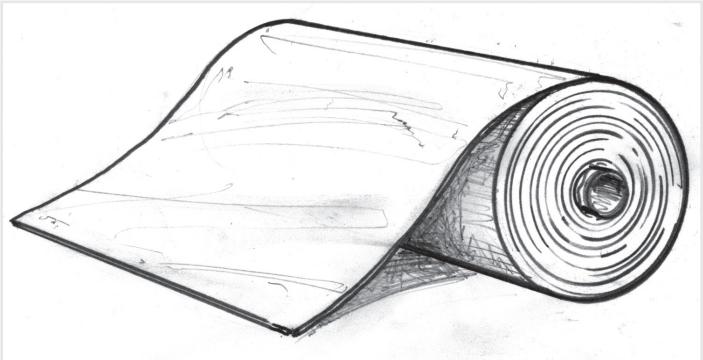


FIGURE 6 - DIRECTION TO UNROLL GCL ON GROUND PER FIGURE 5A

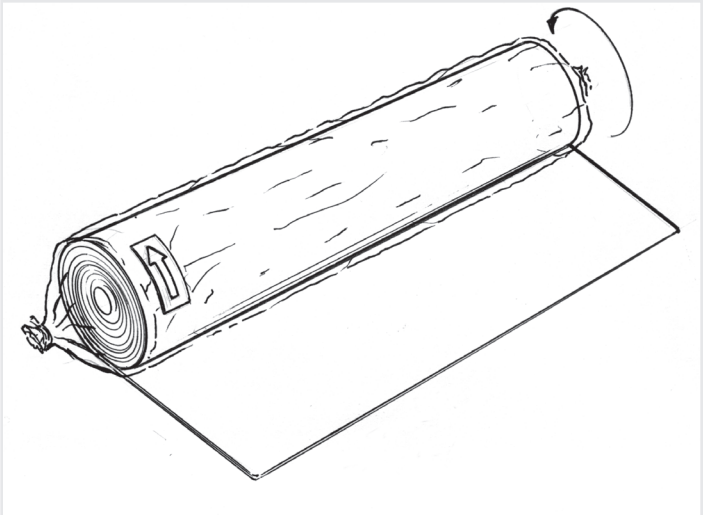


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FIGURE 7 - TYPICAL BENTOMAT® INSTALLATION TECHNIQUE

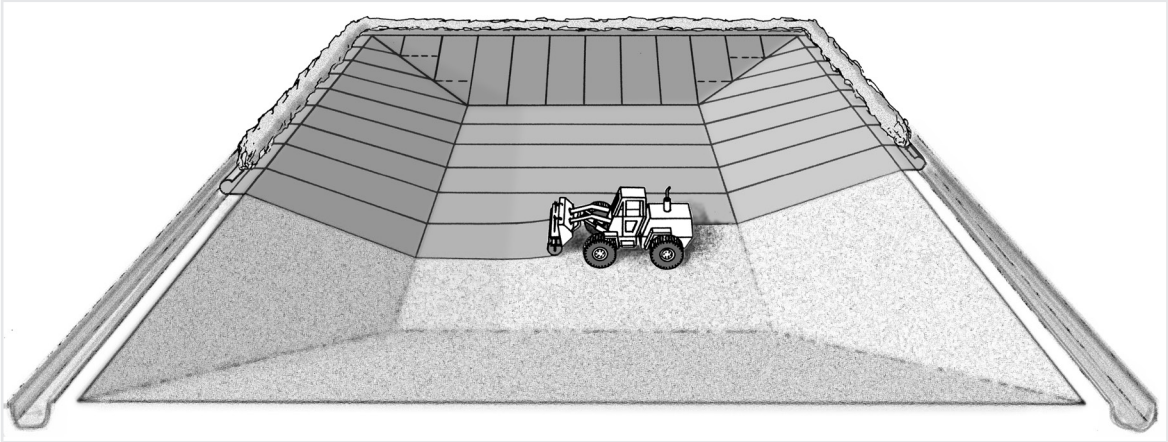
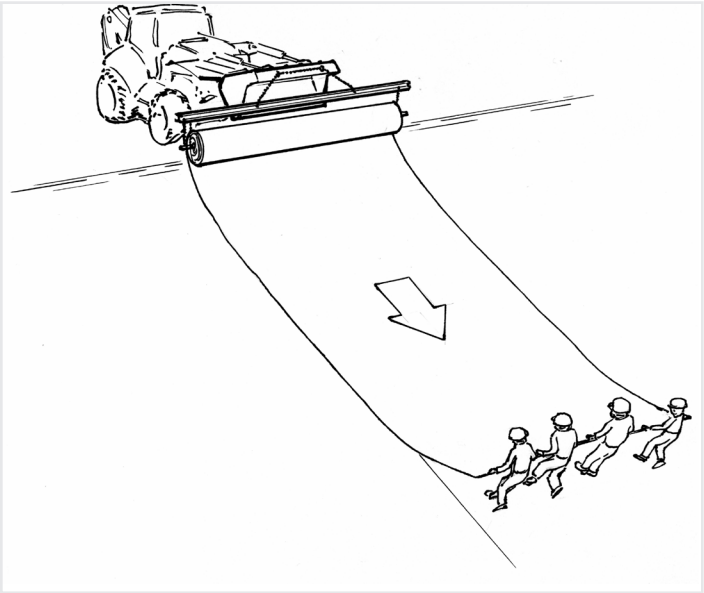


FIGURE 8 - UNROLLING BENTOMAT



5.5

Care must be taken to minimize the extent to which the GCL is dragged across the subgrade to avoid damage to the bottom surface of the GCL. Care must also be taken when adjusting BENTOMAT CLT panels to avoid damage to the geotextile surface of one panel of GCL by the textured sheet of another panel of GCL. A temporary geosynthetic subgrade cover commonly known as a slip sheet or rub sheet may be used to reduce friction damage during placement.

5.6

The GCL should be placed so that seams are parallel to the direction of the slope. End-of-panel seams should also be located at least 3 ft (1 m) from the toe and crest of slopes steeper than 4H:1V. End-of-roll seams on slopes should be used only if the liner is not expected to be in tension.

5.7

All GCL panels should lie flat, with no wrinkles or folds, especially at the exposed edges of the panels. When BENTOMAT geosynthetic clay liners with SUPERGROOVE® is repositioned, it should be gripped inside the SUPERGROOVE by folding the edge.

5.8

The GCL should not be installed in standing water or during rainy weather. Only as much GCL shall be deployed as can be covered at the end of the working day with soil, geomembrane, or a temporary waterproof tarpaulin. The GCL shall not be left uncovered overnight. If the GCL is hydrated when no confining stress is present, it may be necessary to remove and replace the hydrated material. CETCO recommends that premature hydration be evaluated on a case-by-case basis. The project engineer, CQA inspector, and CETCO TR-312 should be consulted for specific guidance if premature hydration occurs. The type of GCL, duration of exposure, degree of hydration, location in the liner system, and expected bearing loads should all be considered.

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In many instances, a needlepunch reinforced GCL may not require removal/replacement if the following are true:

- The geotextiles have not been separated, torn, or otherwise damaged
- There is no evidence that the needlepunching between the two geotextiles has been compromised
- The GCL does not leave deep indentations when stepped upon
- Overlapped seams with bentonite enhancement (see Section 7) are intact

5.9

For the convenience of the installer, hash marks are placed on BENTOMAT goesynthetic clay liners every 5' (1.5 m) of length.

SECTION 6 ANCHORAGE

6.1

If required by the project drawings, the end of the GCL roll should be placed in an anchor trench at the top of a slope. The front edge of the trench should be rounded to eliminate any sharp corners that could cause excessive stress on the GCL. Loose soil should be removed or compacted into the floor of the trench.

6.2

If a trench is used for anchoring the end of the GCL, soil backfill should be placed in the trench to provide resistance against pullout. The size and shape of the trench, as well as the appropriate backfill procedures should be in accordance with the project drawings and specifications. Typical dimensions are shown in Figure 9.

6.3

The GCL should be placed in the anchor trench such that it covers the entire trench floor but does not extend up the rear trench wall.

6.4

Sufficient anchorage may alternately be obtained by extending the end of the GCL roll back from the crest of the slope, and placing cover soil. The length of this "runout" anchor should be prepared in accordance with project drawings and specifications.

SECTION 7 SEAMING

7.1

GCL seams are constructed by overlapping adjacent panel edges and ends. Care should be taken to ensure that the overlap zone is not contaminated with loose soil or other debris. BENTOMAT 200R, BENTOMAT ST, BENTOMAT DN, and BENTOMAT SDN have SUPERGROOVE® which provides self-seaming capabilities in their longitudinal overlaps, and therefore do not require supplemental bentonite. However, for pond applications, supplemental bentonite must be used in longitudinal seams, regardless of the CETCO GCL.

FIGURE 9 - TYPICAL ANCHOR TRENCH DESIGN

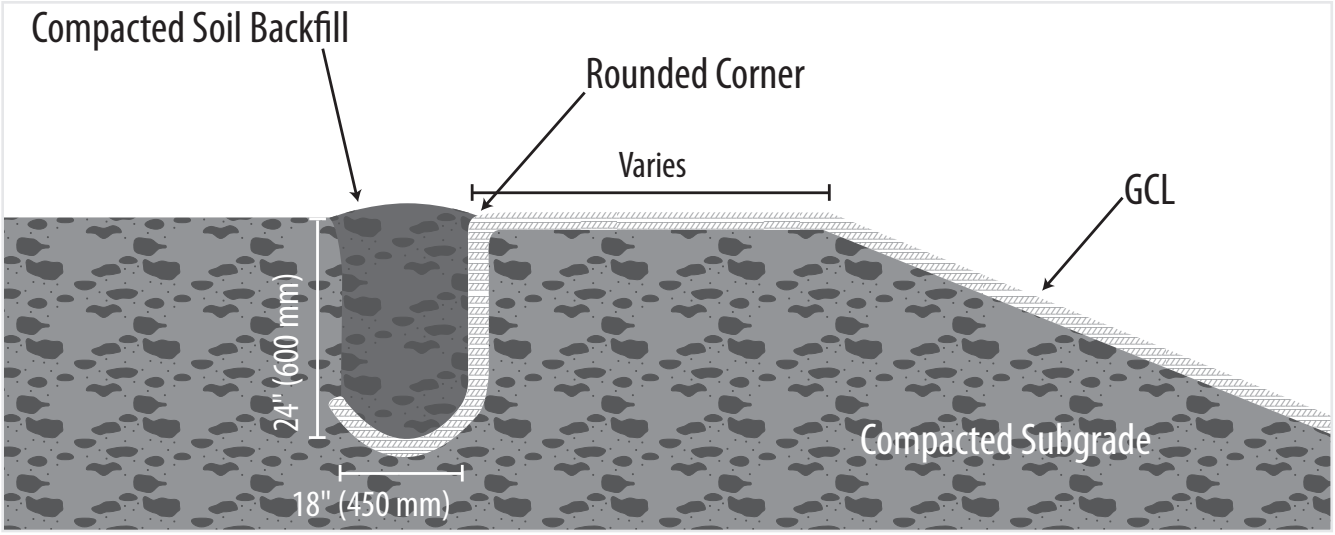

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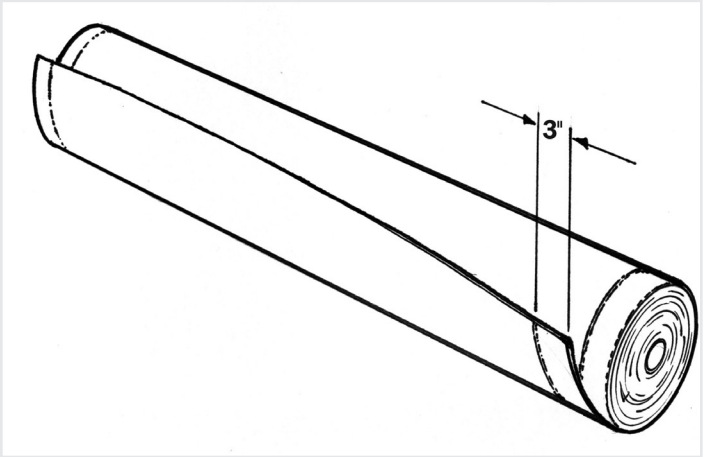
FIGURE 10 - SUPERGROOVE®



7.2

Longitudinal seams should be overlapped a minimum of 6 inches (150 mm) for BENTOMAT geosynthetic clay liners. For high-head applications (greater than 1 foot or 20.48 cm) involving BENTOMAT CL, BENTOMAT CLT, or BENTOMAT 600 CL, a minimum longitudinal seam overlap of 12 inches (300 mm) and supplemental bentonite (per Section 7.6) is recommended.

7.3

End-of-panel overlapped seams should be overlapped 24 inches (600 mm) for BENTOMAT geosynthetic clay liners.

7.4

End-of-panel overlapped seams are constructed such that they are shingled in the direction of the grade to prevent runoff from entering the overlap zone. End-of-panel seams on slopes are permissible, provided adequate slope stability analysis has been conducted (i.e., the GCL is not expected to be in tension). Bentonite-enhanced seams are required for all BENTOMAT end-of-panel overlapped seams.

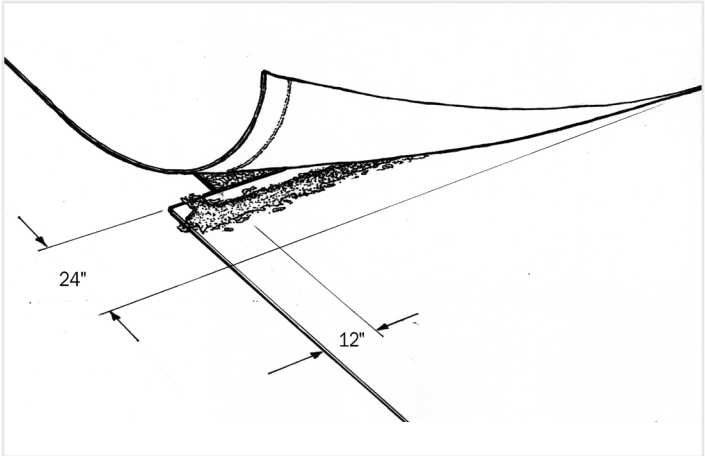
7.5

BENTOMAT end-of-panel, bentonite-enhanced, overlapped seams are constructed first by overlapping the adjacent panels, exposing the underlying panel, and then applying a continuous bead or fillet of granular sodium bentonite 12" from the edge of the underlying panel (Figure 11). The minimum application rate at which the bentonite is applied is one-quarter pound per linear foot (0.4 kg/m).

7.6

If longitudinal bentonite enhanced seams are required for BENTOMAT 200R, BENTOMAT ST, BENTOMAT DN, or BENTOMAT SDN, they are constructed by overlapping the adjacent panels a minimum 6 inches (150 mm), exposing the underlying edge, and applying a continuous bead of granular bentonite approximately 3 inches (75 mm) from the edge. For pond applications involving BENTOMAT CL or BENTOMAT CLT, longitudinal seams are constructed by overlapping adjacent panels by 12 inches (300 mm), exposing the underlying edge, and applying a continuous bead of bentonite approximately 6 inches (150 mm) from the edge. The minimum application rate for the granular bentonite is one quarter pound per linear foot (0.4 kg/m).

FIGURE 11
BENTOMAT END-OF-PANEL OVERLAPPED SEAM



SECTION 8
SEALING AROUND PENETRATIONS AND STRUCTURES

8.1

Cutting the GCL should be performed using a sharp utility knife. Frequent blade changes are recommended to avoid irregular tearing of the geotextile components of the GCL during the cutting process.

8.2

The GCL should be sealed around penetrations and structures embedded in the subgrade in accordance with Figures 12 through 14. Granular bentonite shall be used liberally (approximately 0.25 lbs/ln. ft. or 0.4 kg/m) to seal the GCL to these structures.

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FIGURE 12 A CROSS-SECTION OF A HORIZONTAL PIPE PENETRATION

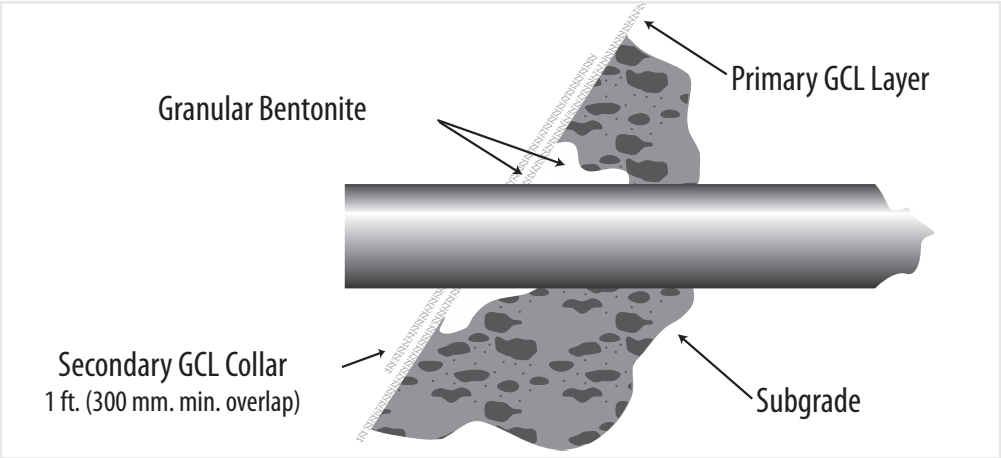


FIGURE 12 B ISOMETRIC VIEW OF A COMPLETED HORIZONTAL PIPE PENETRATION

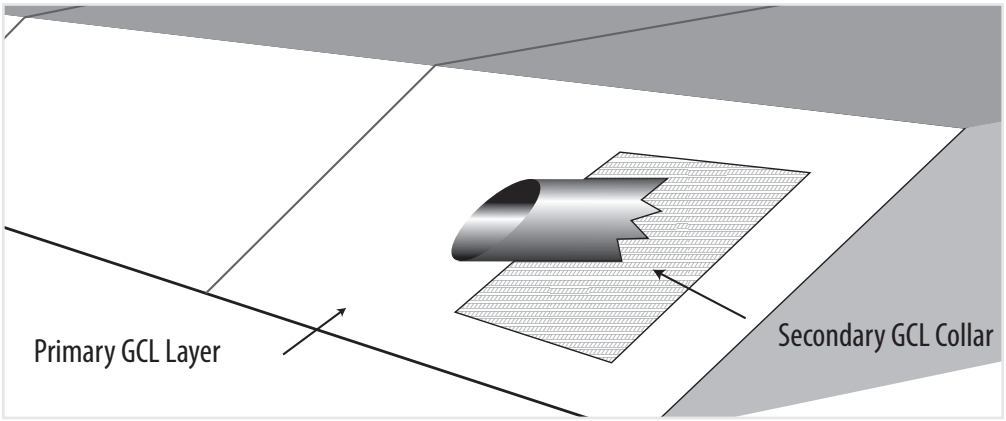


FIGURE 13 A CROSS-SECTION OF A VERTICAL PENETRATION

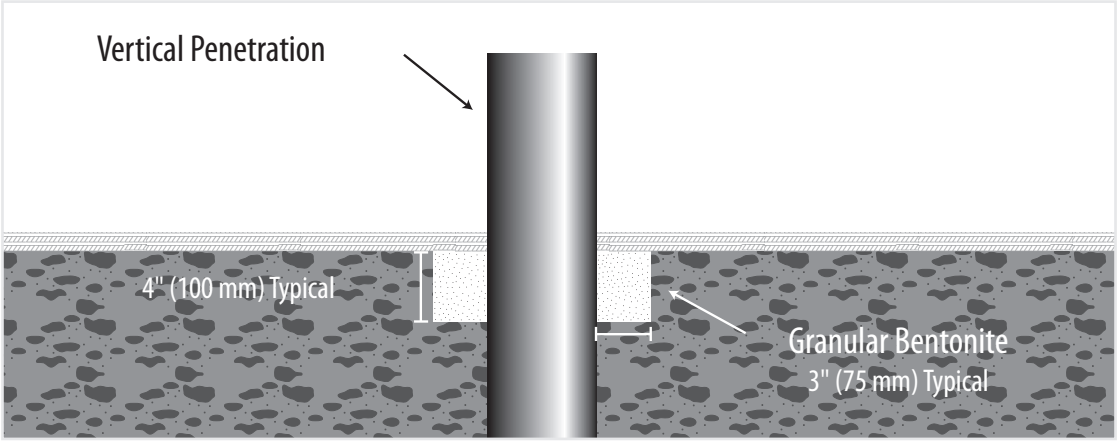


FIGURE 13B ISOMETRIC VIEW OF THE COMPLETED VERTICAL PENETRATION

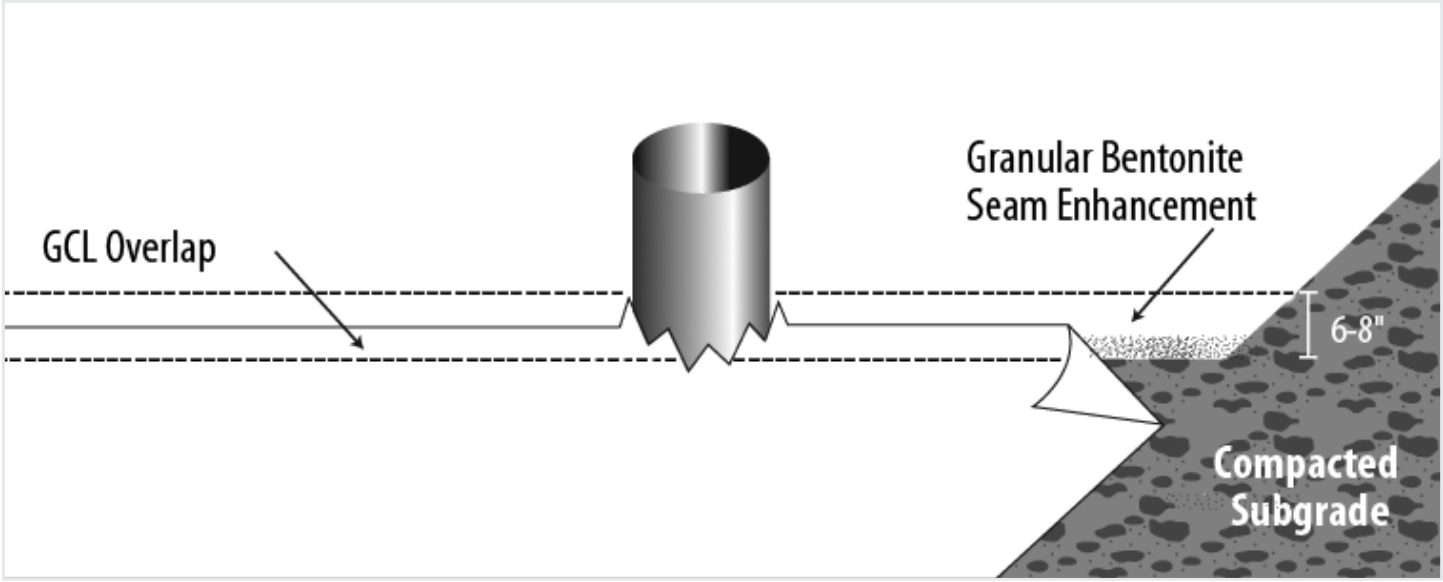
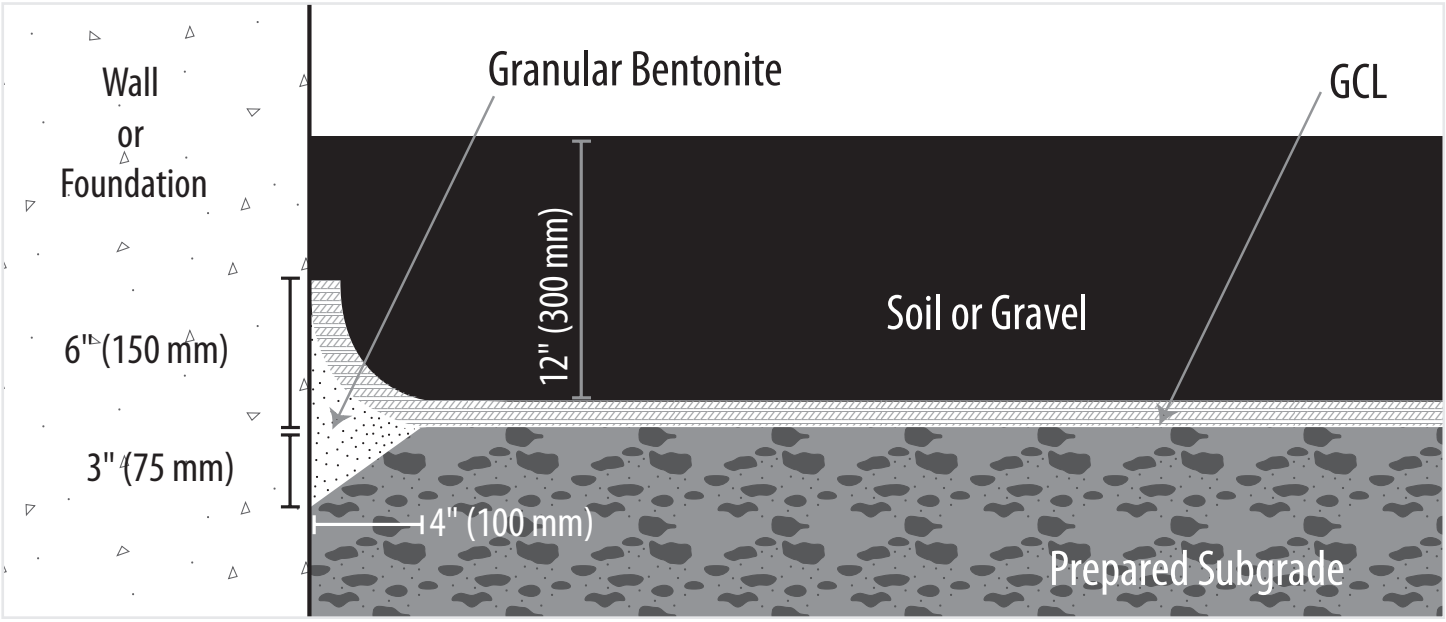


FIGURE 14 CROSS-SECTION OF GCL SEAL AGAINST AN EMBEDDED STRUCTURE OR WALL



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8.3
When the GCL is placed over a horizontal pipe penetration, a "notch" should be excavated into the subgrade around the penetration (Figure 12a). The notch should then be backfilled with granular bentonite. A secondary collar of GCL should be placed around the penetration, as shown in Figure 12b. It is helpful to first trace an outline of the penetration on the GCL and then cut a "star" pattern in the collar to enhance the collar's fit to the penetration. Granular bentonite should be applied between the primary GCL layer and the secondary GCL collar.

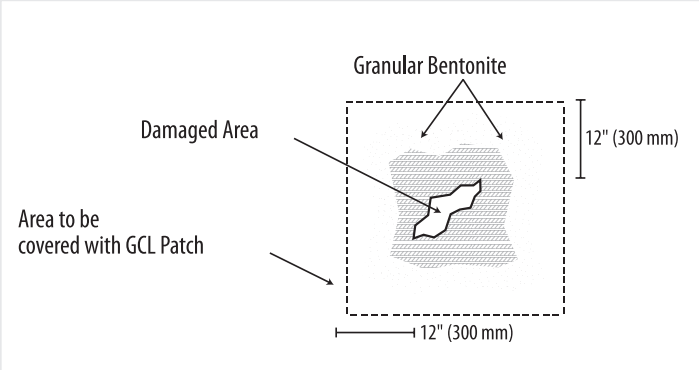
8.4
Vertical penetrations are prepared by notching into the subgrade as shown in Figure 13a. The penetration can be completed with two separate pieces of GCL as shown in Figure 13b. Alternatively, a secondary collar can be placed as shown in Figure 12a or 12b.

8.5
When the GCL is terminated at a structure or wall that is embedded into the subgrade on the floor of the containment area, the subgrade should be notched, as described in Sections 8.3 and 8.4. The notch is filled with granular bentonite; the GCL should be placed over the notch and up against the structure (Figure 14). Connection to the structure can be accomplished by placement of soil or stone backfill in this area. When structures or walls are at the top of a slope, additional detailing may be required. Contact CETCO for specific guidance.

SECTION 9
DAMAGE REPAIR

9.1
If the GCL is damaged (torn, punctured, perforated, etc.) during installation, it may be possible to repair it by cutting a patch to fit over the damaged area (Figure 15). The patch should be cut to size such that a minimum overlap of 12 inches (300 mm) is achieved around all parts of the damaged area. Granular bentonite should be applied around the damaged area prior to placement of the patch. It may be necessary to use an adhesive such as wood glue to affix the patch in place so that it is not displaced during cover placement. Smaller patches may be tucked under the damaged area to prevent patch movement.

FIGURE 15 DAMAGE REPAIR BY PATCHING



SECTION 10
COVER PLACEMENT

10.1
The final thickness of soil cover on the GCL varies with the application. A minimum cover layer must be at least 1 foot (300 mm) thick to provide confining stress to the GCL, eliminate the potential for seam separation and prevent damage by equipment, erosion, etc.

10.2
Cover soils should be free of angular stones or other foreign matter that could damage the GCL. Cover soils should be approved by the engineer with respect to particle size, uniformity, and chemical compatibility. Consult CETCO if cover soils have high concentrations of calcium (e.g. limestone, dolomite, gypsum, seashell fragments).

10.3
Recommended cover soils should have a particle size distribution ranging between fines and 1 inch (25 mm), unless a cushioning geotextile is specified.

10.4
Soil cover shall be placed over the GCL using construction equipment that minimizes stresses on the GCL. A minimum thickness of 1 foot (300 mm) of cover soil should be maintained between the equipment tires/tracks and the GCL at all times during the covering process. In high-traffic areas such as on roadways, a minimum thickness of 2 feet (600 mm) is required.

10.5
Soil cover should be placed in a manner that prevents the soil from entering the GCL overlap zones. Soil cover should be pushed up on slopes, not down slopes, to minimize tensile forces on the GCL.

10.6
When a textured geomembrane is installed over the GCL, a temporary geosynthetic covering known as a slip sheet or rub sheet should be used to minimize friction during placement and to allow the textured geomembranes to be more easily moved into its final position.

10.7
Cyclical wetting and drying of GCL covered only with geomembrane can cause overlap separation. Soil cover should be placed promptly whenever possible. Geomembranes should be covered with a white geotextile and/or operations layer without delay to minimize the intensity of wet-dry cycling. If there is the potential for unconfined cyclic wetting and drying over an extended period of time, the longitudinal seam overlaps should be increased based on the project engineer's recommendation.

10.8
To avoid seam separation, the GCL should not be put in excessive tension by the weight or movement of textured geomembrane on steep slopes. If there is the potential for unconfined geomembrane expansion and contraction over an extended period of time, the longitudinal seam overlaps should be increased based upon the project engineer's recommendation.

SECTION 11
HYDRATION

11.1
Hydration is usually accomplished by natural rainfall and/or absorption of moisture from soil. However, in cases where the containment of non-aqueous liquid is required, it may be necessary to hydrate the covered GCL with water prior to use.

11.2
If manual hydration is necessary, water can be introduced by flooding the covered lined area or using a sprinkler system. If flooding, care must be taken to diffuse the energy of the water discharge so that the cover material is not displaced.

11.3
If the GCL is hydrated when no confining stress is present, it may be necessary to remove and replace the hydrated material.

As discussed in Section 5.8, in many instances a needlepunch reinforced GCL may not require removal/replacement if the following are true:

- The geotextiles have not been separated, torn or otherwise damaged
- There is no evidence that the needlepunching between the two geotextiles has been compromised
- The GCL does not leave deep indentations when stepped upon
- Any overlapped seams with bentonite enhancement (see Section 7) are intact

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APPENDIX

D BORING LOGS

Project Name: Former EPT Ithaca	Client:	Location: Ithaca, New York	Boring Log: *AOC35A-P1*
Drilled By: Parratt Wolff, Inc./Matt Carnie	Drill Start Date:	Drill End Date: 4/1/2019	Drill Method: Direct Push
Logged By: Nathaniel Winston	Total Depth (ft): 4	Bore Diameter (in): 2	Ground Surface (ft): Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
								Silt (ml) Dark yellowish brown (10YR4/4) silt, trace rootlets; moist; soft.
1								1
2				- - - -	75	(0-2) 0.0 (2-4) 0.0		***Ash, Slag, and Sand*** Fill: Dark black ash, sand, and slag; moist, becoming wet @3.5' bgs.; loose.
3								
4								Bottom of Boring at 4 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
5								
6								
7								
8								
9								

Project Name: Former EPT Ithaca	Client:	Location: Ithaca, New York	Boring Log: AOC35A-P2
Drilled By: Parratt Wolff, Inc./Matt Carnie	Drill Start Date:	Drill End Date: 4/2/2019	Drill Method: Direct Push
Logged By: Nathaniel Winston	Total Depth (ft): 7.8	Bore Diameter (in): 2	Ground Surface (ft): Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
								Silt (ml) Topsoil, brown (7.5YR4/4) silt, trace gravel, trace fine sand, trace rootlets; soft; non-cohesive; moist. (0.3)
1								***Silt with Gravel (ml)*** Light brown (7.5YR6/3) silt and sub-angular gravel (0.2-2.0"); medium dense; non-cohesive; dry. (1.4)
2					100	(0-2) 0.0 (2-4) 0.0		***Ash, Slag, and Sand*** Fill: Dark black ash, sand, and slag; dry; loose.
3								
4								(4.4)
5								***Silt (ml)*** Light brown (7.5YR6/3) silt, trace sub-rounded gravel (0.2-0.5""); medium dense; cohesive; non-plastic; dry.
6					95	(4-6) 0.0 (6-7.8) 0.0		
7								(6.5) ***Silty Gravel (gm)*** Light brown (7.5YR6/3) silt and weathered bedrock fragments, becoming only bedrock fragments at 7.5' bgs; medium dense to dense; moist. Refusal at 7.8' bgs.
8								Bottom of Boring at 7.8 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
9								

Project Name: Former EPT Ithaca	Client:	Location: Ithaca, New York	Boring Log: *AOC35A-P3*
Drilled By: Parratt Wolff, Inc./Matt Carnie	Drill Start Date:	Drill End Date: 4/2/2019	Drill Method: Direct Push
Logged By: Nathaniel Winston	Total Depth (ft): 4	Bore Diameter (in): 2	Ground Surface (ft): Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
								Silt (ml) Topsoil, brown (7.5YR4/4) silt, trace gravel, trace fine sand, trace rootlets; soft; non-cohesive; moist. (0.4)
1								***Silt with Gravel (ml)*** Light brown (7.5YR6/3) silt and sub-angular gravel (0.2-2.0"); medium dense; non-cohesive; dry. (1.3)
2				- - - -	93.75	(0-2) 0.0 (2-4) 0.0		***Ash, Slag, and Sand*** Fill: Dark black ash, sand, and slag; dry; loose. (2.9)
3								***Silt (ml)*** Light brown (7.5YR6/3) silt, trace sub-rounded gravel (0.2-0.5"); medium dense; cohesive; non-plastic; moist.
4								Bottom of Boring at 4 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
5								
6								
7								
8								
9								

Project Name: Former EPT Ithaca	**Client:**	**Location:** Ithaca, New York	**Boring Log:** *AOC35A-P4*
Drilled By: Parratt Wolff, Inc./Matt Carnie	**Drill Start Date:**	**Drill End Date:** 4/1/2019	**Drill Method:** Direct Push
Logged By: Nathaniel Winston	**Total Depth (ft):** 4	**Bore Diameter (in):** 2	**Ground Surface (ft):** Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
								Silt (ml) Dark yellowish brown (10YR4/4) silt, trace rootlets; moist; soft.
1								1
				-				***Ash, Slag, and Sand*** Fill: Dark black ash, sand, and slag; dry; loose.
2				-	93.75	(0-2) 0.0 (2-4) 0.0		
				-				
				-				
3								2.9
								Ash, Slag, and Sand Fill: White sandy ash, and slag; dry; loose.
								3.6
4								***Bedrock*** Weathered bedrock fragments with trace silt; dry; loose.
								Bottom of Boring at 4 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
5								
6								
7								
8								
9								

Project Name: Former EPT Ithaca	Client:	Location: Ithaca, New York	Boring Log: *AOC35A-P5*
Drilled By: Parratt Wolff, Inc./Matt Carnie	Drill Start Date:	Drill End Date: 4/1/2019	Drill Method: Direct Push
Logged By: Nathaniel Winston	Total Depth (ft): 7	Bore Diameter (in): 2	Ground Surface (ft): Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
								Silt (ml) Dark yellowish brown (10YR4/4) silt, trace rootlets; moist; soft.
1								1
								Well-Graded Gravel (gw) Gravel, trace brown (10YR4/4) silt; dense; dry.
								1.75
2					87.5	(0-2) 0 (2-4) 0.7		***Ash, Slag, and Sand*** Fill: Dark black ash, sand, and slag; dry; loose.
3								
4								
								4.5
5					100	(4-7) 0.2		***Silt with Gravel (ml)*** Yellowish brown (10yr5/4) silt, some gravel (0-2"); medium dense becoming soft at 6.5' bgs; cohesive; non-plastic; moist, becoming wet @ 6.5' bgs. Refusal at 7.0' bgs.
6								
7								Bottom of Boring at 7 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
8								
9								

Project Name: Former EPT Ithaca	**Client:**	**Location:** Ithaca, New York	**Boring Log:** ***AOC35A-S1***
Drilled By: Parratt Wolff, Inc./Matt Carnie	**Drill Start Date:**	**Drill End Date:** 4/1/2019	**Drill Method:** Direct Push
Logged By: Nathaniel Winston	**Total Depth (ft):** 5	**Bore Diameter (in):** 2	**Ground Surface (ft):** Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
								Silt (ml) Dark yellowish brown (10YR4/4) silt, trace rootlets; moist; soft.
								0.75
1								***Well-Graded Gravel with Silt (gw-gm)*** Dark yellowish brown (10YR4/4) silt and gravel (0.2-2.0"); moist; soft.
								1.25
								Ash, Slag, and Sand Fill: Dark black ash, sand, and slag; dry; loose.
								1.6
2					87.5	0.0 (0-2) 0.0 (2-4)		***Silty Gravel (gm)*** Gravel (0.2-2.0"), some dark yellowish brown (10YR4/4) silt; soft to medium dense; moist.
								2.8
3								***Silt (ml)*** Brown (10YR4/3) silt; soft to stiff; moist.
4					100	0.0 (4-5)		
								4.75
5								***Bedrock*** Weathered bedrock fragments with trace silt; dry; loose. Refusal at 5.0' bgs.
								Bottom of Boring at 5 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
6								
7								
8								
9								

Project Name: Former EPT Ithaca	**Client:**	**Location:** Ithaca, New York	**Boring Log:** ***AOC35A-S10***
Drilled By: Parratt Wolff, Inc./Matt Carnie	**Drill Start Date:**	**Drill End Date:** 4/1/2019	**Drill Method:** Direct Push
Logged By: Nathaniel Winston	**Total Depth (ft):** 4	**Bore Diameter (in):** 2	**Ground Surface (ft):** Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
								Topsoil Topsoil, trace rootlets; moist; soft. PID readings in top 2" of soil.
								0.5
								Silt (ml) Dark yellowish brown (10YR4/4) silt, trace rootlets; moist; soft.
								0.75
1				-				***Ash, Slag, and Sand*** Fill: Dark black ash, sand, and slag; dry; loose.
2				-	87.5	1.8 (0-2) 0.0 (2-4)		
				-				
				-				
								2.8
3								***Sandy Silt with Gravel (ml)*** Yellowish brown (10YR5/4) silt and gravel; dense; dry.
4								Bottom of Boring at 4 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
5								
6								
7								
8								
9								

Project Name: Former EPT Ithaca	**Client:**	**Location:** Ithaca, New York	**Boring Log:** ***AOC35A-S2***
Drilled By: Parratt Wolff, Inc./Matt Carnie	**Drill Start Date:**	**Drill End Date:** 4/2/2019	**Drill Method:** Direct Push
Logged By: Nathaniel Winston	**Total Depth (ft):** 2	**Bore Diameter (in):** 2	**Ground Surface (ft):** Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
				-				***Silt (ml)*** Topsoil, brown (7.5YR4/4) silt, trace gravel, trace fine sand, trace rootlets; soft; non-cohesive; moist.
								0.5
				-				***Silt with Gravel (ml)*** Light brown (7.5YR6/3) silt and sub-angular gravel (0.2-2.0"); medium dense; non-cohesive; dry.
1					100	(0-2) 0.0		
				-				
								1.5
				-				***Ash, Slag, and Sand*** Fill: Dark black ash, sand, and slag; dry; loose.
2								Bottom of Boring at 2 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
3								
4								

Project Name: Former EPT Ithaca	Client:	Location: Ithaca, New York	Boring Log: AOC35A-S3
Drilled By: Parratt Wolff, Inc./Matt Carnie	Drill Start Date:	Drill End Date: 4/2/2019	Drill Method: Direct Push
Logged By: Nathaniel Winston	Total Depth (ft): 4	Bore Diameter (in): 2	Ground Surface (ft): Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
				-				***Silt (ml)*** Topsoil, brown (7.5YR4/4) silt, trace gravel, trace fine sand, trace rootlets; soft; non-cohesive; moist. 0.4
1				-	100	(0-2) 0.0		***Silt with Gravel (ml)*** Light brown (7.5YR6/3) silt and sub-angular gravel (0.2-2.0"); medium dense; non-cohesive; dry. 1.3
				-				***Ash, Slag, and Sand*** Fill: Dark black ash, sand, and slag; dry; loose.
2				-				
3								2.9 ***Silt with Gravel (ml)*** Light brown (7.5YR6/3) silt and sub-rounded gravel (0.2-2.0"); medium dense; cohesive; non-plastic; moist.
4								Bottom of Boring at 4 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
5								
6								
7								
8								
9								

Project Name: Former EPT Ithaca	Client:	Location: Ithaca, New York	Boring Log: AOC35A-S4
Drilled By: Parratt Wolff, Inc./Matt Carnie	Drill Start Date:	Drill End Date: 4/2/2019	Drill Method: Direct Push
Logged By: Nathaniel Winston	Total Depth (ft): 4	Bore Diameter (in): 2	Ground Surface (ft): Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
								Silt (ml) Topsoil, brown (7.5YR4/4) silt, trace gravel, trace fine sand, trace rootlets; soft; non-cohesive; moist. (0.5)
1				-				***Silt with Gravel (ml)*** Light brown (7.5YR6/3) silt and sub-angular gravel (0.2-2.0"); medium dense; non-cohesive; dry. (0.75)
				-				***Ash, Slag, and Sand*** Fill: Dark black ash, sand, and slag; dry; loose. (1.5)
2				-	100	(0-2) 0.0 (2-4) 0.0		***Silt (ml)*** Light brown (7.5YR6/3) silt, trace sub-rounded gravel (0.2-0.5"); medium dense; cohesive; non-plastic; moist.
3				-				
4								Bottom of Boring at 4 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
5								
6								
7								
8								
9								

Project Name: Former EPT Ithaca	Client:	Location: Ithaca, New York	Boring Log: *AOC35A-S5*
Drilled By: Parratt Wolff, Inc./Matt Carnie	Drill Start Date:	Drill End Date: 4/2/2019	Drill Method: Direct Push
Logged By: Nathaniel Winston	Total Depth (ft): 4	Bore Diameter (in): 2	Ground Surface (ft): Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
								Silt (ml) Topsoil, brown (7.5YR4/4) silt, trace gravel, trace fine sand, trace rootlets; soft; non-cohesive; moist. (0.3)
1				-				***Silt with Gravel (ml)*** Light brown (7.5YR6/3) silt and sub-angular gravel (0.2-2.0"); medium dense; non-cohesive; dry.
2				-	100	(0-2) 0.0 (2-4) 0.0		(1.9) ***Silt (ml)*** Light brown (7.5YR6/3) silt, trace sub-rounded gravel (0.2-0.5"); medium dense; cohesive; non-plastic; moist.
3				-				
4								Bottom of Boring at 4 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
5								
6								
7								
8								
9								

Project Name: Former EPT Ithaca	Client:	Location: Ithaca, New York	Boring Log: *AOC35A-S6*
Drilled By: Parratt Wolff, Inc./Matt Carnie	Drill Start Date:	Drill End Date: 4/1/2019	Drill Method: Direct Push
Logged By: Nathaniel Winston	Total Depth (ft): 4	Bore Diameter (in): 2	Ground Surface (ft): Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
								Silt (ml) Dark yellowish brown (10YR4/4) silt, trace rootlets; moist; soft.
1								1
				-				***Ash, Slag, and Sand*** Fill: Dark black ash, sand, and slag; dry; loose.
2				-	75	(1-2) 0.0 (2-4) 0.0		
				-				2.5
3				-				***Sandy Silt with Gravel (ml)*** Yellowish brown (10YR5/4) silt and gravel; dense; dry.
4								Bottom of Boring at 4 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
5								
6								
7								
8								
9								

Project Name: Former EPT Ithaca	Client:	Location: Ithaca, New York	Boring Log: AOC35A-S7
Drilled By: Parratt Wolff, Inc./Matt Carnie	Drill Start Date:	Drill End Date: 4/1/2019	Drill Method: Direct Push
Logged By: Nathaniel Winston	Total Depth (ft): 4	Bore Diameter (in): 2	Ground Surface (ft): Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
1				-				***Silt (ml)*** Dark yellowish brown (10YR4/4) silt, trace rootlets; moist; soft.
								1.25
2				-	75	(1-2) 4.8 (2-4) 0.0		***Ash, Slag, and Sand*** Fill: Dark black ash, sand, and slag; dry; loose.
3				-				
4				-				
5								Bottom of Boring at 4 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
6								
7								
8								
9								

Project Name: Former EPT Ithaca	Client:	Location: Ithaca, New York	Boring Log: *AOC35A-S8*
Drilled By: Parratt Wolff, Inc./Matt Carnie	Drill Start Date:	Drill End Date: 4/2/2019	Drill Method: Direct Push
Logged By: Nathaniel Winston	Total Depth (ft): 8	Bore Diameter (in): 2	Ground Surface (ft): Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
								Silt (ml) Topsoil, brown (7.5YR4/4) silt, trace gravel, trace fine sand, trace rootlets; soft; non-cohesive; moist. (0.3)
1								***Silt with Gravel (ml)*** Light brown (7.5YR6/3) silt and sub-angular gravel (0.2-2.0"); medium dense; non-cohesive; dry. (0.85)
2				- - - -	100	(0-2) 0.0 (2-4) 0.0		***Ash, Slag, and Sand*** Fill: Dark black ash, sand, and slag; dry; loose.
3								(3.5)
4								***Silt (ml)*** Light brown (7.5YR6/3) silt, trace sub-rounded gravel (0.2-0.5""); medium dense; cohesive; non-plastic; dry, becoming soft and moist @6.75' bgs.
5				- - - -	100	(4-6) 0.0 (6-8) 0.0		
6								
7								(7.3)
8								***Silty Gravel (gm)*** Light brown (7.5YR6/3) silt and weathered bedrock fragments, becoming only bedrock fragments at 7.6' bgs; medium dense to dense; moist. Refusal at 8.0' bgs.
9								Bottom of Boring at 8 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.

Project Name: Former EPT Ithaca	Client:	Location: Ithaca, New York	Boring Log: AOC35A-S9
Drilled By: Parratt Wolff, Inc./Matt Carnie	Drill Start Date:	Drill End Date: 4/2/2019	Drill Method: Direct Push
Logged By: Nathaniel Winston	Total Depth (ft): 4	Bore Diameter (in): 2	Ground Surface (ft): Not Determined

Notes:

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	Physical Description
								Ground Surface
								Silt (ml) Topsoil, brown (7.5YR4/4) silt, trace gravel, trace fine sand, trace rootlets; soft; non-cohesive; moist. 0.4
1								***Silt with Gravel (ml)*** Light brown (7.5YR6/3) silt and sub-angular gravel (0.2-2.0"); medium dense; non-cohesive; dry. 1.2
								Ash, Slag, and Sand Fill: Dark black ash, sand, and slag; dry; loose. 1.5
2					100	(0-2) 0.0 (2-4) 0.0		***Silt (ml)*** Light brown (7.5YR6/3) silt, trace sub-rounded gravel (0.2-0.5"); medium dense; cohesive; non-plastic; moist.
3								
4								Bottom of Boring at 4 feet. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
5								
6								
7								
8								
9								

Project Name: Former EPT Ithaca	Client: Emersub15, LLC	Location: Ithaca, New York	Boring Log: BD17-SB-1
Drilled By: Parratt Wolff, Inc./Mark Eaves	Drill Start Date: 8/6/2019	Drill End Date: 8/6/2019	Drill Method: Direct Push
Logged By: Nathaniel Winston	Total Depth: 16	Bore Diameter: 2	Ground Surface: ND

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	
								Ground Surface
								Concrete Concrete (0.8)
2					25	0.4 (3-4)		***Void***
								(3) ***Slag*** Brown (10YR5/3); trace ash; loose; dry; faint odor; slighlty oily; fill.
4								
6					25	0.2 (7-8)		(6) ***Silty Gravel (gm)*** Dark reddish brown (5YR3/3); fine- to coarse-grained gravel; loose to medium dense; dry; no odor; slightly oily; fill.
8								
								(9) ***Silty Gravel (gm)*** Dark gray (7.5YR 4/1; medium dense; moist, becoming wet at 14' bgs; odor; oily; fill.
10					50	0.0 (10-12)		
12								
14					50	0.0 (12-16)		
16								(15.75) ***SILTSTONE*** Dark gray (7.5YR 4/1), trace bluish (5B5/1) staining; wet; weathered bedrock.
18								Bottom of Boring at 16 feetRefusal at 16.0' bgs. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.

Project Name: Former EPT Ithaca	Client: Emersub15, LLC	Location: Ithaca, New York	Boring Log: BD17-SB-2
Drilled By: Parratt Wolff, Inc./Mark Eaves	Drill Start Date: 8/6/2019	Drill End Date: 8/6/2019	Drill Method: Direct Push
Logged By: Nathaniel Winston	Total Depth: 10	Bore Diameter: 2	Ground Surface: ND

Depth (ft)	Elevation (ft)	Type	Lab Sample	Blows	Recovery (%)	PID (PPM)	Graphic Log	
								Ground Surface
								Concrete Concrete (0.8)
								Void
2				- - - -	37.5	0.0 (2.5-4)		(2.5)
								Well Graded Gravel (gw) Dark gray (7.5YR 4/1), trace black staining at 7.25' bgs; trace silt; loose; dry; no odor; fill.
4								
6				- - - -	75	0.0 (5-6) 0.0 (6-8)		
8								
				- - - -	100	0.0 (8-10)		(8.5) ***Silty Gravel (gm)*** Dark gray (7.5YR 4/1); loose; wet; faint odor; slightly oily.
10								Bottom of Boring at 10 feetRefusal at 16.0' bgs. All soil classification based on visual descriptions made during the installation of the boring, unless noted otherwise.
12								
14								
16								
18								

APPENDIX

E SWPPP DOCUMENTATION

EMERSUB 15, LLC

STORMWATER POLLUTION PREVENTION PLAN

FORMER EMERSON POWER TRANSMISSION FACILITY ITHACA, NEW YORK

AUGUST 27, 2018
REVISED: OCTOBER 5, 2018

STORMWATER POLLUTION PREVENTION PLAN

FORMER EMERSON POWER TRANSMISSION FACILITY ITHACA, NEW YORK

EMERSUB 15, LLC

PROJECT NO.: 31400551
DATE: AUGUST 2018
REVISED: OCTOBER 2018

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PROFESSIONAL ENGINEER CERTIFICATION

I, David Alan Rykaczewski, certify that I am currently a New York State Registered Professional Engineer as defined in 6 NYCRR Part 375 and that this Stormwater Pollution Prevention Plan for the former Emerson Power Transmission facility in Ithaca, New York, was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the New York State Standards and Specifications for Erosion and Sediment Control, NYSDEC, November 2016.

STATE OF NEW YORK
DAVID ALAN RYKACZEWSKI
099287
LICENSED PROFESSIONAL ENGINEER

10/5/18
Date

David Alan Rykaczewski, P.E.
Senior Technical Manager
New York State P.E. No. 099287

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Pittsburgh, Pennsylvania 15222

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1 INTRODUCTION

On behalf of Emersub 15, LLC, WSP USA (WSP) has prepared this Stormwater Pollution Prevention Plan (SWPPP) for the former Emerson Power Transmission Facility (EPT) site in Ithaca, New York (See Figure 1). Soil remediation at the EPT site is being performed as an Interim Remedial Measure (IRM) under Consent Order #A7-0125-87-09 that was entered between New York State Department of Environmental Conservation (NYSDEC) and EPT on July 13, 1987. WSP prepared and submitted an IRM Work Plan for the planned activities to NYSDEC on August 8, 2018 and received approval on August 22, 2018.

Figure 1: Site Location Map

This SWPPP has been prepared in accordance with the State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity Permit No. GP-0-15-002 ("General Permit"; January 29, 2015, see Appendix C). This SWPPP was prepared following sound engineering practices and identifies potential sources of pollution, which may reasonably be expected to affect the quality of stormwater discharges associated with the remediation activities. This SWPPP was developed to set operating guidelines during construction activities. A copy of this SWPPP shall be retained at the Site throughout the duration of this project.

The Contractor selected by Emersub and WSP shall meet all conditions of this SWPPP and all conditions of the General Permit. The Contractor shall be responsible for all measures of the SWPPP including being responsible for any subcontractors who may implement the SWPPP.

A copy of a NOI form has been included in Appendix D.

2 PROJECT DESCRIPTION

The former EPT site is located at 620 South Aurora Street in Ithaca, New York and encompasses approximately 96 acres (Ac). The facility, which includes several buildings, was constructed on partially excavated and backfilled terraces along a bedrock slope above the Cayuga Valley. The site is partially located in the property parcel 500700-106.-1-8 and 503089-49.-3-3. The tax map numbers for the parcels are 106 of City of Ithaca and 40 of Town of Ithaca.

The buildings are situated at an elevation of approximately 600 feet above mean sea level (amsl). The main buildings are flanked by a number of smaller buildings to the southwest and a series of access roads and parking lots that terrace the hillside above main buildings to the east. Undeveloped woodland borders the Site to the southwest along the steep embankments of South Hill. West Spencer Street, which runs parallel to the Site, marks the western limit of the wooded area and the base of the hill. Beyond Spencer Street to the west and in areas along the steep northern approach to South Hill and the Site are residential areas. Sixmile Creek, farther to the west, flows north along the base of South Hill, emptying into Cayuga Lake approximately 2 miles northwest of the Site.

The primary objectives of this project are to remediate existing soil at sixteen (16) select locations to facilitate planned future use of the property. The remediation action involves preparatory activities, excavation, soil segregation, transportation and disposal, confirmation sampling, and site restoration. Soil excavation will be required in the following areas of concern (AOC) of the site (see Figure 2):

AOC 1	AOC 34
AOC 26	AOC 35A
AOC 27	AOC 35C
AOC 28	AOC 35D
AOC 29	AOC 35G
AOC 30	AOC 35H
AOC 31	AOC 35K
AOC 32	AOC 35L

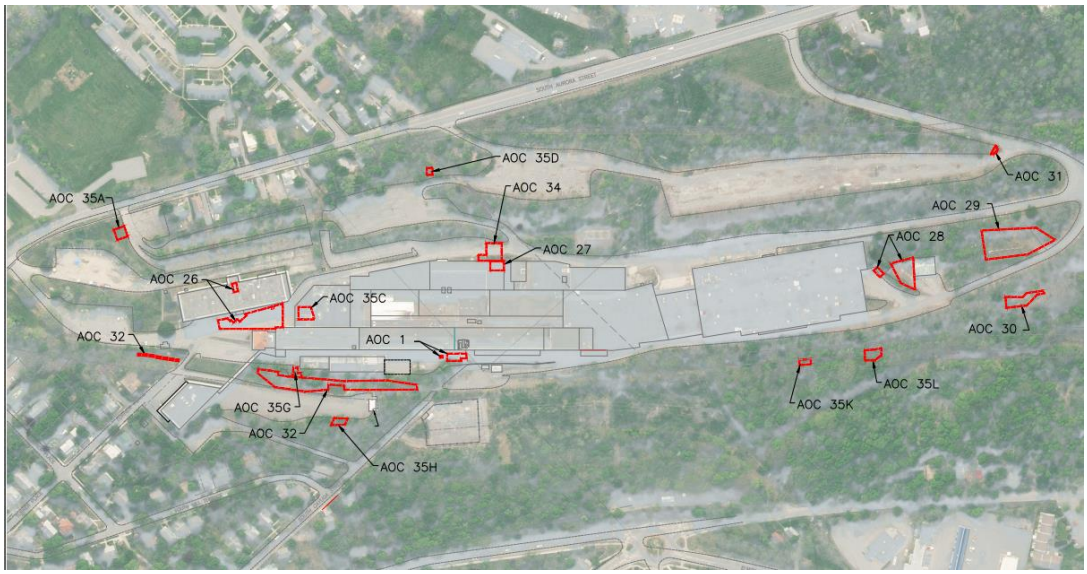


Figure 2: Site Layout and Areas of Concern Map

The combined total limits of disturbance for all associated construction activities is 2.6 Ac with approximately 1.2 Ac of actual excavation area.

Based on the limits of excavation and the planned depths of excavation in each of the AOCs, approximately 4,550 cubic yards of soil will be excavated. Following Site preparation and pavement removal, where necessary, soil will be excavated and transferred to stockpiles for subsequent waste characterization and offsite disposal. After the excavation and sampling activities are complete, the excavated areas will be backfilled with clean fill and topsoil from offsite sources. Surfaces of backfilled excavation areas will be restored in-kind to pre-construction conditions.

3 SOILS, TOPOGRAPHY, SURFACE COVER, AND CURRENT DRAINAGE

Bedrock is classified as the Ithaca Siltstone which is typically well-cemented with generally non-fossiliferous beds ranging in thickness from 0.1 inch to 2.5 feet in thickness. Overburden on the undeveloped hill-slopes in the eastern portion of the Site is comprised of a thin, discontinuous veneer of dark gray bedrock-derived gravelly silt. The shallowest depths to bedrock (i.e., less than 1 foot below ground surface [bgs]) occur along the undeveloped hillsides and beneath buildings and roadways located on excavated bedrock terraces. The overburden is thickest to the west of the main building in the area of the retaining wall (greater than 25 feet bgs) and is comprised primarily of man-made fill, which consists of silty or clayey sand and gravel containing varying amounts of cinder fragments and construction debris. In other areas of the Site, coal ash, slag, and brick fragments are also present.

According to the United States Department of Agriculture (USDA) National Resources Conservation Service (NRCS), soils at the site are composed of hydrologic soil group B (6.1 %), group C (29.3 %), group D (33.6 %), and unsurveyed (31.0 %). Soil borings have been installed at selected locations of the site. In the western areas of the Site, where the overburden is thickest, saturated conditions occur between approximately 10 and 20 feet bgs and the top of bedrock. The saturated overburden, where present, has been labeled the A-hydrogeologic zone. The underlying B-hydrogeologic zone is characterized as very highly- to highly-fractured weathered bedrock which is typically saturated. On the Site, the B zone extends to a depth of approximately 8 to 10 feet below the top of bedrock in areas with minimal overburden (i.e., less than 10 feet). The underlying transitional zone (C zone) extends from the base of the B zone to a maximum depth of approximately 55 feet bgs, and the D-zone extends from the bottom of the C zone to a minimum depth of 145 feet bgs.

Groundwater flow direction within the overburden and the B zone generally mimics surface topography, which slopes to the northwest. Groundwater flow within the C and D zones is predominantly through vertical and horizontal joint sets and horizontal bedding plane fractures within the upper sections of bedrock.

The Site is in FEMA Zone C, an area of minimal flooding. Two drainage area study Point of Interests have been identified for this project site. POI-1 is located at the northwest side of the site just downslope from the wooden sluice. A series of catch basins are present along the buildings on the northern portion of the site. These catch basins are piped into a storm sewer system that discharges into the discontinuous drainage ditches that run along the northwestern property line. Roof drains either discharge into the stormwater sewer system or discharge via an open pipe into the drainage ditches. The northern ditches have a small but continuous flow that discharges via a wooden sluice into the drainage that runs along South Cayuga Street into Sixmile Creek.

POI-2 is located at the west property line near Building 34 just downslope from an abandoned rail spur culvert crossing. The runoff in this drainage area drains mostly westward via open ditches and reaches the western ditches along the property line. Rooftop runoff drains to either existing drainage ditches or to existing storm sewer which outfalls to these drainage ditches further downslope. Ultimately, all runoff drains to westward to the existing culvert crossing and down an existing drainage ditch offsite discharging to Sixmile Creek.

Both study points outfall runoffs will reach Sixmile Creek which flows into Cayuga Inlet, and flows into Cayuga Lake approximately 2 miles from the Site (see Sheet 2 - Drainage Area and Soils Map in Appendix A).

The existing drainage area to POI-1 is 18.57 Ac, of which 15.12 Ac is impervious area (I% = 81%). The existing drainage area to POI-2 is 29.30 Ac, of which 14.90 Ac is impervious area (I%= 51%). The IRM work is not expected to alter any existing surface condition or drainage patterns at the site. Hence, the proposed drainage area and impervious area for POI-1 and POI-2 are the same as existing condition.

4 EXISTING AND PROPOSED CONDITIONS ANALYSIS

4.1 COMPARISON OF EXISTING STORMWATER RUNOFF WITH PROPOSED CONDITIONS

Since this remedial work onsite is not expected to alter surface flows or storm drainage at the Site, the proposed condition for POI-1 and POI-2 are the same as existing condition (see Sheet 2 - Drainage Area and Soils Map in Appendix A). The following table is the results of hydrologic analysis using the NRCS Win-TR55 software comparing existing and proposed site conditions. (See Appendix B for calculations).

Table 1:Comparison of existing conditions with proposed conditions

	Existing Condition		Proposed Condition	
	POI-1	POI-2	POI-1	POI-2
Total Area (Ac)	18.57	29.30	18.57	29.30
Impervious Area (Ac)	15.12	14.90	15.12	14.90
I%	81%	51%	81%	51%
RCN	94	76	94	76
Tc (hrs)	0.63	0.57	0.63	0.57
1-yr Q (cfs)	19.94	3.95	19.94	3.95
10-yr Q (cfs)	38.37	14.89	38.37	14.89
100-yr Q (cfs)	70.31	39.05	70.31	39.05

I% - Impervious percentage, RCN – runoff curve number, Tc – time of concentration, Q - runoff

Based on the above analysis there is no anticipated increase in storm runoff as a result of the proposed remediation construction activities.

4.2 IMPACT TO RECEIVING WATER BODIES

The only receiving water body is an unnamed tributary to Sixmile Creek which is identified as Classification C. Table 1 shows the runoff flow for both the existing and proposed conditions remain the same. There is no impact to the receiving water bodies.

4.3 IMPACT TO WETLANDS

Based on National Wetlands Inventory GIS information, there is a classified wetland along an interior access road at the southern edge of the proposed work site (see Sheet 2 - Drainage Area and Soils Map in Appendix A). The wetland extends along the south side beginning at the South Aurora Street entrance and following westward along the roadside ditch until it diverges into the wooded area and goes off site down the hillside. The Wetland is identified as R4SBC, which is a riverine intermittent channel which is seasonally flooded. The remediation work is not anticipated to impact the wetland area.

4.4 IMPACT TO ADJACENT LANDOWNERS

As shown in Table 1, the discharge for existing and proposed conditions remain the same for POI-1 and POI-2 resulting in no increased runoff. All construction activities will be contained on the Site. There are no anticipated impacts to adjacent landowners.

5 CONTROLS AND BEST MANAGEMENT PRACTICES

Erosion and sediment controls specified in this plan will be installed before any intrusive soil disturbance activity commences. Additional controls and/or best management practices will be implemented as necessary based on site conditions to limit the amount of earth erosion and sedimentation in surface water runoff. The erosion and sediment controls will be maintained throughout the duration of the work and will not be removed until the disturbed areas have been backfilled and permanently stabilized. The Contractor selected by Emersub 15 and WSP shall be required to construct and maintain the controls in accordance with this SWPPP and the NYSDEC-approved IRM Work Plan.

5.1 HAUL ROUTES

Most access roads through the Site are not suitable for two-way traffic. As such, a haul route through the site has been developed to minimize traffic flow issues during excavation and soil transfer to the staging areas and during soil loading from the staging areas for offsite disposal. When leaving the site, loaded trucks shall follow designated truck routes through the city and town of Ithaca. Refer to Sheet 9 – Haul Route and Stockpile/Staging Areas in Appendix A for route layout within site.

5.2 STABILIZED CONTRUCTION ACCESS

To reduce the amount of mud, dirt, and rocks transported onto roads by motor vehicles, equipment, and runoff, one stabilized construction access will be established at the edge of pavement for all off-pavement construction vehicle access to AOC work sites. Stabilized construction Access pads will be needed at AOCs 29, 30 and 32. Vehicle tires that have contacted contaminated materials will be decontaminated before leaving the site. Refer to Sheet 9 – Haul Route and Stockpile/Staging Areas in Appendix A for stabilized construction access locations.

5.3 CLEARING AND TREE PROTECTION

Work in certain AOC areas will require removal of small trees and brush before excavation work commences. Clearing will be performed only to the extent necessary to permit equipment access for remediation activities. Existing vegetation in non-remediation areas will be protected. Attempts will be made to save trees with trunks larger than 4 inches in diameter. Smaller trees and trees that cannot be saved shall be disposed of offsite or chipped and used for mulch during Site restoration activities. Brush and root systems shall be disposed with the excavated soil. Clearing and tree protection activities anticipated in AOCs 28, 29, 30, 32, 35D, 35G, 35H, 35K, and 35L.

5.4 SEEDING AND MULCHING

Seeding and mulching will be used for permanent stabilization for all non-paved areas following completion of remediation activities. These areas will need to be seed and mulch stabilized within 14 days of completion of work. Prior to seeding topsoil will be spread to a depth of no less than 4 inches, then seed applied at the manufactures recommend rate, followed by a protective mulch layer applied to no less than 2 inches on top of seeded area. Seed and Mulch will be used for AOCs 28, 29, 30, 32, 35A, 35D, 35G, 35H, 35K, and 35L.

5.5 DUST CONTROL

The excavation surfaces will be maintained damp and additional dust suppressant will be applied, as needed, to prevent or reduce dust emissions resulting from construction activities. Dust suppressant will be applied when exposed ground surfaces are dry and wind or vehicular traffic result in visible dust generation and when airborne dust concentrations exceed the levels specified in the Community Air Monitoring Plan. Dust suppressant applications will consist of applying potable water via a mobile broadcast applicator in a controlled manner. Water for dust suppression will be available from various locations on Site.

5.6 TEMPORARY STOCKPILE AND STAGING AREA

Temporary stockpile and staging will be conducted in the designated locations shown on Sheet 9 – Haul Route and Stockpile/Staging Areas in Appendix A. The excavated material stockpile areas will be lined with 10-mil (minimum) polyethylene sheeting. The sides will be bermed to prevent stormwater runon or runoff and the stockpiles will be covered with polyethylene sheeting during precipitation events and at the end of each work day. Polyethylene covers shall be draped over the berms to prevent precipitation accumulation within the staging areas. A sump will be installed at the low point for water to collect. Any water that contacts potentially contaminated materials will be collected, stored, treated or disposed in accordance with the IRM Work Plan. Three potential stockpile staging areas have been designated within the existing paved area of the Site.

5.7 SAME DAY STABILIZATION

Same day stabilization will be used for the smaller remediation areas where work can be completed in 1-2 days. All disturbed areas shall be stabilized at the end of each working day. Same day stabilization will be done by securely covering all disturbed areas. Steel plates are to be used in impervious work areas and erosion control matting is to be used in earth graded areas. Same day stabilization will be performed at AOCs 28, 31, 32 (phase 1), 35A, 35D, 35H, 35K, and 35L.

5.8 DAILY SWEEPING AND DEWATERING

Sweeping of all paved areas around active remediation work will be performed daily. This will include loading and unloading areas for excavated material. Daily sweeping of these areas will remove any displaced material during transport of excavated material preventing it from becoming sediment laden storm runoff. Sweeping will be performed at all AOCs.

5.9 COMPOST FILTER SOCK

Compost filter socks will be used to intercept and filter sheet flow runoff from small disturbed areas. These filtering practices reduce runoff velocity and promote deposition of transported sediment. All accumulated sediment will be taken to the same AOC stockpile area to be disposed of properly. Compost filter sock shall be maintained to prevent sediment bypass and shall be removed and replaced as needed during construction activities. Compost filter sock will be used at AOC 26, 29, 30, 32, and 35G.

5.10 STORM DRAIN INLET PROTECTION

Storm drain inlet protection shall be installed around inlets anticipated to receive potential sediment-laden stormwater runoff. The purpose is to prevent sediment-laden water from entering inlets to a storm drain system.

The inlet protection shall be inspected after every storm event. Sediment should be removed and disposed with the stockpiled soil from that area. Inlet protection will be used at AOCs 1, 26, 28, and 29.

5.11 WATER MANAGEMENT AND FLOW DIVERSION PRACTICES

Existing drainage ditches flow through portions of AOCs 32, 35K and 35L. The drainage ditches are intermittent; therefore, excavation activities in these AOCs will be sequenced to be completed during low-flow or dry conditions to the extent practical. If base flows are present or if precipitation is forecasted before construction activities can be completed, the ditch flows shall be bypassed around the work areas to prevent mixing of clean water runoff with the disturbed work area. Pumparound Practice (refer to Pumparound Detail on Sheet 8 - Details in Appendix A) with dewatering pump and sandbags will be constructed upstream of the active work areas. Water from the upstream side will be pumped around the work area and transferred to the downgradient side by discharging onto a stable velocity dissipater made of riprap or sandbags.

Any water that has the potential of contacting affected materials shall be collected and managed in accordance with the NYSDEC-approved IRM Work Plan.

5.12 DIVERSION BERMS

Diversion berms will be used upslope of active excavation areas where needed to divert clean water away from work areas. Two types of diversions are specified for this project - earthen berms and sandbag diversions. Earthen berms at AOC 29 and 32 and sandbags at AOC 28 and 34 are shown on Sheets 3 through 7 in Appendix A; however, the two types may be used interchangeably based on site conditions. Clean water will either be diverted around and discharged non-erosively using rock outlet protection or to a pump around practice. Earthen berms or sandbag diversions will also be used to encircle the soil staging areas to prevent runon or runoff to or from the soil stockpiles.

6 INSPECTIONS, MAINTENANCE, AND REPORTS

Once soil disturbance activities begin, inspections will be conducted every 7 calendar days and within 24 hours at the end of a storm event of 0.5 inches or more of precipitation over a 24-hour period. A calibrated rain gauge will be installed at the site and readings from the gauge will be logged daily when personnel are onsite. The rain gauge log will be maintained in Appendix E. Inspections will be performed by a WSP qualified inspector under the direction of a licensed professional engineer.

Inspections will include all areas of the site disturbed by the remediation activates and areas used for storage of materials or wastes that are exposed to precipitation. Inspectors will look for evidence of, or the potential for, pollutants entering the storm water conveyance system. All erosion and sedimentation control measures identified in this SWPPP, including filter sock, earthen berms, sand bags, rock ditch and outlet protection, stabilized construction access, and inlet protections will be observed to ensure proper operation. Discharge locations will be inspected to ascertain the efficacy of the erosion control measures.

The inspection form included in Appendix F will be completed during each inspection, be archived chronologically and stored on site. This form includes inspection and maintenance details specific to each erosion and sedimentation control. After each inspection, WSP will report to its contractors any required maintenance or corrective action and document that the required action was completed. The inspector will sign each report, and the report will be maintained as part of this SWPPP for at least three years from the date the permit coverage expires. Copies of the inspection reports will be provided to state and local agencies upon request.

The contractor is required to install and maintain all soil erosion and sedimentation controls throughout the duration of the project and until final stabilization of the site. Maintenance shall include, but not be limited to, repair or replacement of any existing controls, removal of sediment and any other measures deemed necessary, which would reduce soil erosion and siltation runoff. Refer to Section 5 and the Plans in Appendix A for descriptions of individual controls.

7 CONTROLS FOR POLLUTION AND CONSTRUCTION WASTE

7.1 CONSTRUCTION MATERIAL HANDLING AND STORAGE

As the major components of the scope are demolition of asphalt and soil excavation, limited construction materials are required for the project. Construction tools and small equipment will be stored in a closed trailer staged on pavement inside the fenced area of the Site.

7.2 WASTE MATERIAL HANDLING, STORAGE, AND LOADING

Based on results obtained during the Site assessment activities, approximately 4,550 cubic yards of soil and paving materials will be removed. Except under limited circumstances (e.g., AOCs that are fully delineated with no proposed confirmation samples), excavated soil shall be staged onsite pending characterization and offsite disposal.

Field screening will be performed during the excavation, and post-excavation confirmation sample will be collected and analyzed after the excavation. All excavated soils and sediments will be properly characterized and profiled for landfill acceptance; transported via truck with proper labeling, placarding, and manifesting; and disposed of offsite at facilities permitted to accept the waste. To the extent practical, trucks utilized for offsite disposal will be loaded on paved surfaces. If any truck is not loaded on a paved surface, the tires will be decontaminated, as necessary, to prevent tracking materials onto public roads.

Trucks waiting to be loaded will form a queue in the paved parking area near the soil stockpile area. The Contractor will be responsible for directing traffic, inspecting truck tires, and managing transportation manifests.

7.3 EQUIPMENT DECONTAMINATION

An equipment decontamination pad will be constructed on a paved surface near the soil staging areas. Decontamination rinsate will be pumped from a collection point or containment sump and stored in a tank for subsequent management as described in the IRM Work Plan.

7.4 SPILL PREVENTION AND RESPONSE

If a spill of a hazardous substance or petroleum product occurs anywhere on the Site, the spilled material can potentially run off the property and enter the storm water drainage system, polluting storm water runoff. In the event that spill prevention measures fail, personnel will immediately respond to the spill to prevent contamination of stormwater. Site workers will comply with the following spill containment, cleanup, and disposal procedures:

- Approach the incident area from upwind to a point where the spilled material can be identified.

- Shut down vehicles in the area.
- Determine the source, type, and quantify of material spilled.
- After identifying and accessing the hazard, isolate and evacuate the area based on assessment of the quantity and threat to life.

For large spills of an incidental nature:

- Evacuate the area within 150 feet.
- Immediately notify the local fire and police departments.
- Provide the appropriate emergency personnel with the facility name, person to contact, phone number, type of material spilled, estimated quantity spilled, containment actions taken, potential for offsite contamination, and potential for fire or explosion.

For smalls spills:

- Move personnel out of the incident area and keep others away.
- Attempt to contain spilled material and prevent discharge to storm sewer by covering storm drains will spill blankets, or protecting drains with absorbent pigs.
- Notify the construction project manager if a release to storm drains or surface water occurs.
- Arrange for the emergency response personnel to perform containment and cleanup.
- Dike clay absorbent to prevent runoff and spread absorbent over the spilled material to soak it up.
- Retain contaminated material in covered 55-gallon drums that area appropriate labeled and place in a waste storage area until characterization and disposal.

Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR 117 or 40 CFR Part 302, occurs during a 24-hours period; the NYSDEC Emergency Spill Response and the National Response Center will be notified in accordance with the requirements of 40 CFR Part 110, 40 CFR Part 117 and 40 CFR Part 302 as soon as site personnel have knowledge of the discharge.

Appendix G includes a blank Spill Reporting Form. This form will be completed for all spills, and completed forms will be added to Appendix G with 14 days of knowledge of the release. The SWPPP will then be reviewed and modified as necessary to identify measures to prevent reoccurrence of such releases.

The minimum emergency spill equipment that will be maintained at the site will include clay absorbent, pigs, spill blankets, a spark-resistant safety shove, a 55-gallon steel drum with a bolt-on lid, barricade tape, unlined nitrate gloves, unlined nitrile gloves, goggles, Tyvek all-purpose coveralls, disposable cover boots, and signs for posting warnings such as “Danger, No Smoking.”

8 IMPLEMENTATION RESPONSIBLITIES

Emersub 15, LLC is the primary owner/operator as defined in the General Permit. WSP has prepared the SWPPP and will perform inspections described herein assure compliance with the SWPPP during implementation of the IRM Work Plan. The selected IRM contractor, Ontario Specialty Contracting, Inc. (OSC) of Buffalo, New York will be responsible for installation and maintenance of the erosion and sedimentation controls described in this SWPPP. Contact information for key personnel is listed below.

Owner Contact:

Stephen Clarke
Emersub 15, LLC
8000 West Florissant Avenue
St. Louis, MO 63126

WSP Contacts:

Project Manager and Registered New York Professional Engineer (No. 099287)

David Rykaczewski, PE
WSP USA
11 Stanwix Street, Suite 950
Pittsburgh, PA 15222
Phone: (412) 281-9900

Qualified Inspector

Nate Winston
WSP USA
Phone: (315) 420-9973

IRM Contractor Contacts:

Ontario Specialty Contracting, Inc.
333 Ganson Street
Buffalo, NY 14203
Phone: (716) 856-3333

Project Manager
Alen Trpevski
Phone: (716) 818-3390

Site Superintendent
Matt Reardon
Phone: (716) 570-0717

The Owner/Operator Certification Form, Contractor Certification Form, and Qualified Inspector training records are provided in Appendix H.

9 RECORDS MANAGEMENT

9.1 RECORD KEEPING

Recordkeeping and internal reporting represent good operating practice because they can increase the efficiency of the construction activates and the effectiveness of BMPs. A good recordkeeping system helps to minimize incident recurrence, correctly respond with appropriate cleanup activities, and comply with legal requirements.

In accordance with Part VI.A of the construction general permit, the following records will be maintained as part of the SWPPP:

- Dates when major grading activities occur.
- Dates when construction activities temporarily or permanently cease on a portion of the site. Temporarily ceasing construction is defined in the construction general permit as ceasing construction on a portion of the site for more than 14 days. A portion of the site means, but is not limited to, portions of the site with dedicated controls.
- Dates when stabilization measures are limited.
- The above information will be recorded on the inspection reports.

A copy of the SWPPP will be retained at the site from the date of commencing the soil disturbance activities to the date of final stabilization. The copy of the SWPPP and inspection reports will be maintained onsite and will be made available to NYSDEC staff for review and copying. Copies of the SWPPP and all documentation required by the construction general permit, including records of all data used to complete the NOI to be covered by this permit, will be retained for at least three years from the date that the site is finally stabilized.

9.2 NOTICE OF TERMINATION

Within 14 days of achieving final stabilization at the site, WSP will submit a Notice of Termination (NOT) to the NYSDEC, utilizing the NOT form in Appendix I. The NOT will include a certification signed as set forth in the construction general permit.

9.3 REVISIONS TO THE SWPPP

The SWPPP will be revised whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to surface waters of the State or MS4, including the addition of or change in location of stormwater discharge points, and which has not otherwise been addressed in the plan. WSP shall amend the plan if it proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified, or in otherwise achieving the general objectives of controlling pollutants in stormwater discharge associated with construction activity. In addition, the plan shall be amended to identify any new contractor and/or subcontractor that will implement a measure of the SWPPP. Amendments to the shall be prepared, signed, dated and kept as attachment to the original plan in Appendix J.

APPENDIX

A

SWPPP PLAN SET

EROSION AND SEDIMENT CONTROL - GENERAL NOTES

CONSTRUCTION SEQUENCING NOTES:

1. PRIOR TO COMMENCING CLEARING, GRUBBING AND/OR EARTHWORK ACTIVITIES AT THE SITE, CONTRACTOR SHALL FLAG THE WORK LIMITS AND SHALL INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (I.E. SILT FENCES, FILTER SOCKS, STABILIZED CONSTRUCTION ACCESS, INLET AND OUTLET PROTECTION ETC.) INDICATED ON THE PROJECT DRAWINGS. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED. AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR TRIBUTARY AREAS.
2. WATER PUMP AROUND PRACTICES SHALL BE INSTALLED BEFORE THE DISTURBANCE OF DITCH AREA.
3. THE CONTRACTOR SHALL COMMENCE SITE CONSTRUCTION ACTIVITIES INCLUDING CLEARING, GRUBBING, EXCAVATING THE PROPOSED AREA OF DISTURBANCE AS REQUIRED.
4. FINISH BACKFILLING, CAPPING, SEEDING, MULCHING AND PAVEMENT RESTORATION.
5. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND IMMEDIATELY ESTABLISH PERMANENT VEGETATION ON THE AREAS DISTURBED DURING THEIR REMOVAL.

EROSION AND SEDIMENT CONTROL MEASURES:

GENERAL MEASURES:

1. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
2. AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
3. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", 2016.
2. SAME DAY STABILIZATION IS TO BE PERFORMED AT THE END OF EACH WORKING DAY WHERE INDICATED ON THE PLAN AND/OR AGREED UPON BY THE CONTRACTOR/INSPECTOR TO FACILITATE CONSTRUCTION. STEEL PLATES CAN BE USED, WHERE APPROPRIATE, IN IMPERVIOUS WORK AREAS AND EROSION CONTROL MATTING IS TO BE USED IN EARTH GRADED AREAS.
3. NO DISTURBANCE SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS RUNOFF IS DIRECTED TO A SEDIMENT CONTROL MEASURE.
4. EXCAVATED SOILS SHALL BE STOCKPILED, WASTE CHARACTERIZED, AND DISPOSED OF OFFSITE. SOIL FROM EACH AOC WILL BE STOCKPILED SEPARATELY.
5. EXCAVATED AREAS SHALL BE BACKFILLED WITH CLEAN SOIL TO MATCH THE ORIGINAL GRADES. DISTURBED AREAS SHALL BE FERTILIZED, SEEDED, AND MULCHED.
6. PAVEMENTS SHALL BE RESTORED IN KIND UNLESS OTHERWISE SPECIFIED.
7. APPLY SURFACE STABILIZATION AND RESTORATION MEASURES. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS DELAYED, SUSPENDED, OR INCOMPLETE AND WILL NOT BE REDISTURBED FOR 21 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS COMPLETE AND WILL NOT BE REDISTURBED SHALL BE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. SEEDING FOR PERMANENT VEGETATIVE COVER SHALL BE WITHIN THE SEASONAL LIMITATIONS. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
8. SEEDED AREAS TO BE MULCHED WITH STRAW OR HAY. MULCH SOIL STABILIZATION MATTING CAN ALSO BE USED.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
10. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. WATER IS AVAILABLE FROM SEVERAL HYDRANTS AND SHALL BE USED FOR DUST SUPPERSSION.
11. WATER REMOVED FROM EXCAVATION SHALL BE COLLECTED AND PUMPED TO A FILTERBAG DEVICE FOR DEWATERING.
12. SAND BAG DIVERSIONS CAN BE USED IN PLACE OF EARTH BERM DIVERSIONS BY CONTRACTOR.
13. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:

INSPECTION FREQUENCY:

RECOMMEND DAILY INSPECTIONS OF ALL INSTALLED EROSION AND SEDIMENT CONTROL MEASURES. AT A MINIMUM INSPECTIONS NEED TO OCCUR WITHIN EVERY SEVEN DAYS AND AFTER EVERY RAINFALL EVENT THAT GENERATES RUNOFF.

PERMANENT AND TEMPORARY VEGETATION:

INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.

STABILIZED CONSTRUCTION ACCESS:

INSPECT THE ENTRANCE PAD. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. RESHAPE PAD AS NEEDED. FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.

SILT FENCE:

INSPECT FOR DAMAGE. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.

COMPOST FILTER SOCK:

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED OF IN ACCORDANCE WITH THE PLAN. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED IN THE MANNER REQUIRED BY THE MANUFACTURER OR REPLACED WITHIN 24 HOURS OF INSPECTION NOTIFICATION.

SOIL STOCKPILE:

INSPECT SEDIMENT CONTROL BARRIER AND POLYETHYLENE LINER FOR DAMAGE. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

DUST CONTROL:

SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

STORM DRAIN INLET PROTECTION:

INSPECT ALL STORM DRAIN INLET PROTECTION DEVICES FOR DAMAGE. MAKE REPAIRS AS NEEDED, REMOVE SEDIMENT FROM THE POOL AREA AS NECESSARY.

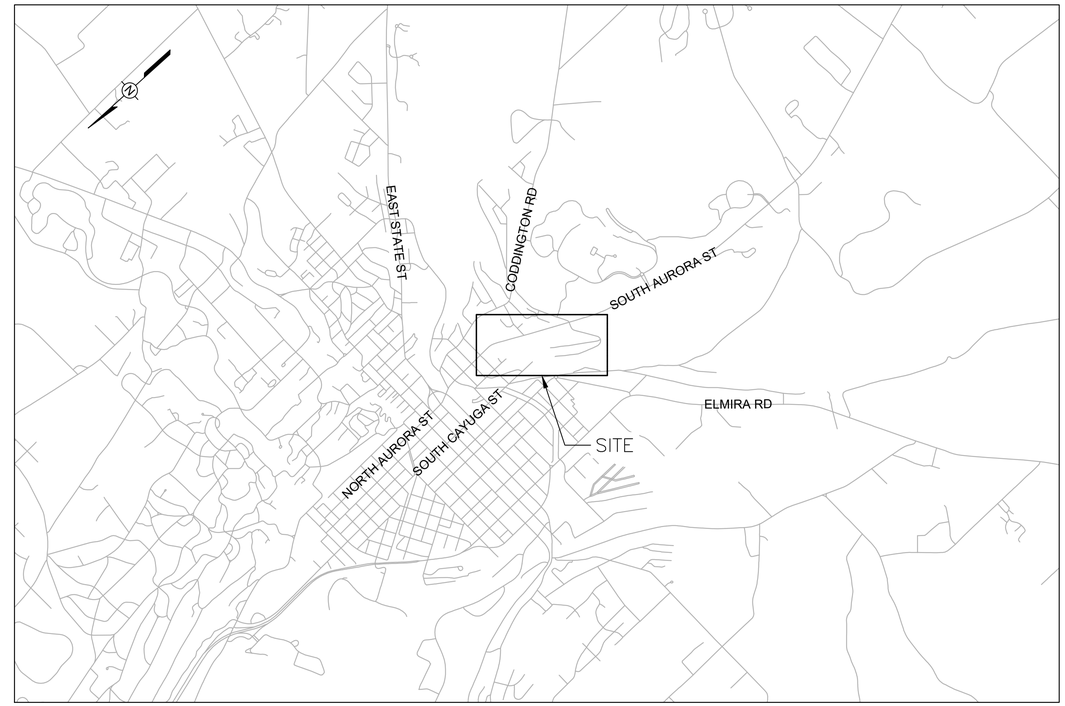
DAILY SWEEPING AND DEWATERING:

INSPECT PAVED AREA AROUND THE PERIMETER OF THE CONSTRUCTION SITE DAILY. REMOVE ACCUMULATED SEDIMENT WITH SWEEPING, CHECK INLET PROTECTION THAT MAY HAVE BEEN DISPLACED DURING SWEEPING. USE FILTER BAG FOR DEWATERING PURPOSES.

SITE INFORMATION

* (NOT FOR BIDDING PURPOSES)

TOTAL AREA OF SITE	96	ACRES
AREA DISTURBED	2.6	ACRES
AREA TO BE ROOFED OR PAVED	0	ACRES
TOTAL CUT	4,550	CU. YDS.
TOTAL FILL	4,550	CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION (IF KNOWN)	TO BE DETERMINED	



VICINITY MAP

0 2,000 4,000
SCALE, FEET

INDEX OF DRAWINGS

SHEET NO.	DRAWING TITLE
1	GENERAL NOTES AND VICINITY MAP
2	DRAINAGE AREA AND SOILS MAP
3	AOCs 26 AND 35 PLAN
4	AOCs 1, 27, 35A, AND 35D PLAN
5	AOCs 32, 35G, AND 35H PLAN
6	AOCs 28, 35E, AND 35K PLAN
7	AOCs 29, 30, AND 31 PLAN
8	DETAILS
9	HAUL ROUTE AND STOCKPILE / STAGING AREAS

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GENERAL NOTES AND VICINITY MAP

STORMWATER POLLUTION PREVENTION PLAN
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON – ST. LOUIS, MISSOURI

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SHEET 1

Drawing Number
314P0551–D60

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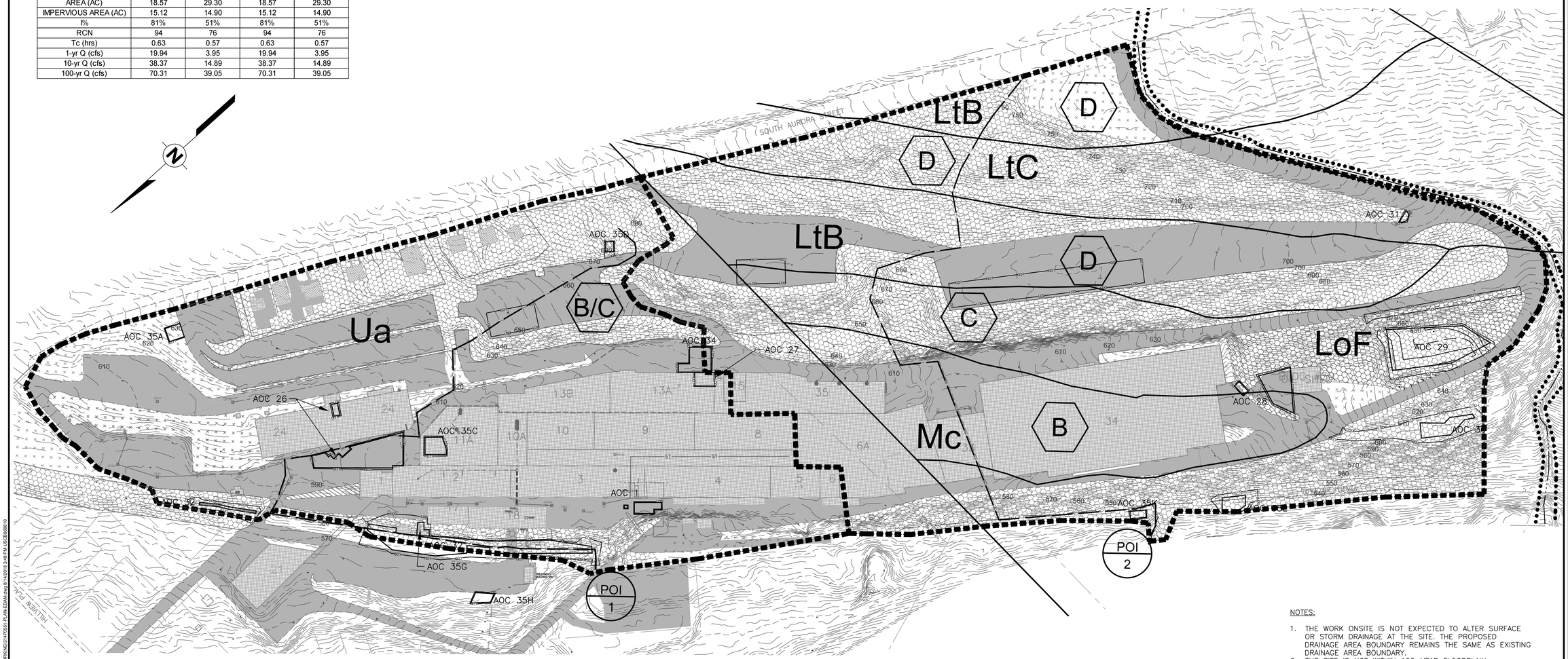
LEGEND

- LtB — SOIL BOUNDARY
- B — HYDRAULIC SOIL GROUP
- DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION FLOW PATH
- POI 2 — POINT OF INTEREST
- WETLAND BOUNDARY (NWI)
- EXISTING DRAINAGE DITCH
- EXISTING IMPERVIOUS/PAVED AREA
- EXISTING BUILDINGS
- EXISTING GRASS AREA
- EXISTING WOODS
- LOD — LIMIT OF DISTURBANCE
- AREA OF CONCERN
- EXISTING CONTOURS
- 100 — PROPOSED CONTOURS
- PROPERTY BOUNDARY

HYDROLOGIC SOIL GROUP

MAP UNIT SYMBOL	MAP UNIT NAME	RATING
LoF	Lordstown channery silt loam, 35 to 70 percent slopes, rocky	C
LtB	Lordstown, Tuller, and Ovid soils, shallow and very shallow, 0 to 15 percent slopes	D
LtC	Lordstown, Tuller, and Ovid soils, shallow and very shallow, 15 to 35 percent slopes	D
Mc	Made land	B
Ua	Unsurveyed area	

	EXISTING CONDITION		PROPOSED CONDITION	
	POI-1	POI-2	POI-1	POI-2
AREA (AC)	18.57	29.30	18.57	29.30
IMPERVIOUS AREA (AC)	15.12	14.90	15.12	14.90
I%	81%	51%	81%	51%
RCN	94	76	94	76
Tc (hrs)	0.63	0.57	0.63	0.57
1-yr Q (cfs)	19.94	3.95	19.94	3.95
10-yr Q (cfs)	38.37	14.89	38.37	14.89
100-yr Q (cfs)	70.31	39.05	70.31	39.05



NOTES:

1. THE WORK ONSITE IS NOT EXPECTED TO ALTER SURFACE OR STORM DRAINAGE AT THE SITE. THE PROPOSED DRAINAGE AREA BOUNDARY REMAINS THE SAME AS EXISTING DRAINAGE AREA BOUNDARY.
2. THE SITE IS NOT WITHIN 100-YEAR FLOODPLAIN.
3. WETLAND BOUNDARIES OBTAINED FROM NATIONAL WETLAND INVENTORY CLASSIFIED AS RIVERINE INTERMITTENT STREAMBED.

100 0 100 200
SCALE, FEET

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DRAINAGE AREA AND SOILS MAP

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PREPARED FOR
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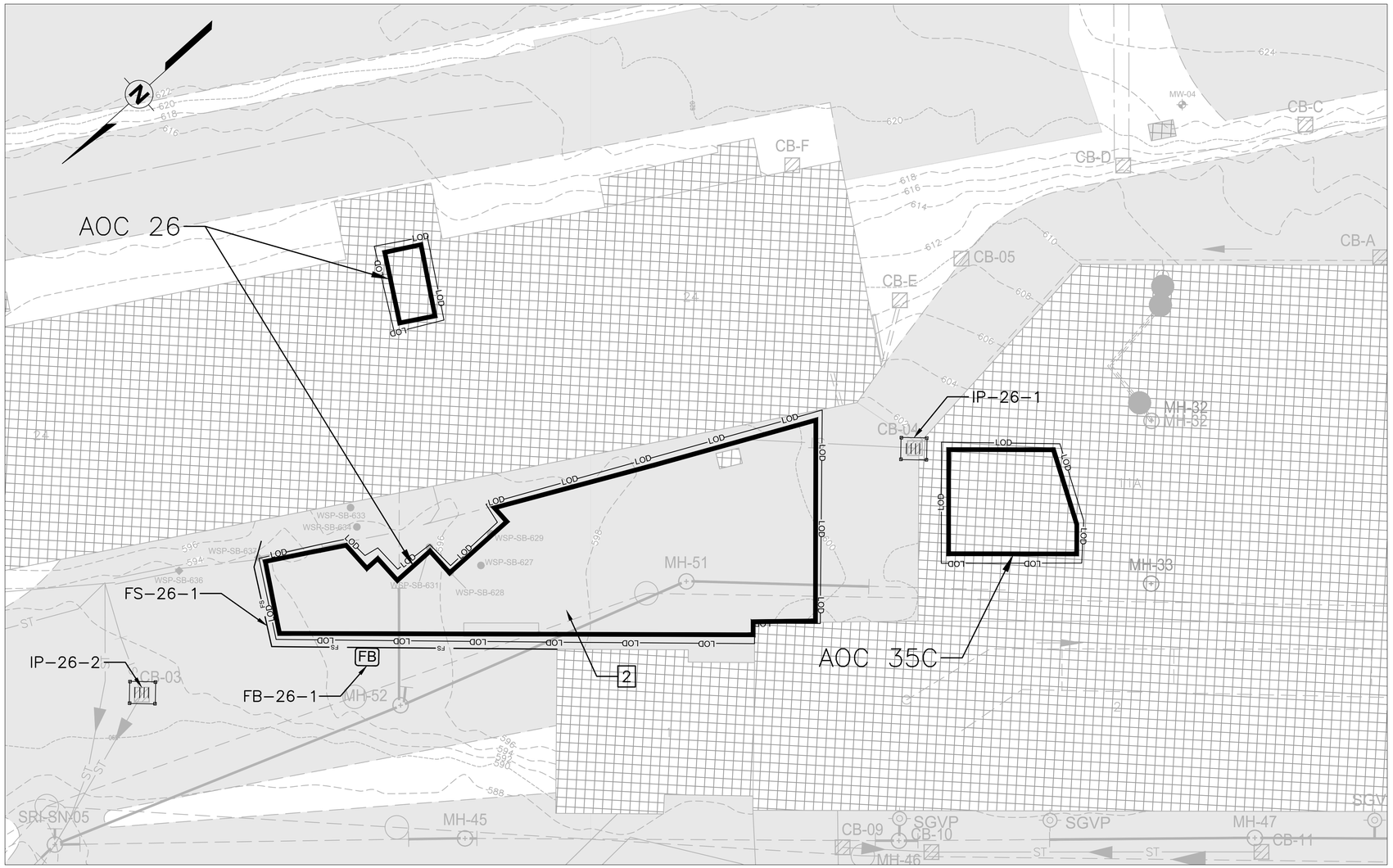
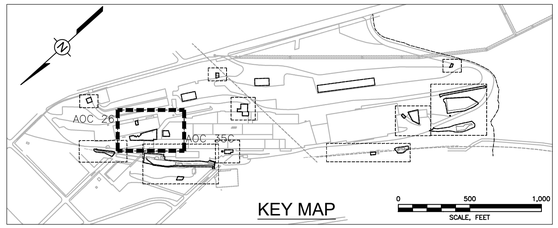
SHEET 2

Drawing Number
314P0551–D61



AOC 26 AND AOC 35



NOTES:

1. EROSION AND SEDIMENTATION CONTROLS SHALL CONFORM TO "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", JULY 2016.

2. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

ESC KEY NOTES:

2 DAILY SWEEPING IN PAVED AREA AND DEWATERING USING FILTER BAG.

LEGEND

34	BUILDING NUMBER
AOC 35A	AREA OF CONCERN (AOC) "LIMITS OF EXCAVATION"
	PROPERTY BOUNDARY
	EASEMENT
LOD	LIMIT OF DISTURBANCE (LOD)
	EARTH BERM (EB)
	STOCKPILE AREA
FS	COMPOST FILTER SOCK (FS)
	DRAINAGE AREA (DA)
	EXISTING CONTOURS
100	PROPOSED CONTOURS
	WETLAND BOUNDARY (NWI)
FB	FILTER BAG (FB)
	SAND BAG DIKE (SB)
	ROCK OUTLET PROTECTION (ROP)
	INLET PROTECTION (IP)
RPS	CLEAR WATER PUMP/LINE (RPS)
	STABILIZED CONSTRUCTION ACCESS (SCA)
	EXISTING IMPERVIOUS/PAVED AREA
	EXISTING BUILDINGS

20 0 20 40
SCALE, FEET

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AOCs 26 AND 35C
PLAN

STORMWATER POLLUTION PREVENTION PLAN
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PREPARED FOR
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SHEET 3

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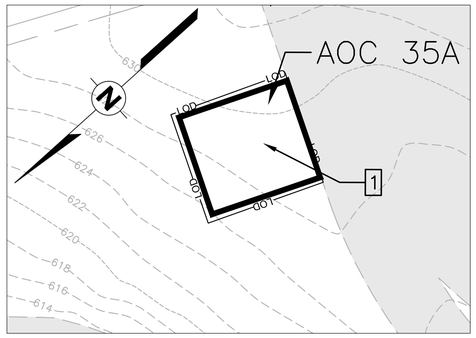
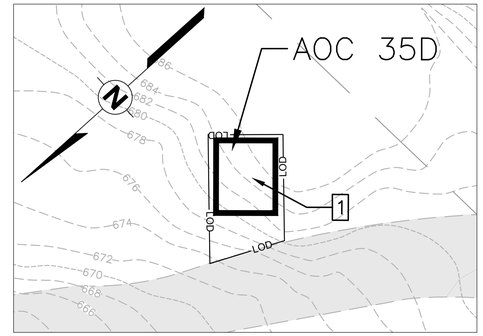
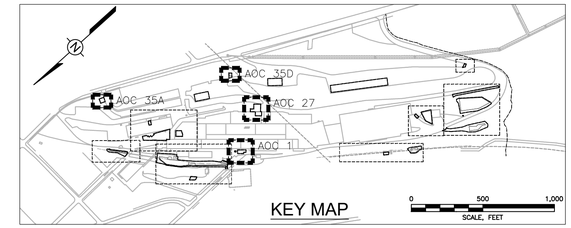


AOC 35A



AOC 35D



KEY MAP

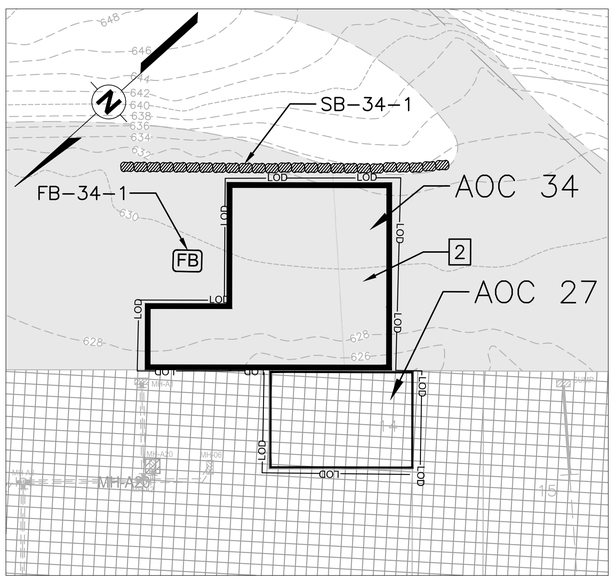
NOTES:

1. EROSION AND SEDIMENTATION CONTROLS SHALL CONFORM TO "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", JULY 2016.

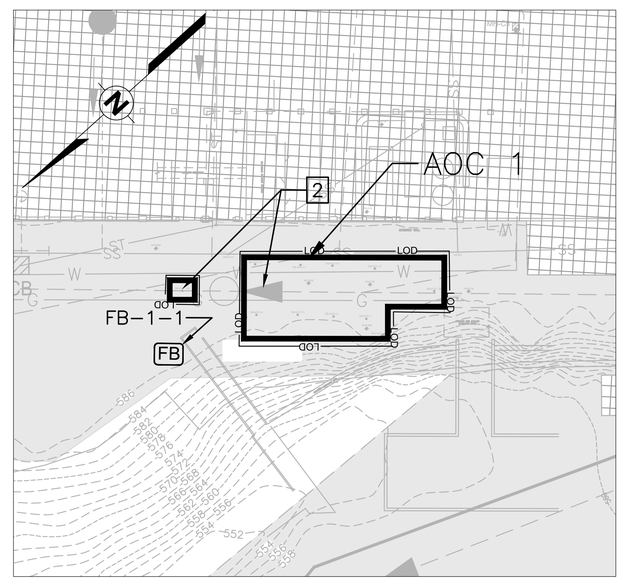
2. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

ESC KEY NOTES:

1. SAME DAY STABILIZATION FOR SMALL EXCAVATION AREA.
2. DAILY SWEEPING IN PAVED AREA AND DEWATERING USING FILTER BAG.



AOC 27 AND AOC 34



AOC 1

LEGEND

34	BUILDING NUMBER
AOC 35A	AREA OF CONCERN (AOC) "LIMITS OF EXCAVATION"
	PROPERTY BOUNDARY
	EASEMENT
LOD	LIMIT OF DISTURBANCE (LOD)
	EARTH BERM (EB)
	STOCKPILE AREA
FS	COMPOST FILTER SOCK (FS)
	DRAINAGE AREA (DA)
	EXISTING CONTOURS
100	PROPOSED CONTOURS
	WETLAND BOUNDARY (NWI)
FB	FILTER BAG (FB)
	SAND BAG DIKE (SB)
	ROCK OUTLET PROTECTION (ROP)
	INLET PROTECTION (IP)
RPS	CLEAR WATER PUMP/LINE (RPS)
	STABILIZED CONSTRUCTION ACCESS (SCA)
	EXISTING IMPERVIOUS/PAVED AREA
	EXISTING BUILDINGS

20 0 20 40
SCALE, FEET

REVISIONS

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AOCs 1, 27, 35A, AND 35D PLAN

STORMWATER POLLUTION PREVENTION PLAN
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ITHACA, NEW YORK

PREPARED FOR
EMERSON – ST. LOUIS, MISSOURI

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SHEET 4

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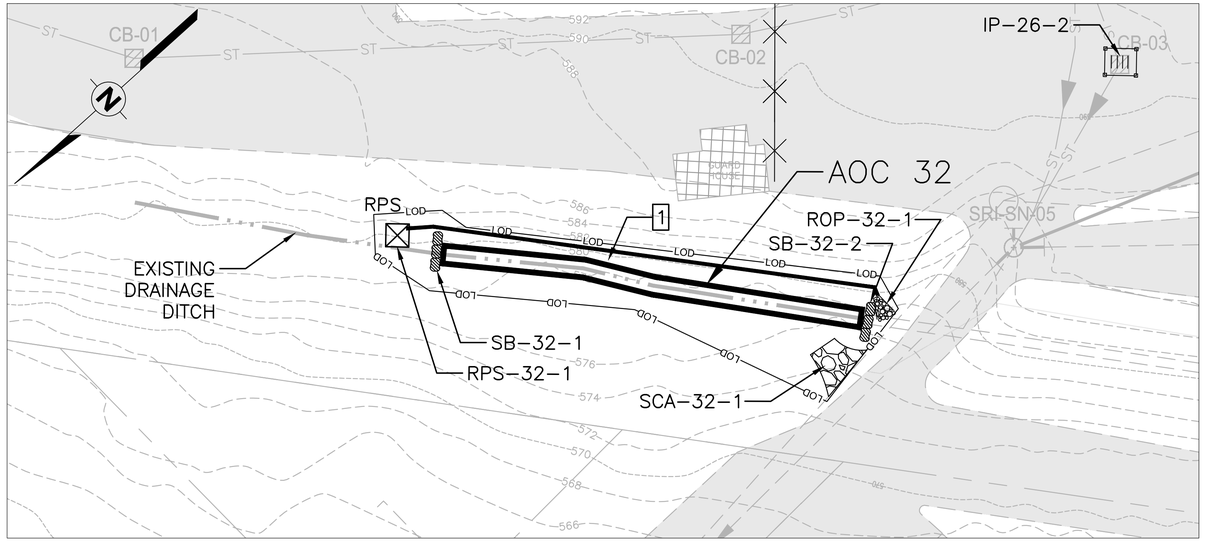
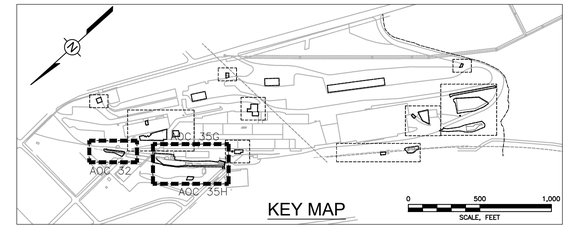


AOC 32 PHASE 1



NOTES:

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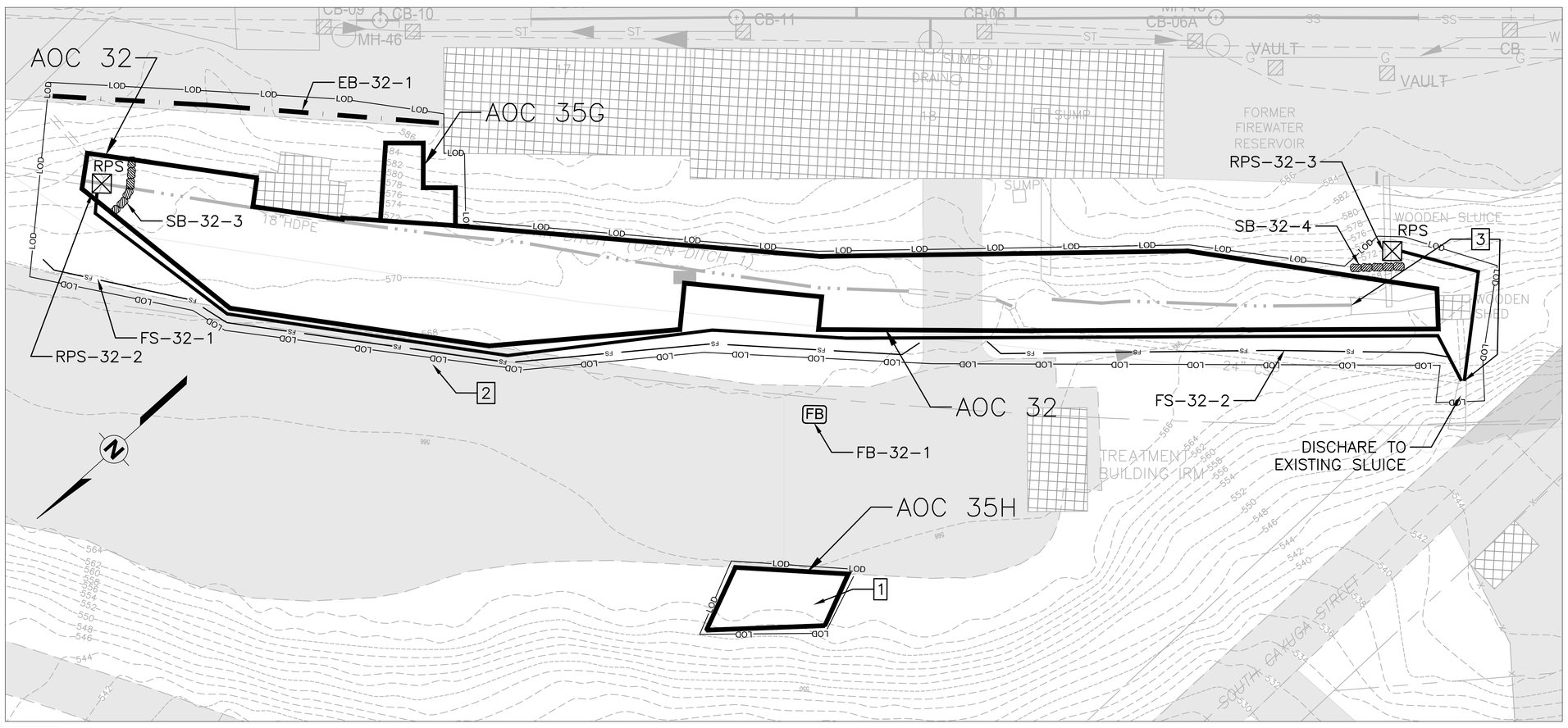
2. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

3. CONTRACTOR SHOULD PROCEED THE WORK IN AOC 32 IN PHASE 1 AND PHASE 2 SEQUENCE. EROSION AND SEDIMENT CONTROL MEASURES AND PUMP-AROUND PRACTICES FOR EACH PHASE SHOULD BE INSTALLED BEFORE ANY OF THE DISTURBANCE IN EACH PHASE. AFTER THE EXCAVATION AND RESTORATION, WORK AREA MUST BE STABILIZED BEFORE REMOVING THE PUMP-AROUND PRACTICES.

ESC KEY NOTES:

1. SAME DAY STABILIZATION FOR SMALL EXCAVATION AREA.
2. DAILY SWEEPING IN PAVED AREA AND DEWATERING USING FILTER BAG.
3. PROVIDE PROTECTION TO THE EXISTING WOODEN SLUICE AND WEIR. REPLACE DRAINAGE FEATURES AS NECESSARY.



AOC 32 PHASE 2, AOC 35G AND AOC 35H

LEGEND

- 34 BUILDING NUMBER
- AOC 35A AREA OF CONCERN (AOC) "LIMITS OF EXCAVATION"
- PROPERTY BOUNDARY
- EASEMENT
- LIMIT OF DISTURBANCE (LOD)
- EARTH BERM (EB)
- STOCKPILE AREA
- COMPOST FILTER SOCK (FS)
- DRAINAGE AREA (DA)
- EXISTING CONTOURS
- PROPOSED CONTOURS
- WETLAND BOUNDARY (NWI)
- FILTER BAG (FB)
- SAND BAG DIKE (SB)
- ROCK OUTLET PROTECTION (ROP)
- INLET PROTECTION (IP)
- RPS CLEAR WATER PUMP/LINE (RPS)
- STABILIZED CONSTRUCTION ACCESS (SCA)
- EXISTING IMPERVIOUS/PAVED AREA
- EXISTING BUILDINGS

20 0 20 40
SCALE, FEET

D

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AOCs 32, 35G, AND 35H PLAN

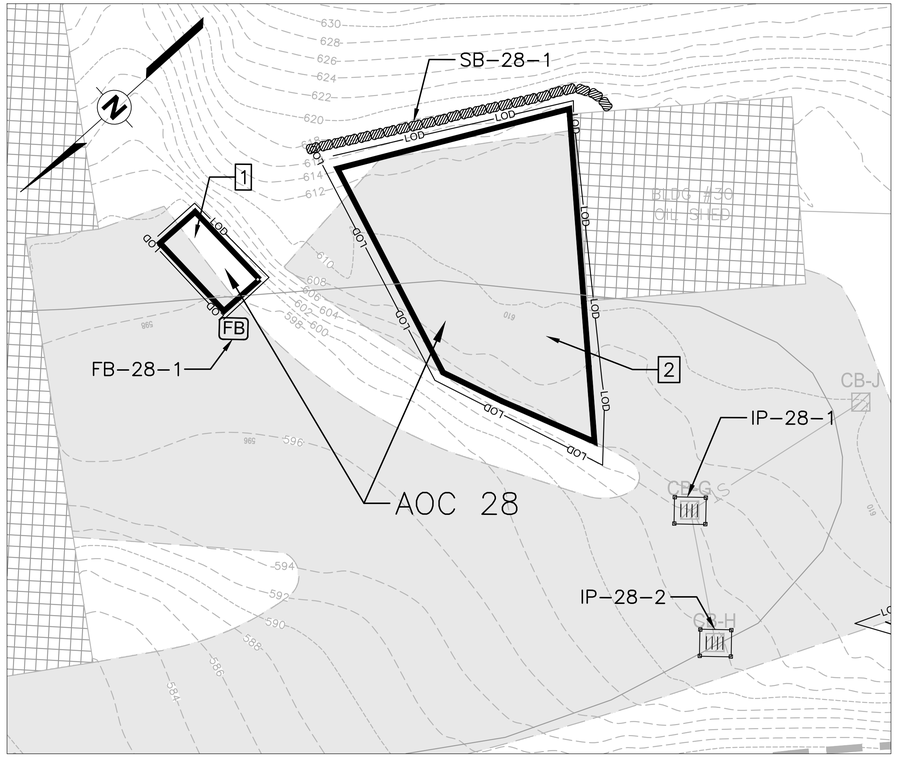
STORMWATER POLLUTION PREVENTION PLAN
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON – ST. LOUIS, MISSOURI

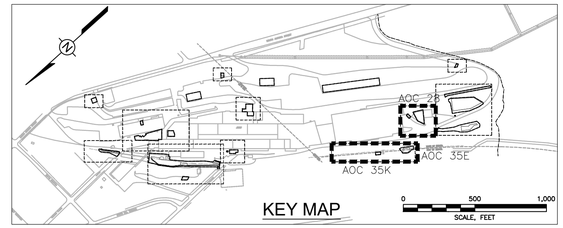
WSP USA Inc.
750 HOLIDAY DRIVE, SUITE 410
PITTSBURGH, PA 15220
TEL: +1 412.604.1040

SHEET 5

Drawing Number
314P0551–D64



AOC 28



NOTES:

1. EROSION AND SEDIMENTATION CONTROLS SHALL CONFORM TO "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", JULY 2016.

2. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

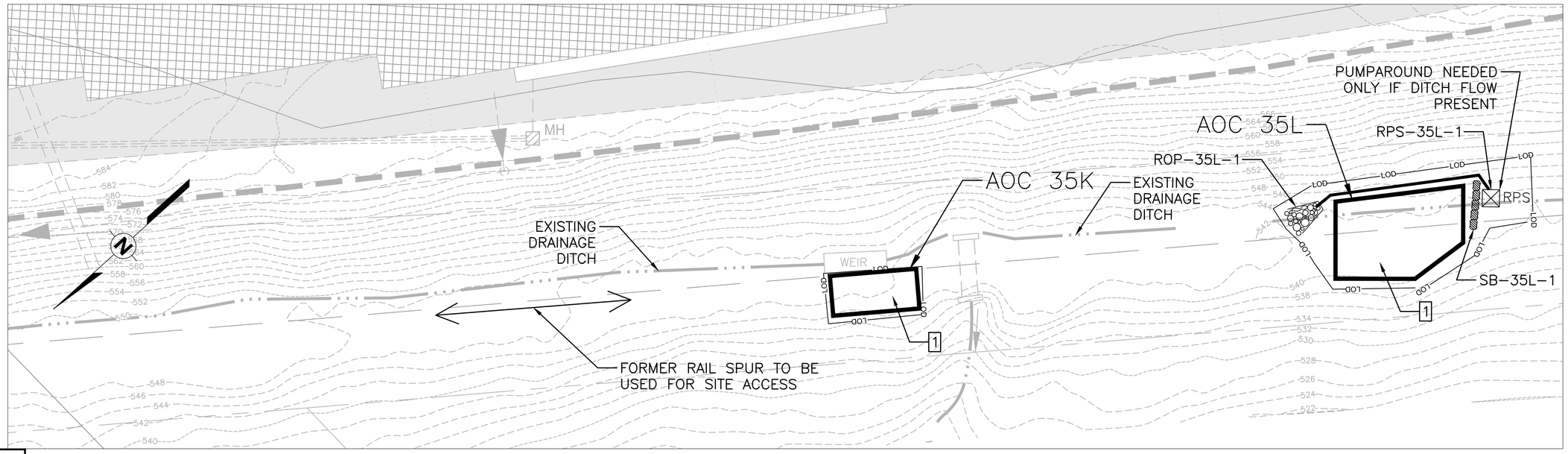
ESC KEY NOTES:

1 SAME DAY STABILIZATION FOR SMALL EXCAVATION AREA.

2 DAILY SWEEPING IN PAVED AREA AND DEWATERING USING FILTER BAG.

LEGEND

- 34 BUILDING NUMBER
- AOC 35A AREA OF CONCERN (AOC) "LIMITS OF EXCAVATION"
- PROPERTY BOUNDARY
- EASEMENT
- LOD LIMIT OF DISTURBANCE (LOD)
- EARTH BERM (EB)
- STOCKPILE AREA
- FS COMPOST FILTER SOCK (FS)
- DRAINAGE AREA (DA)
- EXISTING CONTOURS
- 100 PROPOSED CONTOURS
- WETLAND BOUNDARY (NWI)
- FB FILTER BAG (FB)
- SAND BAG DIKE (SB)
- ROCK OUTLET PROTECTION (ROP)
- INLET PROTECTION (IP)
- RPS CLEAR WATER PUMP/LINE (RPS)
- STABILIZED CONSTRUCTION ACCESS (SCA)
- EXISTING IMPERVIOUS/PAVED AREA
- EXISTING BUILDINGS



AOC 35K AND AOC 35L

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SCALE, FEET

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1	Revised	Chkd: Appr.:
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SHEET 6

Drawing Number
314P0551–D65

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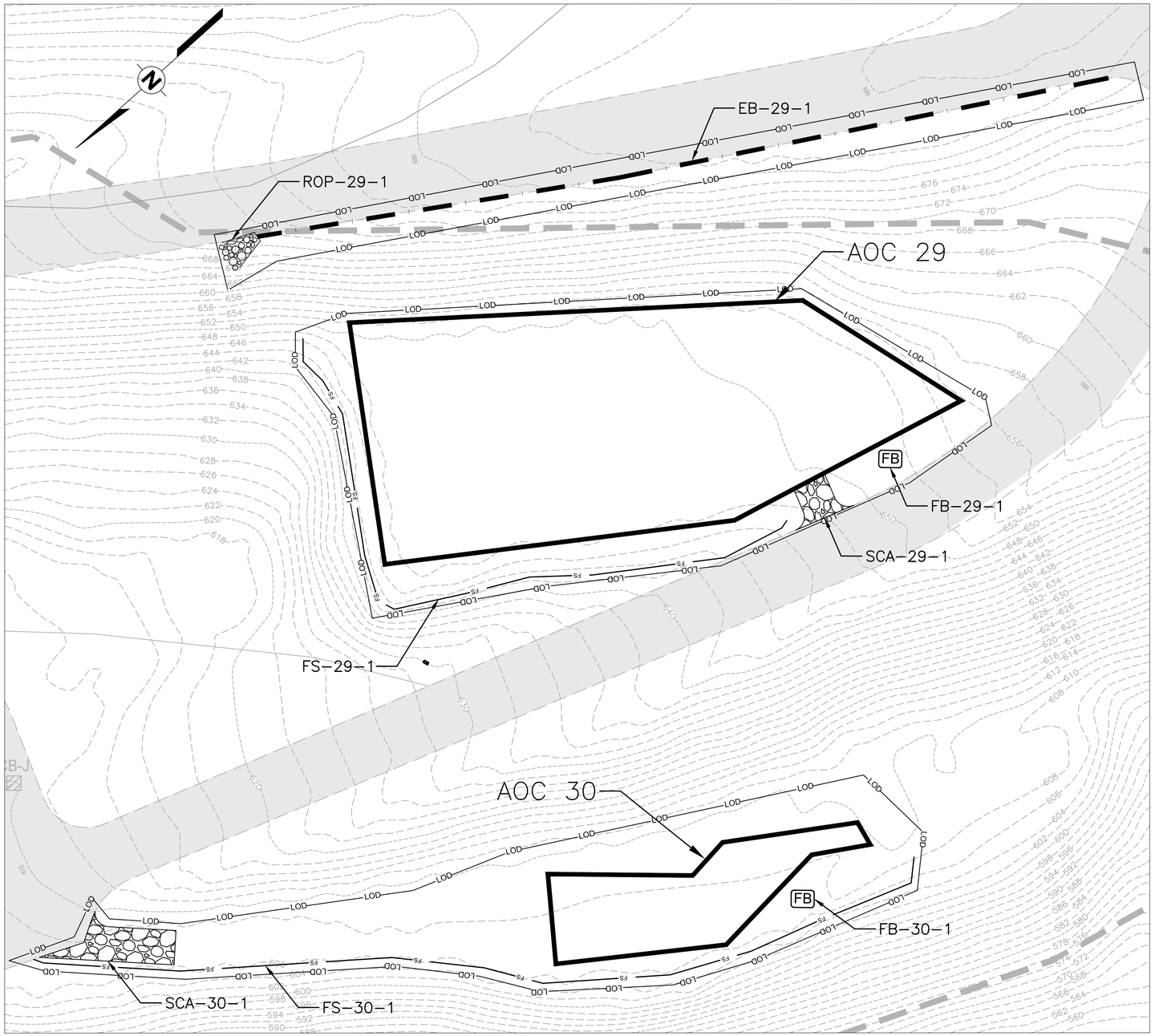
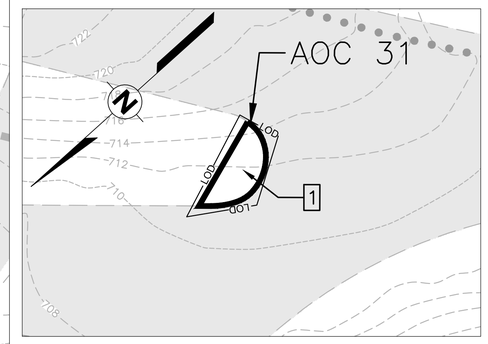
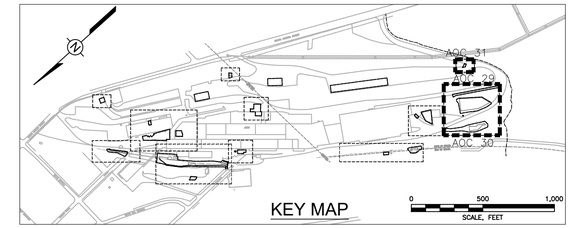


AOC 29 AND AOC 30



AOC 31



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LEGEND

- 34 BUILDING NUMBER
- AOC 35A AREA OF CONCERN (AOC) "LIMITS OF EXCAVATION"
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- STABILIZED CONSTRUCTION ACCESS (SCA)
- EXISTING IMPERVIOUS/PAVED AREA
- EXISTING BUILDINGS

20 0 20 40
SCALE, FEET

REVISIONS

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2	Revised	Chkd: Appr.:
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AOCs 29, 30 AND 31

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SHEET 7

Drawing Number
314P0551–D66

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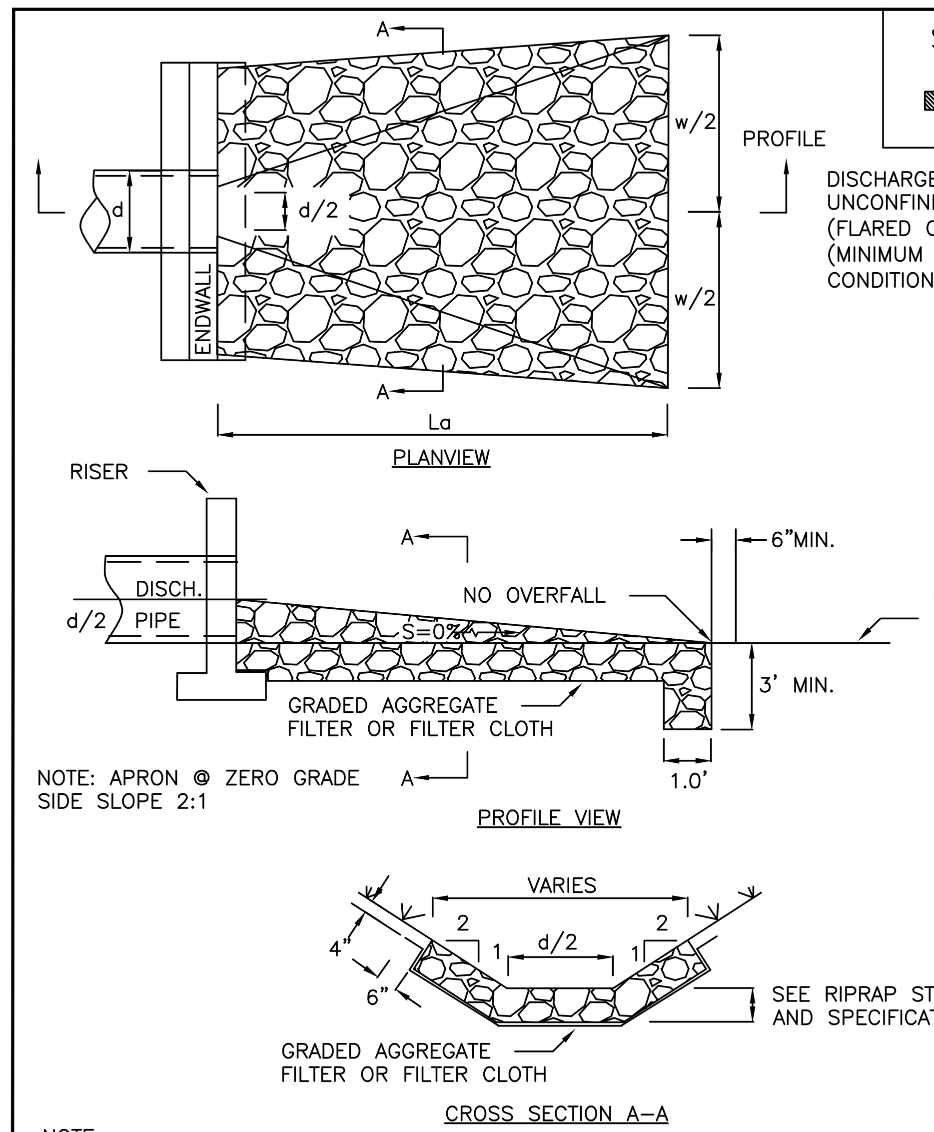
RIPRAP OUTLET PROTECTION EXAMPLE

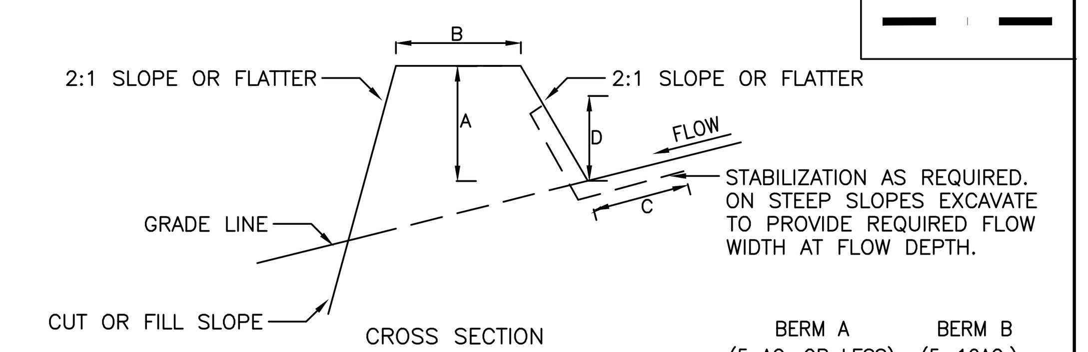


NOTE:
SEE RIPRAP STANDARDS AND SPECIFICATIONS
MINIMUM TAILWATER CONDITIONS

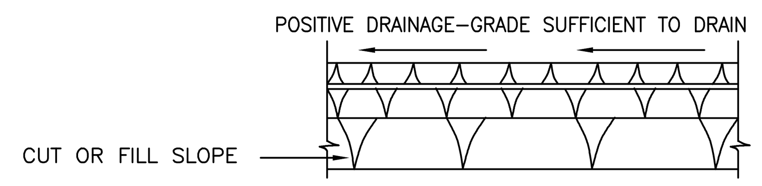
ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

RIPRAP OUTLET PROTECTION EXAMPLE

EARTH BERM



	BERM A (5 AC. OR LESS)	BERM B (5–10AC.)
A – BERM HEIGHT	18"	36"
B – BERM WIDTH	24"	36"
C – FLOW WIDTH	48"	72"
D – FLOW DEPTH	8"	15"



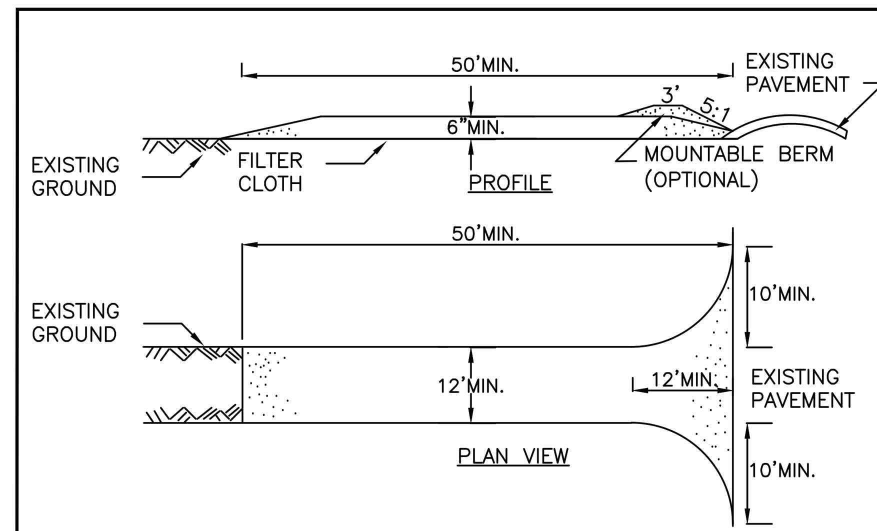
CONSTRUCTION SPECIFICATIONS

1. ALL BERMS SHALL BE COMPACTED BY EARTH–MOVING EQUIPMENT.
2. ALL BERMS SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH BERMS SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE BERM CHANNEL OR THE DRAINAGE AREA ABOVE THE BERM ARE NOT ADEQUATELY STABILIZED.
6. FILL STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL STABILIZATION PER THE STANDARD CHART BASED ON CHANNEL GRADE.

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

EARTH BERM

STABILIZED CONSTRUCTION ACCESS



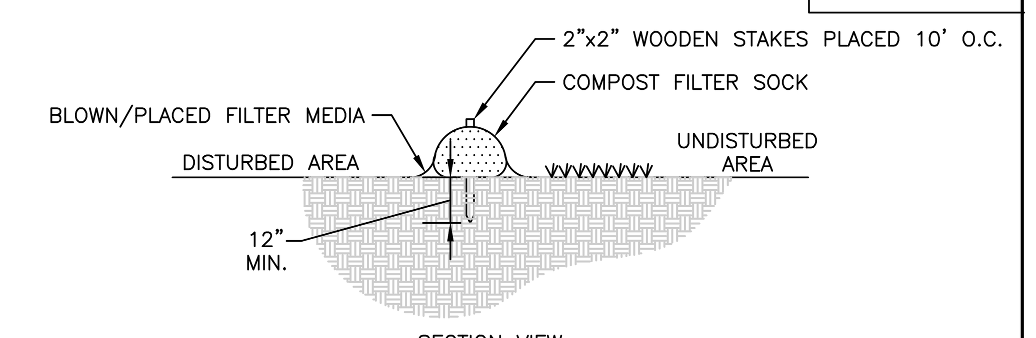
CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 1–4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY–FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CON–STRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

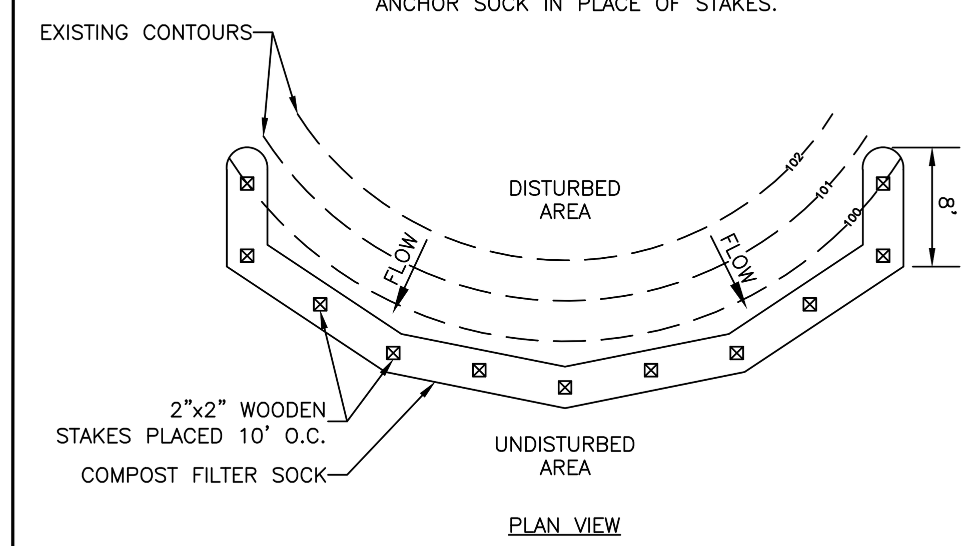
ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STABILIZED CONSTRUCTION ACCESS

COMPOST FILTER SOCK



NOTE: WHEN INSTALLED ON PAVEMENT SANDBAGS ARE TO BE USED TO ANCHOR SOCK IN PLACE OF STAKES.



ADAPTED FROM DETAILS PROVIDED BY: FILTREXX

COMPOST FILTER SOCK

PUMPAROUND DETAIL

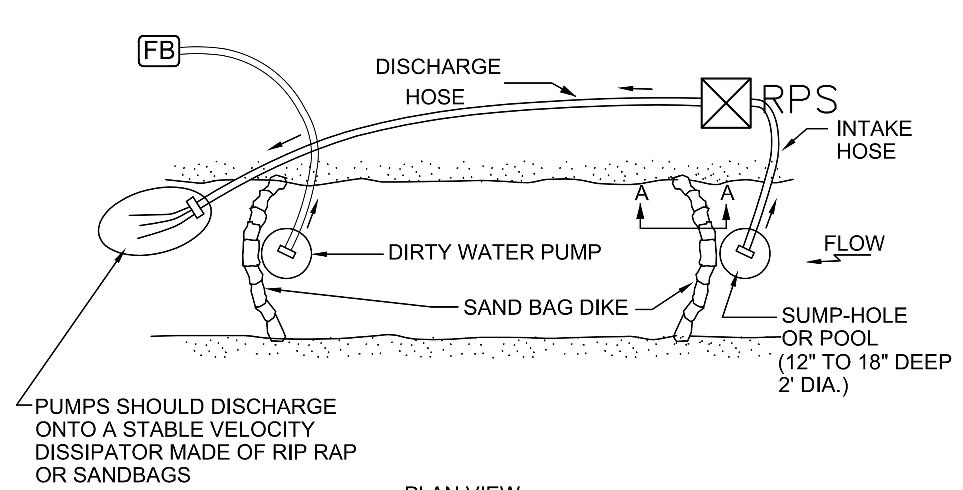
DESCRIPTION

THE WORK SHOULD CONSIST OF INSTALLING A TEMPORARY PUMP AROUND AND SUPPORTING MEASURES TO DIVERT FLOW AROUND DITCH AREA.

IMPLEMENTATION SEQUENCE

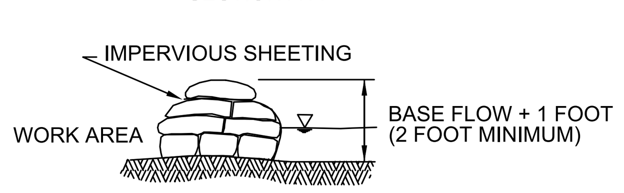
SEDIMENT CONTROL MEASURES, PUMP-AROUND PRACTICES, SHOULD BE COMPLETED IN THE FOLLOWING SEQUENCE (REFER TO DETAIL):

1. CONSTRUCTION SHOULD NOT BEGIN UNTIL ALL SEDIMENT AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND APPROVED BY THE ENGINEER AND THE SEDIMENT CONTROL INSPECTOR. THE CONTRACTOR SHOULD STAY WITHIN THE LIMITS OF THE DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE DISTURBANCE WITHIN THE WORK AREA WHENEVER POSSIBLE.
2. UPON INSTALLATION OF ALL SEDIMENT CONTROL MEASURES AND APPROVAL BY THE SEDIMENT CONTROL INSPECTOR AND THE LOCAL ENVIRONMENTAL PROTECTION AND RESOURCE MANAGEMENT INSPECTION AND ENFORCEMENT DIVISION, THE CONTRACTOR SHOULD BEGIN WORK AT THE UPSTREAM SECTION AND PROCEED DOWNSTREAM BEGINNING WITH THE ESTABLISHMENT OF STABILIZED CONSTRUCTION ENTRANCES. THE CONTRACTOR SHOULD ONLY BEGIN WORK IN AN AREA WHICH CAN BE COMPLETED BY THE END OF THE DAY. AT THE END OF EACH WORK DAY, THE WORK AREA MUST BE STABILIZED AND THE PUMP AROUND REMOVED. WORK SHOULD NOT BE CONDUCTED DURING RAIN EVENTS.
3. SANDBAG DIKES SHOULD BE SITUATED AT THE UPSTREAM ENDS OF THE WORK AREA AS SHOWN ON THE PLANS, AND DITCH FLOW SHOULD BE PUMPED AROUND THE WORK AREA. THE PUMP SHOULD DISCHARGE ONTO A STABLE VELOCITY DISSIPATER MADE OF RIPRAP OR SANDBAGS.
4. WATER FROM THE WORK AREA SHOULD BE PUMPED TO A FILTER BAG AND CHARACTERIZED, WITH APPROVAL, BEFORE OFFSITE DISPOSAL.
5. AFTER AN AREA IS COMPLETED AND STABILIZED, THE SAND BAG DIKES SHOULD BE REMOVED.
6. AFTER CONSTRUCTION, ALL DISTURBED AREAS SHOULD BE RESTORED.



PLAN VIEW

SECTION A-A



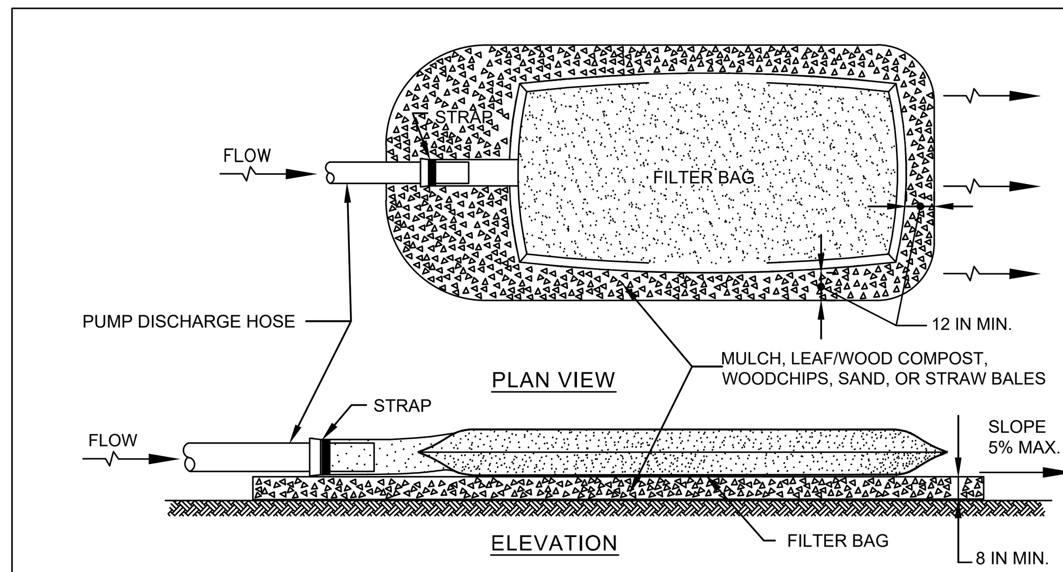
CROSS SECTION OF SANDBAG DIKE

PUMPAROUND DETAIL
NOT TO SCALE

SOIL STAGING AREA DETAIL

SOIL STAGING AREA DETAIL
NOT TO SCALE

DEWATERING FILTER BAG DETAIL



CONSTRUCTION SPECIFICATIONS

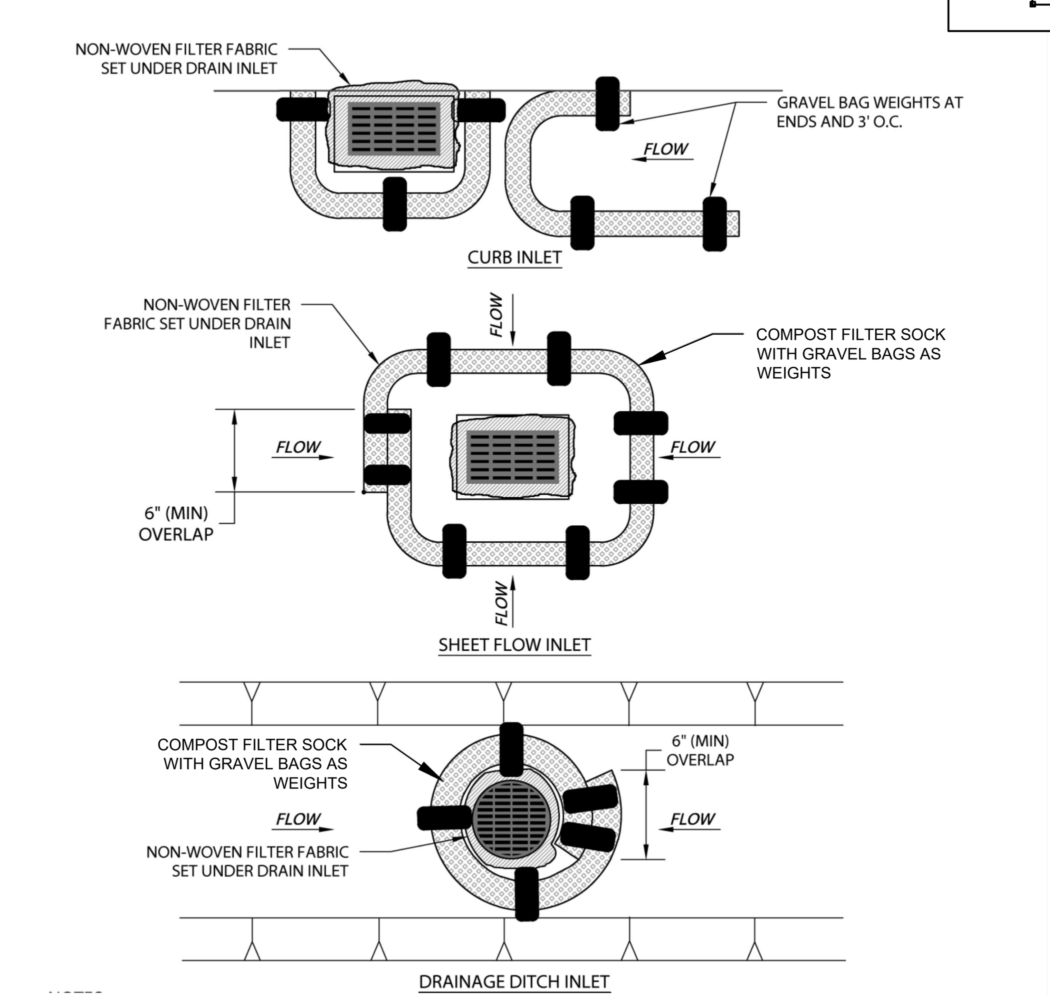
1. TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
2. PLACE FILTER BAG ON SUITABLE BASE (E.G., MULCH, LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES) LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
3. CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITH SEDIMENT, REDUCE PUMPING RATE.
4. REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY, WHICHEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.
5. USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MARV) FOR THE FOLLOWING:

GRAB TENSILE	250 LB	ASTM D-4632
PUNCTURE	150 LB	ASTM D-4833
FLOW RATE	70 GAL/MIN/FT²	ASTM D-4491
PERMITTIVITY (SEC^{-1})	1.2 SEC^{-1}	ASTM D-4491
UV RESISTANCE	70% STRENGTH @ 500 HOURS	ASTM D-4355
APPARENT OPENING SIZE (AOS)	0.15-0.18 MM	ASTM D-4751
SEAM STRENGTH	90%	ASTM D-4632

6. REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED.

DEWATERING FILTER BAG DETAIL
NOT TO SCALE

INLET PROTECTION DETAIL



NOTES
1. COMPOST FILTER SOCK DRAIN INLET PROTECTION SHALL USE A MIN. 12" DIAMETER ROLL AND BE INSTALLED BEFORE CONSTRUCTION BEGINS.
2. GRAVEL BAGS SHALL BE FILLED WITH GRAVEL AND SANDBAGS ARE NOT AN ACCEPTABLE SUBSTITUTE.
3. INSPECT AND REPAIR COMPOST FILTER SOCK EACH DAY AND AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN ONE THIRD OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DISPOSED OF PROPERLY.
4. SEDIMENT AND GRAVEL DEPOSITED ON ROADWAYS SHALL BE IMMEDIATELY REMOVED.
5. IN HIGH TRAFFIC AREAS, MARK DRAIN INLET PROTECTION WITH VISIBLE BARRIERS SUCH AS SAFETY CONES.
6. REMOVE DRAIN INLET PROTECTION AFTER THE SURROUNDING AREA HAS BEEN STABILIZED.

INLET PROTECTION DETAIL
NOT TO SCALE

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SHEET 8

Drawing Number
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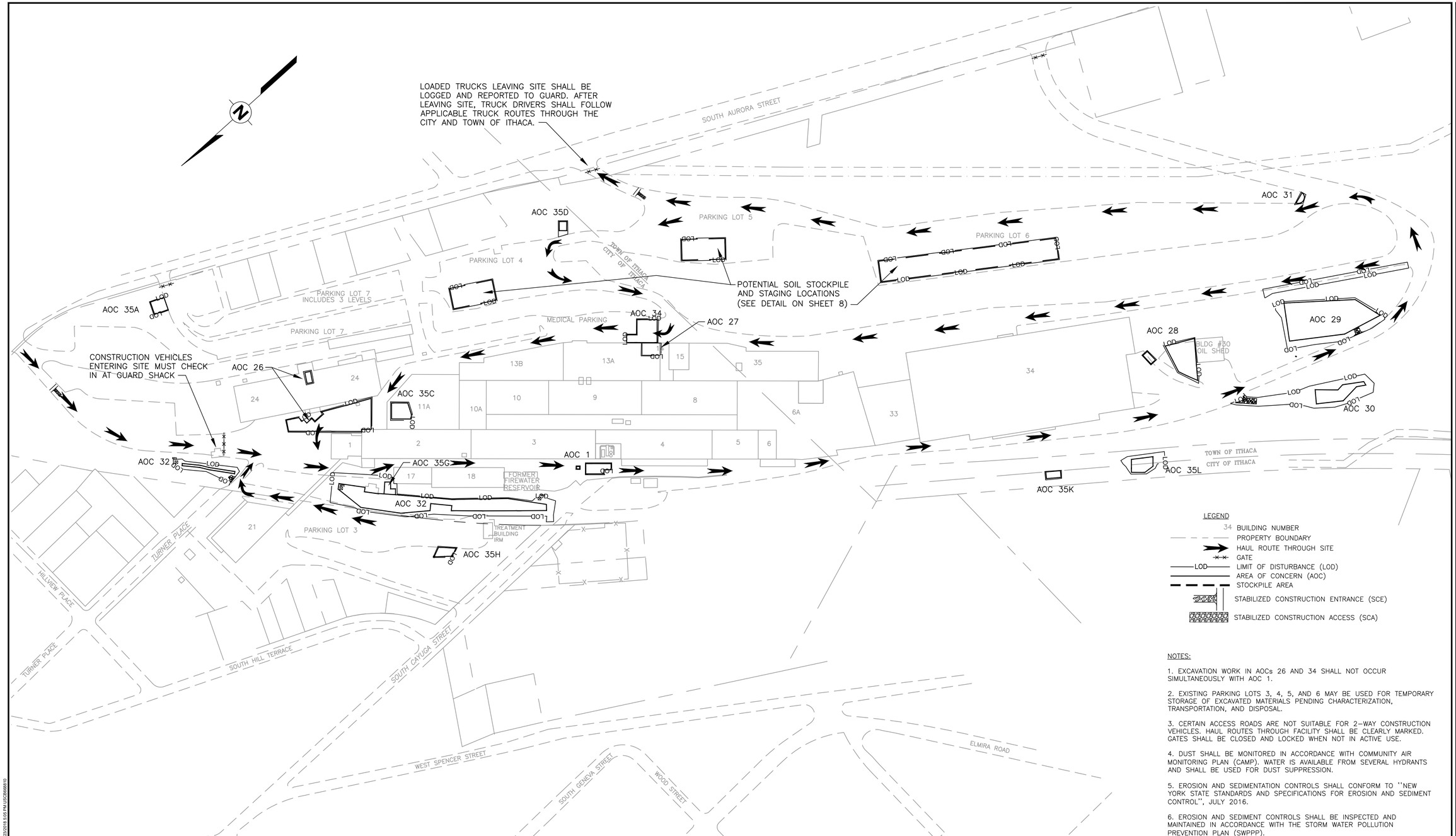

LEGEND

- 34 BUILDING NUMBER
- PROPERTY BOUNDARY
- HAUL ROUTE THROUGH SITE
- GATE
- LOD — LIMIT OF DISTURBANCE (LOD)
- AREA OF CONCERN (AOC)
- STOCKPILE AREA
- STABILIZED CONSTRUCTION ENTRANCE (SCE)
- STABILIZED CONSTRUCTION ACCESS (SCA)

NOTES:

1. EXCAVATION WORK IN AOCs 26 AND 34 SHALL NOT OCCUR SIMULTANEOUSLY WITH AOC 1.

2. EXISTING PARKING LOTS 3, 4, 5, AND 6 MAY BE USED FOR TEMPORARY STORAGE OF EXCAVATED MATERIALS PENDING CHARACTERIZATION, TRANSPORTATION, AND DISPOSAL.

3. CERTAIN ACCESS ROADS ARE NOT SUITABLE FOR 2-WAY CONSTRUCTION VEHICLES. HAUL ROUTES THROUGH FACILITY SHALL BE CLEARLY MARKED. GATES SHALL BE CLOSED AND LOCKED WHEN NOT IN ACTIVE USE.

4. DUST SHALL BE MONITORED IN ACCORDANCE WITH COMMUNITY AIR MONITORING PLAN (CAMP). WATER IS AVAILABLE FROM SEVERAL HYDRANTS AND SHALL BE USED FOR DUST SUPPRESSION.

5. EROSION AND SEDIMENTATION CONTROLS SHALL CONFORM TO "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", JULY 2016.

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SCALE, FEET

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HAUL ROUTE AND STOCKPILE / STAGING AREAS

STORMWATER POLLUTION PREVENTION PLAN
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON – ST. LOUIS, MISSOURI

WSP USA Inc.
13530 DULLES TECHNOLOGY DR. SUITE 300
HERNDON, VA 20171
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SHEET 9

Drawing Number
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APPENDIX

B

TR 55 CALCULATION

WinTR-55 Current Data Description

--- Identification Data ---

User: Sonia Wu Date: 6/8/2018
Project: Ithaca Units: English
SubTitle: Remediation Site Areal Units: Acres
State: New York
County: Tompkins
Filename: \\USBAL200CIFS01\Discipline\WAT - Water\WATER_PROJECTS\Ithaca_SWPPP\ESC\WinTR55\Ithaca.w55

--- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Tc
POI-1		Outlet	18.58	94	.625
POI-2		Outlet	14.4	76	.568

Total area: 32.98 (ac)

--- Storm Data --

Rainfall Depth by Rainfall Return Period

2-Yr (in)	5-Yr (in)	10-Yr (in)	25-Yr (in)	50-Yr (in)	100-Yr (in)	1-Yr (in)
2.34	2.91	3.43	4.27	5.04	5.94	2.01

Storm Data Source: Tompkins County, NY (NRCS)
Rainfall Distribution Type: Type II
Dimensionless Unit Hydrograph: <standard>

Sonia Wu Ithaca
Remediation Site
Tompkins County, New York

Storm Data

Rainfall Depth by Rainfall Return Period

2-Yr (in)	5-Yr (in)	10-Yr (in)	25-Yr (in)	50-Yr (in)	100-Yr (in)	1-Yr (in)
2.34	2.91	3.43	4.27	5.04	5.94	2.01

Storm Data Source: Tompkins County, NY (NRCS)
Rainfall Distribution Type: Type II
Dimensionless Unit Hydrograph: <standard>

Sonia Wu Ithaca
Remediation Site
Tompkins County, New York

Watershed Peak Table

Sub-Area or Reach Identifier	Peak Flow by Rainfall Return Period 10-Yr (cfs)	100-Yr (cfs)	1-Yr (cfs)
SUBAREAS			
POI-1	38.37	70.31	19.94
POI-2	14.89	39.05	3.95
REACHES			
OUTLET	53.11	109.27	23.84

Sonia Wu Ithaca
Remediation Site
Tompkins County, New York

Hydrograph Peak/Peak Time Table

Sub-Area or Reach Identifier	Peak Flow and Peak Time (hr) by Rainfall Return Period 10-Yr (cfs) (hr)	100-Yr (cfs) (hr)	1-Yr (cfs) (hr)
SUBAREAS			
POI-1	38.37 12.25	70.31 12.22	19.94 12.26
POI-2	14.89 12.23	39.05 12.24	3.95 12.26
REACHES			
OUTLET	53.11	109.27	23.84

Sonia Wu Ithaca
Remediation Site
Tompkins County, New York

Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)	Curve Number	Receiving Reach	Sub-Area Description
POI-1	18.58	0.625	94	Outlet	
POI-2	14.40	0.568	76	Outlet	

Total Area: 32.98 (ac)

Sonia Wu Ithaca
Remediation Site
Tompkins County, New York

Sub-Area Time of Concentration Details

Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Travel Velocity (ft/sec)	Time (hr)
POI-1							
SHEET	100	0.0550	0.800				0.486
SHALLOW	344	0.1200	0.025				0.014
CHANNEL	1796					4.000	0.125
Time of Concentration							.625
POI-2							
SHEET	100	0.1140	0.800				0.363
SHALLOW	287	0.2200	0.050				0.011
CHANNEL	2795					4.000	0.194
Time of Concentration							.568

Sonia Wu Ithaca
Remediation Site
Tompkins County, New York

Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use	Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
POI-1	Open space; grass cover > 75% (good)	C	3.46	74
	Paved; curbs and storm sewers	C	15.12	98
	Total Area / Weighted Curve Number		18.58	94
POI-2	Open space; grass cover > 75% (good)	B	1.06	61

Open space; grass cover > 75%	(good)	C	5.05	74
Open space; grass cover > 75%	(good)	D	8.29	80
Total Area / Weighted Curve Number			14.4	76
		====	==	

APPENDIX

C

GENERAL PERMIT NO. GP-0-15-002

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP-0-15-002

Issued Pursuant to Article 17, Titles 7, 8 and Article 70
of the Environmental Conservation Law

Effective Date: January 29, 2015 Expiration Date: January 28, 2020

Modification Date:

July 14, 2015 – Correction of typographical error in definition of "New Development", Appendix A

November 23, 2016 – Updated to require the use of the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. The use of this standard will be required as of February 1, 2017.

John J. Ferguson
Chief Permit Administrator

Authorized Signature 11-14-16
Date

Address: NYS DEC
Division of Environmental Permits
625 Broadway, 4th Floor
Albany, N.Y. 12233-1750

PREFACE

Pursuant to Section 402 of the Clean Water Act ("CWA"), stormwater *discharges* from certain *construction activities* are unlawful unless they are authorized by a *National Pollutant Discharge Elimination System ("NPDES")* permit or by a state permit program. New York's *State Pollutant Discharge Elimination System ("SPDES")* is a NPDES-approved program with permits issued in accordance with the *Environmental Conservation Law ("ECL").*

This general permit ("permit") is issued pursuant to Article 17, Titles 7, 8 and Article 70 of the ECL. An *owner or operator* may obtain coverage under this permit by submitting a Notice of Intent ("NOI") to the Department. Copies of this permit and the NOI for New York are available by calling (518) 402-8109 or at any New York State Department of Environmental Conservation ("the Department") regional office (see Appendix G).They are also available on the Department's website at:

http://www.dec.ny.gov/

An *owner or operator* of a *construction activity* that is eligible for coverage under this permit must obtain coverage prior to the *commencement of construction activity*. Activities that fit the definition of "*construction activity*", as defined under 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), constitute construction of a point source and therefore, pursuant to Article 17-0505 of the ECL, the *owner or operator* must have coverage under a SPDES permit prior to *commencing construction activity*. They cannot wait until there is an actual *discharge* from the construction site to obtain permit coverage.

***Note: The italicized words/phrases within this permit are defined in Appendix A.**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES
FROM CONSTRUCTION ACTIVITIES

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(Part I)

Part I. PERMIT COVERAGE AND LIMITATIONS

A. Permit Application

This permit authorizes stormwater *discharges* to *surface waters of the State* from the following *construction activities* identified within 40 CFR Parts 122.26(b)(14)(x), 122.26(b)(15)(i) and 122.26(b)(15)(ii), provided all of the eligibility provisions of this permit are met:

1. *Construction activities* involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a *larger common plan of development or sale* that will ultimately disturb one or more acres of land; excluding *routine maintenance activity* that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility;

2. *Construction activities* involving soil disturbances of less than one (1) acre where the Department has determined that a *SPDES* permit is required for stormwater *discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of *pollutants* to *surface waters of the State.*

3. *Construction activities* located in the watershed(s) identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

B. Effluent Limitations Applicable to Discharges from Construction Activities

*Discharge*s authorized by this permit must achieve, at a minimum, the effluent limitations in Part I.B.1. (a) – (f) of this permit. These limitations represent the degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The *owner or operator* must select, design, install, implement and maintain control measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part I.B.1.(a) – (f) of this permit and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must include in the Stormwater Pollution Prevention Plan ("SWPPP") the reason(s) for the deviation or alternative design and provide information

which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

a. **Erosion and Sediment Controls.** Design, install and maintain effective erosion and sediment controls to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such controls must be designed, installed and maintained to:

   (i) *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharge*s;

   (ii) Control stormwater *discharge*s to *minimize* channel and streambank erosion and scour in the immediate vicinity of the *discharge* points;

   (iii) *Minimize* the amount of soil exposed during *construction activity*;

   (iv) *Minimize* the disturbance of *steep slopes*;

   (v) *Minimize* sediment *discharge*s from the site;

   (vi) Provide and maintain natural buffers around surface waters, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce *pollutant discharge*s, unless *infeasible*;

   (vii) *Minimize* soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted; and

   (viii) Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover.

b. **Soil Stabilization**. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. For construction sites that *directly discharge* to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. See Appendix A for definition of *Temporarily Ceased*.

c. **Dewatering**. *Discharge*s from dewatering activities, including *discharge*s

from dewatering of trenches and excavations, must be managed by appropriate control measures.

d. **Pollution Prevention Measures**. Design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be designed, installed, implemented and maintained to:

(i) *Minimize* the *discharge* of *pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. This applies to washing operations that use clean water only. Soaps, detergents and solvents cannot be used;

(ii) *Minimize* the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site to precipitation and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a *discharge* of *pollutants*, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use) ; and

(iii) Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.

e. **Prohibited *Discharge*s.** The following *discharge*s are prohibited:

(i) Wastewater from washout of concrete;

(ii) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

(iii) Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance;

(iv) Soaps or solvents used in vehicle and equipment washing; and

(v) Toxic or hazardous substances from a spill or other release.

f. Surface Outlets. When discharging from basins and impoundments, the outlets shall be designed, constructed and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion

at or below the outlet does not occur.

C. Post-construction Stormwater Management Practice Requirements

1. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must select, design, install, and maintain the practices to meet the *performance criteria* in the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015, using sound engineering judgment. Where post-construction stormwater management practices ("SMPs") are not designed in conformance with the *performance criteria* in the Design Manual, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must design the practices to meet the applicable *sizing criteria* in Part I.C.2.a., b., c. or d. of this permit.

a. ***Sizing Criteria* for *New Development***

(i) Runoff Reduction Volume ("RRv"): Reduce the total Water Quality Volume ("WQv") by application of RR techniques and standard SMPs with RRv capacity. The total WQv shall be calculated in accordance with the criteria in Section 4.2 of the Design Manual.

(ii) Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part I.C.2.a.(i) of this permit due to *site limitations* shall direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv shall be documented in the SWPPP. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible.*

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 4.3 of the Design Manual. The remaining portion of the total WQv

that cannot be reduced shall be treated by application of standard SMPs.

(iii) Channel Protection Volume ("Cpv"): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:

(1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or

(2) The site *discharge*s directly to tidal waters, or fifth order or larger streams.

(iv) Overbank Flood Control Criteria ("Qp"): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:

(1) the site *discharge*s directly to tidal waters or fifth order or larger streams, or

(2) A downstream analysis reveals that overbank control is not required.

(v) Extreme Flood Control Criteria ("Qf"): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:

(1) the site *discharge*s directly to tidal waters or fifth order or larger streams, or

(2) A downstream analysis reveals that overbank control is not required.

b. ***Sizing Criteria* for *New Development* in Enhanced Phosphorus Removal Watershed**

(i) Runoff Reduction Volume (RRv): Reduce the total Water Quality Volume (WQv) by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24 hour design storm over the post-developed watershed and shall be calculated in accordance with the criteria in Section 10.3 of the Design Manual.

(ii) Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part I.C.2.b.(i) of this permit due to *site limitations* shall direct runoff from all newly constructed *impervious areas* to a RR technique or

standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv shall be documented in the SWPPP. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible.*

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 10.3 of the Design Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

(iii) Channel Protection Volume (Cpv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:

(1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or

(2) The site *discharge*s directly to tidal waters, or fifth order or larger streams.

(iv) Overbank Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:

(1) the site *discharge*s directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that overbank control is not required.

(v) Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:

(1) the site *discharge*s directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that overbank control is not required.

c. ***Sizing Criteria* for *Redevelopment Activity***

(Part I.C.2.c.i)

(i) Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* shall be addressed by one of the following options. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C of this permit) shall calculate the WQv in accordance with Section 10.3 of the Design Manual. All other *redevelopment activities* shall calculate the WQv in accordance with Section 4.2 of the Design Manual.

(1) Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the Design Manual must be applied to all newly created pervious areas, or
(2) Capture and treat a minimum of 25% of the WQv from the disturbed, *impervious area* by the application of standard SMPs; or reduce 25% of the WQv from the disturbed, *impervious area* by the application of RR techniques or standard SMPs with RRv capacity., or
(3) Capture and treat a minimum of 75% of the WQv from the disturbed, *impervious area* as well as any additional runoff from tributary areas by application of the alternative practices discussed in Sections 9.3 and 9.4 of the Design Manual., or
(4) Application of a combination of 1, 2 and 3 above that provide a weighted average of at least two of the above methods. Application of this method shall be in accordance with the criteria in Section 9.2.1(B) (IV) of the Design Manual.

If there is an existing post-construction stormwater management practice located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 – 4 above.

(ii) Channel Protection Volume (Cpv): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.

(iii) Overbank Flood Control Criteria (Qp): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.

(Part I.C.2.c.iv)

(iv) Extreme Flood Control Criteria (Qf): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.

d. ***Sizing Criteria*** **for Combination of** ***Redevelopment Activity*** **and** ***New Development***

Construction projects that include both *New Development* and *Redevelopment Activity* shall provide post-construction stormwater management controls that meet the *sizing criteria* calculated as an aggregate of the *Sizing Criteria* in Part I.C.2.a. or b. of this permit for the *New Development* portion of the project and Part I.C.2.c of this permit for *Redevelopment Activity* portion of the project.

D. Maintaining Water Quality

The Department expects that compliance with the conditions of this permit will control *discharge*s necessary to meet applicable *water quality standards*. It shall be a violation of the *ECL* for any discharge to either cause or contribute to a violation of *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, such as:

1. There shall be no increase in turbidity that will cause a substantial visible contrast to natural conditions;

2. There shall be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and

3. There shall be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the stormwater *discharge*s authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standards*; the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this general permit and document in accordance with Part IV.C.4. of this general permit. To address the *water quality standard* violation the *owner or operator* may need to provide additional information, include and implement appropriate controls in the SWPPP to correct the problem, or obtain an individual SPDES permit.

If there is evidence indicating that despite compliance with the terms and conditions of this general permit it is demonstrated that the stormwater *discharge*s authorized by this permit are causing or contributing to a violation of *water quality standards*, or

if the Department determines that a modification of the permit is necessary to prevent a violation of *water quality standards*, the authorized *discharge*s will no longer be eligible for coverage under this permit. The Department may require the *owner or operator* to obtain an individual SPDES permit to continue discharging.

E. Eligibility Under This General Permit

1. This permit may authorize all *discharges* of stormwater from *construction activity* to *surface waters of the State* and *groundwaters* except for ineligible *discharges* identified under subparagraph F. of this Part.

2. Except for non-stormwater *discharges* explicitly listed in the next paragraph, this permit only authorizes stormwater *discharge*s from *construction activities*.

3. Notwithstanding paragraphs E.1 and E.2 above, the following non-stormwater *discharges* may be authorized by this permit: *discharge*s from firefighting activities; fire hydrant flushings; waters to which cleansers or other components have not been added that are used to wash vehicles or control dust in accordance with the SWPPP, routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; uncontaminated *groundwater* or spring water; uncontaminated *discharge*s from construction site de-watering operations; and foundation or footing drains where flows are not contaminated with process materials such as solvents. For those entities required to obtain coverage under this permit, and who *discharge* as noted in this paragraph, and with the exception of flows from firefighting activities, these *discharge*s must be identified in the SWPPP. Under all circumstances, the *owner or operator* must still comply with *water quality standards* in Part I.D of this permit.

4. The *owner or operator* must maintain permit eligibility to *discharge* under this permit. Any *discharges* that are not compliant with the eligibility conditions of this permit are not authorized by the permit and the *owner or operator* must either apply for a separate permit to cover those ineligible *discharges* or take steps necessary to make the *discharge* eligible for coverage.

F. Activities Which Are Ineligible for Coverage Under This General Permit

All of the following are **not** authorized by this permit:

(Part I.F)

1. *Discharge*s after *construction activities* have been completed and the site has undergone *final stabilization*;

2. *Discharge*s that are mixed with sources of non-stormwater other than those expressly authorized under subsection E.3. of this Part and identified in the SWPPP required by this permit;

3. *Discharges* that are required to obtain an individual SPDES permit or another SPDES general permit pursuant to Part VII.K. of this permit;

4. *Construction activities* or *discharges* from *construction activities* that may adversely affect an endangered or threatened species unless the *owner or operator* has obtained a permit issued pursuant to 6 NYCRR Part 182 for the project or the Department has issued a letter of non-jurisdiction for the project. All documentation necessary to demonstrate eligibility shall be maintained on site in accordance with Part II.C.2 of this permit.

5. *Discharges* which either cause or contribute to a violation of *water quality standards* adopted pursuant to the *ECL* and its accompanying regulations;

6. *Construction activities* for residential, commercial and institutional projects:

   a. Where the *discharge*s from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and

   b. Which disturb one or more acres of land with no existing *impervious cover*; and

   c. Which are undertaken on land with a Soil Slope Phase that is identified as an E or F, or the map unit name is inclusive of 25% or greater slope, on the United States Department of Agriculture (“USDA”) Soil Survey for the County where the disturbance will occur.

7. *Construction activities* for linear transportation projects and linear utility projects:

   a. Where the *discharge*s from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and

   b. Which disturb two or more acres of land with no existing *impervious cover*; and

   c. Which are undertaken on land with a Soil Slope Phase that is identified as an E or F, or the map unit name is inclusive of 25% or greater slope, on the USDA Soil Survey for the County where the disturbance will occur.

(Part I.F.8)

8. *Construction activities* that have the potential to affect an *historic property*, unless there is documentation that such impacts have been resolved. The following documentation necessary to demonstrate eligibility with this requirement shall be maintained on site in accordance with Part II.C.2 of this permit and made available to the Department in accordance with Part VII.F of this permit:

   a. Documentation that the *construction activity* is not within an archeologically sensitive area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the construction site within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the construction site within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant.

      - 1-5 acres of disturbance - 20 feet
      - 5-20 acres of disturbance - 50 feet
      - 20+ acres of disturbance - 100 feet, or

   b. DEC consultation form sent to OPRHP, and copied to the NYS DEC Agency Historic Preservation Officer (APO), and
      (i) the State Environmental Quality Review (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
      (ii) documentation from OPRHP that the *construction activity* will result in No Impact; or
      (iii) documentation from OPRHP providing a determination of No Adverse Impact; or
      (iv) a Letter of Resolution signed by the owner/operator, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA); or

   c. Documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:
      (i) No Affect
      (ii) No Adverse Affect

(Part I.F.8.c.iii)

(iii) Executed Memorandum of Agreement, or

d. Documentation that:

(i) SHPA Section 14.09 has been completed by NYS DEC or another state agency.

9. *Discharges* from *construction activities* that are subject to an existing SPDES individual or general permit where a SPDES permit for *construction activity* has been terminated or denied; or where the *owner or operator* has failed to renew an expired individual permit.

Part II. OBTAINING PERMIT COVERAGE

A.Notice of Intent (NOI) Submittal

1. An *owner or operator* of a *construction activity* that is not subject to the requirements of a *regulated, traditional land use control MS4* must first prepare a SWPPP in accordance with all applicable requirements of this permit and then submit a completed NOI form to the Department in order to be authorized to *discharge* under this permit. An *owner or operator* shall use either the electronic (eNOI) or paper version of the NOI that the Department prepared. Both versions of the NOI are located on the Department's website (http://www.dec.ny.gov/). The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the following address.

NOTICE OF INTENT
NYS DEC, Bureau of Water Permits
625 Broadway, 4th Floor
Albany, New York 12233-3505

2. An *owner or operator* of a *construction activity* that is subject to the requirements of a *regulated, traditional land use control MS4* must first prepare a SWPPP in accordance with all applicable requirements of this permit and then have its SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department. The *owner or operator* shall have the "MS4 SWPPP Acceptance" form signed in accordance with Part VII.H., and then submit that form along with a completed NOI to the Department. An *owner or operator* shall use either the electronic (eNOI) or paper version of the NOI.

   The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the address in Part II.A.1.

(Part II.A.2)

The requirement for an *owner or operator* to have its SWPPP reviewed and accepted by the *MS4* prior to submitting the NOI to the Department does not apply to an *owner or operator* that is obtaining permit coverage in accordance with the requirements in Part II.E. (Change of *Owner or Operator*) or where the *owner or operator* of the *construction activity* is the *regulated, traditional land use control MS4*.

3. The *owner or operator* shall have the SWPPP preparer sign the "SWPPP Preparer Certification" statement on the NOI prior to submitting the form to the Department.

4. As of the date the NOI is submitted to the Department, the *owner or operator* shall make the NOI and SWPPP available for review and copying in accordance with the requirements in Part VII.F. of this permit.

B. Permit Authorization

1. An *owner or operator* shall not *commence construction activity* until their authorization to *discharge* under this permit goes into effect.

2. Authorization to *discharge* under this permit will be effective when the *owner or operator* has satisfied <u>all</u> of the following criteria:

   a. project review pursuant to the State Environmental Quality Review Act ("SEQRA") have been satisfied, when SEQRA is applicable. See the Department's website (http://www.dec.ny.gov/) for more information,

   b. where required, all necessary Department permits subject to the *Uniform Procedures Act ("UPA")* (see 6 NYCRR Part 621) have been obtained, unless otherwise notified by the Department pursuant to 6 NYCRR 621.3(a)(4). *Owners or operators* of *construction activities* that are required to obtain *UPA* permits must submit a preliminary SWPPP to the appropriate DEC Permit Administrator at the Regional Office listed in Appendix F at the time all other necessary *UPA* permit applications are submitted. The preliminary SWPPP must include sufficient information to demonstrate that the *construction activity* qualifies for authorization under this permit,

   c. the final SWPPP has been prepared, and

   d. a complete NOI has been submitted to the Department in accordance with the requirements of this permit.

3. An *owner or operator* that has satisfied the requirements of Part II.B.2 above

(Part II.B.3)

will be authorized to *discharge* stormwater from their *construction activity* in accordance with the following schedule:

a. For *construction activities* that are not subject to the requirements of a *regulated, traditional land use control MS4*:

(i) Five (5) business days from the date the Department receives a complete electronic version of the NOI (eNOI) for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.; or

(ii) Sixty (60) business days from the date the Department receives a complete NOI (electronic or paper version) for *construction activities* with a SWPPP that has not been prepared in conformance with the design criteria in technical standard referenced in Part III.B.1. or, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C., the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, or;

(iii) Ten (10) business days from the date the Department receives a complete paper version of the NOI for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.

b. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*:

(i) Five (5) business days from the date the Department receives both a complete electronic version of the NOI (eNOI) and signed "*MS4* SWPPP Acceptance" form, or

(ii) Ten (10) business days from the date the Department receives both a complete paper version of the NOI and signed "MS4 SWPPP Acceptance" form.

4. The Department may suspend or deny an *owner's or operator's* coverage

under this permit if the Department determines that the SWPPP does not meet the permit requirements. In accordance with statute, regulation, and the terms and conditions of this permit, the Department may deny coverage under this permit and require submittal of an application for an individual SPDES permit based on a review of the NOI or other information pursuant to Part II.

5. Coverage under this permit authorizes stormwater *discharges* from only those areas of disturbance that are identified in the NOI. If an *owner or operator* wishes to have stormwater *discharges* from future or additional areas of disturbance authorized, they must submit a new NOI that addresses that phase of the development, unless otherwise notified by the Department. The *owner or operator* shall not *commence construction activity* on the future or additional areas until their authorization to *discharge* under this permit goes into effect in accordance with Part II.B. of this permit.

C. General Requirements For Owners or Operators With Permit Coverage

1. The *owner or operator* shall ensure that the provisions of the SWPPP are implemented from the *commencement of construction activity* until all areas of disturbance have achieved *final stabilization* and the Notice of Termination ("NOT") has been submitted to the Department in accordance with Part V. of this permit. This includes any changes made to the SWPPP pursuant to Part III.A.4. of this permit.

2. The *owner or operator* shall maintain a copy of the General Permit (GP-0-15-002), NOI, *NOI Acknowledgment Letter*, SWPPP, MS4 SWPPP Acceptance form, inspection reports, and all documentation necessary to demonstrate eligibility with this permit at the construction site until all disturbed areas have achieved *final stabilization* and the NOT has been submitted to the Department. The documents must be maintained in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection.

3. The *owner or operator* of a *construction activity* shall not disturb greater than five (5) acres of soil at any one time without prior written authorization from the Department or, in areas under the jurisdiction of a *regulated, traditional land use control MS4,* the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*). At a minimum, the *owner or operator* must comply with the following requirements in order to be authorized to disturb greater than five (5) acres of soil at any one time:
   a. The *owner or operator* shall

have a *qualified inspector* conduct **at least** two (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

b. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.

c. The *owner or operator* shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.

d. The *owner or operator* shall install any additional site specific practices needed to protect water quality.

e. The *owner or operator* shall include the requirements above in their SWPPP.

4. In accordance with statute, regulations, and the terms and conditions of this permit, the Department may suspend or revoke an *owner's or operator's* coverage under this permit at any time if the Department determines that the SWPPP does not meet the permit requirements. Upon a finding of significant non-compliance with the practices described in the SWPPP or violation of this permit, the Department may order an immediate stop to all activity at the site until the non-compliance is remedied. The stop work order shall be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.

5. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*, the *owner or operator* shall notify the *regulated, traditional land use control MS4* in writing of any planned amendments or modifications to the post-construction stormwater management practice component of the SWPPP required by Part III.A. 4. and 5. of this permit. Unless otherwise notified by the *regulated, traditional land use control MS4*, the *owner or operator* shall have the SWPPP amendments or modifications reviewed and accepted by the *regulated, traditional land use control MS4* prior to commencing construction of the post-construction stormwater management practice

(Part II.D)

D. Permit Coverage for Discharges Authorized Under GP-0-10-001

1. Upon renewal of SPDES General Permit for Stormwater Discharges from *Construction Activity* (Permit No. GP-0-10-001), an *owner or operator* of *a construction activity* with coverage under GP-0-10-001, as of the effective date of GP-0-15-002, shall be authorized to *discharge* in accordance with GP-0-15-002, unless otherwise notified by the Department.

   An *owner or operator* may continue to implement the technical/design components of the post-construction stormwater management controls provided that such design was done in conformance with the technical standards in place at the time of initial project authorization. However, they must comply with the other, non-design provisions of GP-0-15-002.

E. Change of *Owner or Operator*

1. When property ownership changes or when there is a change in operational control over the construction plans and specifications, the original *owner or operator* must notify the new *owner or operator*, <u>in writing,</u> of the requirement to obtain permit coverage by submitting a NOI with the Department. Once the new *owner or operator* obtains permit coverage, the original *owner or operator* shall then submit a completed NOT with the name and permit identification number of the new *owner or operator* to the Department at the address in Part II.A.1. of this permit. If the original *owner or operator* maintains ownership of a portion of the *construction activity* and will disturb soil, they must maintain their coverage under the permit.

Permit coverage for the new *owner or operator* will be effective as of the date the Department receives a complete NOI, provided the original *owner or operator* was not subject to a sixty (60) business day authorization period that has not expired as of the date the Department receives the NOI from the new *owner or operator*.

(Part III)

Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

A. General SWPPP Requirements

1. A SWPPP shall be prepared and implemented by the *owner or operator* of each *construction activity* covered by this permit. The SWPPP must document the selection, design, installation, implementation and maintenance of the control measures and practices that will be used to meet the effluent limitations in Part I.B. of this permit and where applicable, the post-construction stormwater management practice requirements in Part I.C. of this permit. The SWPPP shall be prepared prior to the submittal of the NOI. The NOI shall be submitted to the Department prior to the *commencement of construction activity*. A copy of the completed, final NOI shall be included in the SWPPP.

2. The SWPPP shall describe the erosion and sediment control practices and where required, post-construction stormwater management practices that will be used and/or constructed to reduce the *pollutants* in stormwater *discharges* and to assure compliance with the terms and conditions of this permit. In addition, the SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater *discharges*.

3. All SWPPPs that require the post-construction stormwater management practice component shall be prepared by a *qualified professional* that is knowledgeable in the principles and practices of stormwater management and treatment.

4. The *owner or operator* must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the *owner or operator* shall amend the SWPPP:

   a. whenever the current provisions prove to be ineffective in minimizing *pollutants* in stormwater *discharges* from the site;

   b. whenever there is a change in design, construction, or operation at the construction site that has or could have an effect on the *discharge* of *pollutants*; and

   c. to address issues or deficiencies identified during an inspection by the *qualified inspector,* the Department or other regulatory authority.

5. The Department may notify the *owner or operator* at any time that the

(Part III.A.5)

SWPPP does not meet one or more of the minimum requirements of this permit. The notification shall be in writing and identify the provisions of the SWPPP that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by the Department, the *owner or operator* shall make the required changes to the SWPPP and submit written notification to the Department that the changes have been made. If the *owner or operator* does not respond to the Department's comments in the specified time frame, the Department may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.C.4. of this permit.

6. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The *owner or operator* shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the *trained contractor.* The *owner or operator* shall ensure that at least one *trained contractor* is on site on a daily basis when soil disturbance activities are being performed.

   The *owner or operator* shall have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before they commence any *construction activity*:

   > "I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater *discharge*s from *construction activities* and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

   In addition to providing the certification statement above, the certification page must also identify the specific elements of the SWPPP that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the

trained contractor responsible for SWPPP implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* shall attach the certification statement(s) to the copy of the SWPPP that is maintained at the construction site. If new or additional contractors are hired to implement measures identified in the SWPPP after construction has commenced, they must also sign the certification statement and provide the information listed above.

7. For projects where the Department requests a copy of the SWPPP or inspection reports, the *owner or operator* shall submit the documents in both electronic (PDF only) and paper format within five (5) business days, unless otherwise notified by the Department.

B. Required SWPPP Contents

1. Erosion and sediment control component - All SWPPPs prepared pursuant to this permit shall include erosion and sediment control practices designed in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Where erosion and sediment control practices are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must demonstrate *equivalence* to the technical standard. At a minimum, the erosion and sediment control component of the SWPPP shall include the following:

   a. Background information about the scope of the project, including the location, type and size of project;

   b. A site map/construction drawing(s) for the project, including a general location map. At a minimum, the site map shall show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours ; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the stormwater *discharge*(s);

   c. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG);

   d. A construction phasing plan and sequence of operations describing the intended order of *construction activities*, including clearing and grubbing, excavation and grading, utility and infrastructure installation and any other

activity at the site that results in soil disturbance;

e. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented;

f. A temporary and permanent soil stabilization plan that meets the requirements of this general permit and the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, for each stage of the project, including initial land clearing and grubbing to project completion and achievement of *final stabilization*;

g. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice;

h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any temporary sediment basins and structural practices that will be used to divert flows from exposed soils;

i. A maintenance inspection schedule for the contractor(s) identified in Part III.A.6. of this permit, to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection schedule shall be in accordance with the requirements in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016;

j. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the stormwater *discharges*;

k. A description and location of any stormwater *discharges* associated with industrial activity other than construction at the site, including, but not limited to, stormwater *discharges* from asphalt plants and concrete plants located on the construction site; and

l. Identification of any elements of the design that are not in conformance with the design criteria in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Include the reason for the deviation or alternative design

and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. Post-construction stormwater management practice component – The *owner or operator* of any construction project identified in Table 2 of Appendix B as needing post-construction stormwater management practices shall prepare a SWPPP that includes practices designed in conformance with the applicable *sizing criteria* in Part I.C.2.a., c. or d. of this permit and the *performance criteria* in the technical standard, New York State Stormwater Management Design Manual dated January 2015

   Where post-construction stormwater management practices are not designed in conformance with the *performance criteria* in the technical standard, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

   The post-construction stormwater management practice component of the SWPPP shall include the following:

   a. Identification of all post-construction stormwater management practices to be constructed as part of the project. Include the dimensions, material specifications and installation details for each post-construction stormwater management practice;

   b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice;

   c. A Stormwater Modeling and Analysis Report that includes:

      (i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points;

      (ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and post-construction stormwater management practices;

      (iii) Results of stormwater modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre and post-development runoff rates and volumes for the different storm events;

      (iv) Summary table, with supporting calculations, which demonstrates

that each post-construction stormwater management practice has been designed in conformance with the *sizing criteria* included in the Design Manual;

(v) Identification of any *sizing criteria* that is not required based on the requirements included in Part I.C. of this permit; and

(vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the Design Manual. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the Design Manual;

d. Soil testing results and locations (test pits, borings);

e. Infiltration test results, when required; and

f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice.

3. Enhanced Phosphorus Removal Standards - All construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the applicable *sizing criteria* in Part I.C.2. b., c. or d. of this permit and the *performance criteria,* Enhanced Phosphorus Removal Standards included in the Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a - 2.f. above.

C. Required SWPPP Components by Project Type

Unless otherwise notified by the Department, *owners or operators* of *construction activities* identified in Table 1 of Appendix B are required to prepare a SWPPP that only includes erosion and sediment control practices designed in conformance with Part III.B.1 of this permit. *Owners or operators* of the *construction activities* identified in Table 2 of Appendix B shall prepare a SWPPP that also includes post-construction stormwater management practices designed in conformance with Part III.B.2 or 3 of this permit.

Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS

A. General Construction Site Inspection and Maintenance Requirements

1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures) and all post-construction stormwater management practices identified in the SWPPP are inspected and maintained in accordance with Part IV.B. and C. of this permit.

2. The terms of this permit shall not be construed to prohibit the State of New York from exercising any authority pursuant to the ECL, common law or federal law, or prohibit New York State from taking any measures, whether civil or criminal, to prevent violations of the laws of the State of New York, or protect the public health and safety and/or the environment.

B. Contractor Maintenance Inspection Requirements

1. The *owner or operator* of each *construction activity* identified in Tables 1 and 2 of Appendix B shall have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor shall begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.

2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *trained contractor* can stop conducting the maintenance inspections. The *trained contractor* shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of this permit as soon as soil disturbance activities resume.

3. For construction sites where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* <u>and</u> all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

C. Qualified Inspector Inspection Requirements

(Part IV.C)

The *owner or operator* shall have a *qualified inspector* conduct site inspections in conformance with the following requirements:

[Note: The *trained contractor* identified in Part III.A.6. and IV.B. of this permit **cannot** conduct the *qualified inspector* site inspections unless they meet the *qualified inspector* qualifications included in Appendix A. In order to perform these inspections, the *trained contractor* would have to be a:

- licensed Professional Engineer,
- Certified Professional in Erosion and Sediment Control (CPESC),
- Registered Landscape Architect, or
- someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity].

1. A *qualified inspector* shall conduct site inspections for all *construction activities* identified in Tables 1 and 2 of Appendix B, <u>with the exception of</u>:

   a. the construction of a single family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is <u>not</u> located in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E;

   b. the construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is <u>not</u> located in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E;

   c. construction on agricultural property that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres; and

   d. *construction activities* located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

2. Unless otherwise notified by the Department, the *qualified inspector* shall conduct site inspections in accordance with the following timetable:

   a. For construction sites where soil disturbance activities are on-going, the *qualified inspector* shall conduct a site inspection at least once every seven (7) calendar days.

   b. For construction sites where soil disturbance activities are on-going and

the *owner or operator* has received authorization in accordance with Part II.C.3 to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

c. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* shall conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4,* the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to reducing the frequency of inspections.

d. For construction sites where soil disturbance activities have been shut down with partial project completion, the *qualified inspector* can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* <u>and</u> all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4,* the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* shall have the *qualified inspector* perform a final inspection and certify that all disturbed areas have achieved *final stabilization,* <u>and</u> all temporary, structural erosion and sediment control measures have been removed*;* and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the "*Final Stabilization*" and "Post-Construction Stormwater Management Practice" certification statements on the NOT. The *owner or operator* shall then submit the completed NOT form to the address in Part II.A.1 of this permit.

e. For construction sites that directly *discharge* to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall

be separated by a minimum of two (2) full calendar days.

3. At a minimum, the *qualified inspector* shall inspect all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved *final stabilization,* all points of *discharge* to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site, and all points of *discharge* from the construction site.

4. The *qualified inspector* shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

a. Date and time of inspection;

b. Name and title of person(s) performing inspection;

c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;

d. A description of the condition of the runoff at all points of *discharge* from the construction site. This shall include identification of any *discharges* of sediment from the construction site. Include *discharges* from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;

e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas. This shall include identification of any *discharges* of sediment to the surface waterbody;

f. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance;

g. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;

h. Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;

(Part IV.C.4.i)

i. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;

j. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s);

k. Identification and status of all corrective actions that were required by previous inspection; and

l. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *qualified inspector* shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.

5. Within one business day of the completion of an inspection, the *qualified inspector* shall notify the *owner or operator* and appropriate contractor or subcontractor identified in Part III.A.6. of this permit of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.

6. All inspection reports shall be signed by the *qualified inspector.* Pursuant to Part II.C.2. of this permit, the inspection reports shall be maintained on site with the SWPPP.

Part V. TERMINATION OF PERMIT COVERAGE

A. Termination of Permit Coverage

1. An *owner or operator* that is eligible to terminate coverage under this permit must submit a completed NOT form to the address in Part II.A.1 of this permit. The NOT form shall be one which is associated with this permit, signed in accordance with Part VII.H of this permit.

(Part V.A.2)

2. An *owner or operator* may terminate coverage when one or more the following conditions have been met:

   a. Total project completion - All *construction activity* identified in the SWPPP has been completed; and all areas of disturbance have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices have been constructed in conformance with the SWPPP and are operational;

   b. Planned shutdown with partial project completion - All soil disturbance activities have ceased; and all areas disturbed as of the project shutdown date have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational;

   c. A new *owner or operator* has obtained coverage under this permit in accordance with Part II.E. of this permit.

   d. The *owner or operator* obtains coverage under an alternative SPDES general permit or an individual SPDES permit.

3. For *construction activities* meeting subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *qualified inspector* perform a final site inspection prior to submitting the NOT. The *qualified inspector* shall, by signing the "*Final Stabilization*" and "Post-Construction Stormwater Management Practice certification statements on the NOT, certify that all the requirements in Part V.A.2.a. or b. of this permit have been achieved.

4. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4* and meet subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *regulated, traditional land use control MS4* sign the "MS4 Acceptance" statement on the NOT in accordance with the requirements in Part VII.H. of this permit. The *regulated, traditional land use control MS4* official, by signing this statement, has determined that it is acceptable for the *owner or operator* to submit the NOT in accordance with the requirements of this Part. The *regulated, traditional land use control MS4* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector*'s final site inspection certification(s) required in Part V.A.3. of this permit.

(Part V.A.5)

5. For *construction activities* that require post-construction stormwater management practices and meet subdivision 2a. of this Part, the *owner or operator* must, prior to submitting the NOT, ensure one of the following:

   a. the post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain such practice(s) have been deeded to the municipality in which the practice(s) is located,

   b. an executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s),

   c. for post-construction stormwater management practices that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record,

   d. for post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility; the *owner or operator* has policy and procedures in place that ensures operation and maintenance of the practices in accordance with the operation and maintenance plan.

Part VI. REPORTING AND RETENTION OF RECORDS

A. Record Retention

The *owner or operator* shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the Department receives a complete NOT submitted in accordance with Part V. of this general permit.

B. Addresses

With the exception of the NOI, NOT, and MS4 SWPPP Acceptance form (which must be submitted to the address referenced in Part II.A.1 of this permit), all written correspondence requested by the Department, including individual permit applications, shall be sent to the address of the appropriate DOW Water (SPDES) Program contact at the Regional Office listed in Appendix F.

Part VII. STANDARD PERMIT CONDITIONS

A. Duty to Comply

The *owner or operator* must comply with all conditions of this permit. All contractors and subcontractors associated with the project must comply with the terms of the SWPPP. Any non-compliance with this permit constitutes a violation of the Clean Water Act (CWA) and the ECL and is grounds for an enforcement action against the *owner or operator* and/or the contractor/subcontractor; permit revocation, suspension or modification; or denial of a permit renewal application. Upon a finding of significant non-compliance with this permit or the applicable SWPPP, the Department may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order shall be in writing, shall describe the non-compliance in detail, and shall be sent to the *owner or operator*.

If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE). *Construction activity* shall not resume until written permission to do so has been received from the RWE.

B. Continuation of the Expired General Permit

This permit expires five (5) years from the effective date. If a new general permit is not issued prior to the expiration of this general permit, an *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the terms and conditions of this general permit, if it is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, until a new general permit is issued.

C. Enforcement

Failure of the *owner or operator,* its contractors, subcontractors, agents and/or assigns to strictly adhere to any of the permit requirements contained herein shall constitute a violation of this permit. There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines of up to $37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for an *owner or operator* in an enforcement action that it would have been necessary to halt or reduce the *construction activity* in order to maintain compliance with the conditions of this permit.

(Part VII.E)

E. Duty to Mitigate

The *owner or operator* and its contractors and subcontractors shall take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

F. Duty to Provide Information

The *owner or operator* shall furnish to the Department, within a reasonable specified time period of a written request, all documentation necessary to demonstrate eligibility and any information to determine compliance with this permit or to determine whether cause exists for modifying or revoking this permit, or suspending or denying coverage under this permit, in accordance with the terms and conditions of this permit. The NOI, SWPPP and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five (5) business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

G. Other Information

When the *owner or operator* becomes aware that they failed to submit any relevant facts, or submitted incorrect information in the NOI or in any of the documents required by this permit , or have made substantive revisions to the SWPPP (e.g. the scope of the project changes significantly, the type of post-construction stormwater management practice(s) changes, there is a reduction in the sizing of the post-construction stormwater management practice, or there is an increase in the disturbance area or *impervious area*), which were not reflected in the original NOI submitted to the Department, they shall promptly submit such facts or information to the Department using the contact information in Part II.A. of this permit. Failure of the *owner or operator* to correct or supplement any relevant facts within five (5) business days of becoming aware of the deficiency shall constitute a violation of this permit.

H. Signatory Requirements

1. All NOIs and NOTs shall be signed as follows:

   a. For a corporation these forms shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

      (i) a president, secretary, treasurer, or vice-president of the

corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or

(ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship these forms shall be signed by a general partner or the proprietor, respectively; or

c. For a municipality, State, Federal, or other public agency these forms shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

(i) the chief executive officer of the agency, or

(ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. The SWPPP and other information requested by the Department shall be signed by a person described in Part VII.H.1. of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described in Part VII.H.1. of this permit;

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position of *equivalent* responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named

individual or any individual occupying a named position) and,

c. The written authorization shall include the name, title and signature of the authorized representative and be attached to the SWPPP.

3. All inspection reports shall be signed by the *qualified inspector* that performs the inspection.

4. The MS4 SWPPP Acceptance form shall be signed by the principal executive officer or ranking elected official from the *regulated, traditional land use control MS4,* or by a duly authorized representative of that person.

   It shall constitute a permit violation if an incorrect and/or improper signatory authorizes any required forms, SWPPP and/or inspection reports.

I. Property Rights

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. *Owners or operators* must obtain any applicable conveyances, easements, licenses and/or access to real property prior to *commencing construction activity*.

J. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

K. Requirement to Obtain Coverage Under an Alternative Permit

1. The Department may require any *owner or operator* authorized by this permit to apply for and/or obtain either an individual SPDES permit or another SPDES general permit. When the Department requires any *discharge*r authorized by a general permit to apply for an individual SPDES permit, it shall notify the *discharge*r in writing that a permit application is required. This notice shall include a brief statement of the reasons for this decision, an application form, a statement setting a time frame for the *owner or operator* to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from *owner or operator* receipt of the notification letter, whereby the authorization to

discharge under this general permit shall be terminated. Applications must be submitted to the appropriate Permit Administrator at the Regional Office. The Department may grant additional time upon demonstration, to the satisfaction of the Department, that additional time to apply for an alternative authorization is necessary or where the Department has not provided a permit determination in accordance with Part 621 of this Title.

2. When an individual SPDES permit is issued to a discharger authorized to *discharge* under a general SPDES permit for the same *discharge*(s), the general permit authorization for outfalls authorized under the individual SPDES permit is automatically terminated on the effective date of the individual permit unless termination is earlier in accordance with 6 NYCRR Part 750.

L. Proper Operation and Maintenance

The *owner or operator* shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the *owner or operator* to achieve compliance with the conditions of this permit and with the requirements of the SWPPP.

M. Inspection and Entry

The *owner or operator* shall allow an authorized representative of the Department, EPA, applicable county health department, or, in the case of a construction site which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the *owner's or operator's* premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;

2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment), practices or operations regulated or required by this permit.

4. Sample or monitor at reasonable times, for purposes of assuring permit compliance or as otherwise authorized by the Act or ECL, any substances or parameters at any location.

N. Permit Actions

This permit may, at any time, be modified, suspended, revoked, or renewed by the Department in accordance with 6 NYCRR Part 621. The filing of a request by the *owner or operator* for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not limit, diminish and/or stay compliance with any terms of this permit.

O. Definitions

Definitions of key terms are included in Appendix A of this permit.

P. Re-Opener Clause

1. If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with *construction activity* covered by this permit, the *owner or operator* of such discharge may be required to obtain an individual permit or alternative general permit in accordance with Part VII.K. of this permit or the permit may be modified to include different limitations and/or requirements.

2. Any Department initiated permit modification, suspension or revocation will be conducted in accordance with 6 NYCRR Part 621, 6 NYCRR 750-1.18, and 6 NYCRR 750-1.20.

Q. Penalties for Falsification of Forms and Reports

In accordance with 6NYCRR Part 750-2.4 and 750-2.5, any person who knowingly makes any false material statement, representation, or certification in any application, record, report or other document filed or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished in accordance with ECL §71-1933 and or Articles 175 and 210 of the New York State Penal Law.

R. Other Permits

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

APPENDIX A

Definitions

Alter Hydrology from Pre to Post-Development Conditions - means the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

Combined Sewer - means a sewer that is designed to collect and convey both “sewage” and “stormwater”.

Commence (Commencement of) Construction Activities - means the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the SWPPP. See definition for “*Construction Activity(ies)*” also.

***Construction Activity*(ies) -** means any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

Direct Discharge (to a specific surface waterbody) - means that runoff flows from a construction site by overland flow and the first point of discharge is the specific surface waterbody, or runoff flows from a construction site to a separate storm sewer system and the first point of discharge from the separate storm sewer system is the specific surface waterbody.

Discharge(s) - means any addition of any pollutant to waters of the State through an outlet or point source.

Environmental Conservation Law (ECL) - means chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law.

Equivalent (Equivalence) – means that the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

Final Stabilization - means that all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other equivalent stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied

on all disturbed areas that are not covered by permanent structures, concrete or pavement.

General SPDES permit - means a SPDES permit issued pursuant to 6 NYCRR Part 750-1.21 and Section 70-0117 of the ECL authorizing a category of discharges.

Groundwater(s) - means waters in the saturated zone. The saturated zone is a subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere. Although the zone may contain gas-filled interstices or interstices filled with fluids other than water, it is still considered saturated.

Historic Property – means any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State
or National Registers of Historic Places.

Impervious Area (Cover) - means all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

Infeasible – means not technologically possible, or not economically practicable and achievable in light of best industry practices.

Larger Common Plan of Development or Sale - means a contiguous area where multiple separate and distinct *construction activities* are occurring, or will occur, under one plan. The term “plan” in “larger common plan of development or sale” is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQRA) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating that *construction activities* may occur on a specific plot.

For discrete construction projects that are located within a larger common plan of development or sale that are at least 1/4 mile apart, each project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same “common plan” is not concurrently being disturbed.

Minimize – means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer (MS4) - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters,

ditches, man-made
channels, or storm drains):

(i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters of the State*;*

(ii) Designed or used for collecting or conveying stormwater;

(iii) Which is not a *combined sewer*; and

(iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

National Pollutant Discharge Elimination System (NPDES) - means the national system for the issuance of wastewater and stormwater permits under the Federal Water Pollution Control Act (Clean Water Act).

New Development – means any land disturbance that does not meet the definition of Redevelopment Activity included in this appendix.

NOI Acknowledgment Letter - means the letter that the Department sends to an owner or operator to acknowledge the Department's receipt and acceptance of a complete Notice of Intent. This letter documents the owner's or operator's authorization to discharge in accordance with the general permit for stormwater discharges from *construction activity*.

Owner or Operator - means the person, persons or legal entity which owns or leases the property on which the *construction activity* is occurring; and/or an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications.

Performance Criteria – means the design criteria listed under the "Required Elements" sections in Chapters 5, 6 and 10 of the technical standard, New York State Stormwater Management Design Manual, dated January 2015. It does not include the Sizing Criteria (i.e. WQv, RRv, Cpv, Qp and Qf) in Part I.C.2. of the permit.

Pollutant - means dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast discharged into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq .

Qualified Inspector - means a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, or other Department endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any post-construction stormwater management practices that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

Qualified Professional - means a person that is knowledgeable in the principles and practices of stormwater management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other Department endorsed individual(s). Individuals preparing SWPPPs that require the post-construction stormwater management practice component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the SWPPP that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York..

Redevelopment Activity(ies) – means the disturbance and reconstruction of existing impervious area, including impervious areas that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

Regulated, Traditional Land Use Control MS4 - means a city, town or village with land use control authority that is required to gain coverage under New York State DEC's SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s).

Routine Maintenance Activity - means *construction activity* that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, including, but not limited to:

- Re-grading of gravel roads or parking lots,
- Stream bank restoration projects (does not include the placement of spoil material),
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and hydraulic capacity of the ditch,
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch),
- Placement of aggregate shoulder backing that makes the transition between the road shoulder and the ditch or embankment,
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material,
- Long-term use of equipment storage areas at or near highway maintenance facilities,
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or embankment,
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts.

Site limitations – means site conditions that prevent the use of an infiltration technique and or infiltration of the total WQv. Typical site limitations include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of site limitations shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

Sizing Criteria – means the criteria included in Part I.C.2 of the permit that are used to size post-construction stormwater management control practices. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), Overbank Flood (Qp), and Extreme Flood (Qf).

State Pollutant Discharge Elimination System (SPDES) - means the system established pursuant to Article 17 of the ECL and 6 NYCRR Part 750 for issuance of permits authorizing discharges to the waters of the state.

Steep Slope – means land area with a Soil Slope Phase that is identified as an E or F, or

the map unit name is inclusive of 25% or greater slope, on the United States Department of Agriculture ("USDA") Soil Survey for the County where the disturbance will occur.

Surface Waters of the State - shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

Temporarily Ceased – means that an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

Temporary Stabilization - means that exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

Total Maximum Daily Loads (TMDLs) - A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and nonpoint sources. It is a calculation of the maximum amount of a pollutant that a waterbody can receive on a daily basis and still meet *water quality standards*, and an allocation of that amount to the pollutant's sources. A TMDL stipulates wasteload allocations (WLAs) for point source discharges, load allocations (LAs) for nonpoint sources, and a margin of safety (MOS).

Trained Contractor - means an employee from the contracting (construction) company, identified in Part III.A.6., that has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.6., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity).

The *trained contractor* is responsible for the day to day implementation of the SWPPP.

Uniform Procedures Act (UPA) Permit - means a permit required under 6 NYCRR Part

621 of the Environmental Conservation Law (ECL), Article 70.

Water Quality Standard - means such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

APPENDIX B

Required SWPPP Components by Project Type

Table 1
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following construction activities that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres: • Single family home not located in one of the watersheds listed in Appendix C or not *directly discharging* to one of the 303(d) segments listed in Appendix E • Single family residential subdivisions with 25% or less impervious cover at total site build-out and not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E • Construction of a barn or other agricultural building, silo, stock yard or pen.
The following construction activities that involve soil disturbances of one (1) or more acres of land: • Installation of underground, linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains • Environmental enhancement projects, such as wetland mitigation projects, stormwater retrofits and stream restoration projects • Bike paths and trails • Sidewalk construction projects that are not part of a road/ highway construction or reconstruction project • Slope stabilization projects • Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics • Spoil areas that will be covered with vegetation • Land clearing and grading for the purposes of creating vegetated open space (i.e. recreational parks, lawns, meadows, fields), excluding projects that *alter hydrology from pre to post development* conditions • Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious area* and do not *alter hydrology from pre to post development* conditions • Demolition project where vegetation will be established and no redevelopment is planned • Overhead electric transmission line project that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover* • Structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State", excluding projects that involve soil disturbances of less than five acres and construction activities that include the construction or reconstruction of impervious area
The following construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land: • All construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

Table 2
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Single family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% impervious cover at total site build-out
- Single family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a larger common plan of development or sale that will ultimately disturb five or more acres of land
- Multi-family residential developments; includes townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Airports
- Amusement parks
- Campgrounds
- Cemeteries that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other agricultural building(e.g. silo) and structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" that include the construction or reconstruction of *impervious area*, excluding projects that involve soil disturbances of less than five acres.
- Golf courses
- Institutional, includes hospitals, prisons, schools and colleges
- Industrial facilities, includes industrial parks
- Landfills
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTW's and water treatment plants
- Office complexes
- Sports complexes
- Racetracks, includes racetracks with earthen (dirt) surface
- Road construction or reconstruction
- Parking lot construction or reconstruction
- Athletic fields (natural grass) that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations and well drilling pads, surfaced with *impervious cover,* and constructed as part of an over-head electric transmission line project , wind-power project, cell tower project, oil or gas well drilling project, sewer or water main project or other linear utility project
- All other construction activities that include the construction or reconstruction of *impervious area* <u>or</u> *alter the hydrology from pre to post development* conditions, <u>and</u> are not listed in Table 1

APPENDIX C

Watersheds Where Enhanced Phosphorus Removal Standards Are Required

Watersheds where *owners or operators* of construction activities identified in Table 2 of Appendix B must prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the technical standard, New York State Stormwater Management Design Manual ("Design Manual").

- Entire New York City Watershed located east of the Hudson River **-** Figure 1
- Onondaga Lake Watershed **-** Figure 2
- Greenwood Lake Watershed **-**Figure 3
- Oscawana Lake Watershed – Figure 4
- Kinderhook Lake Watershed – Figure 5

Figure 1 - New York City Watershed East of the Hudson

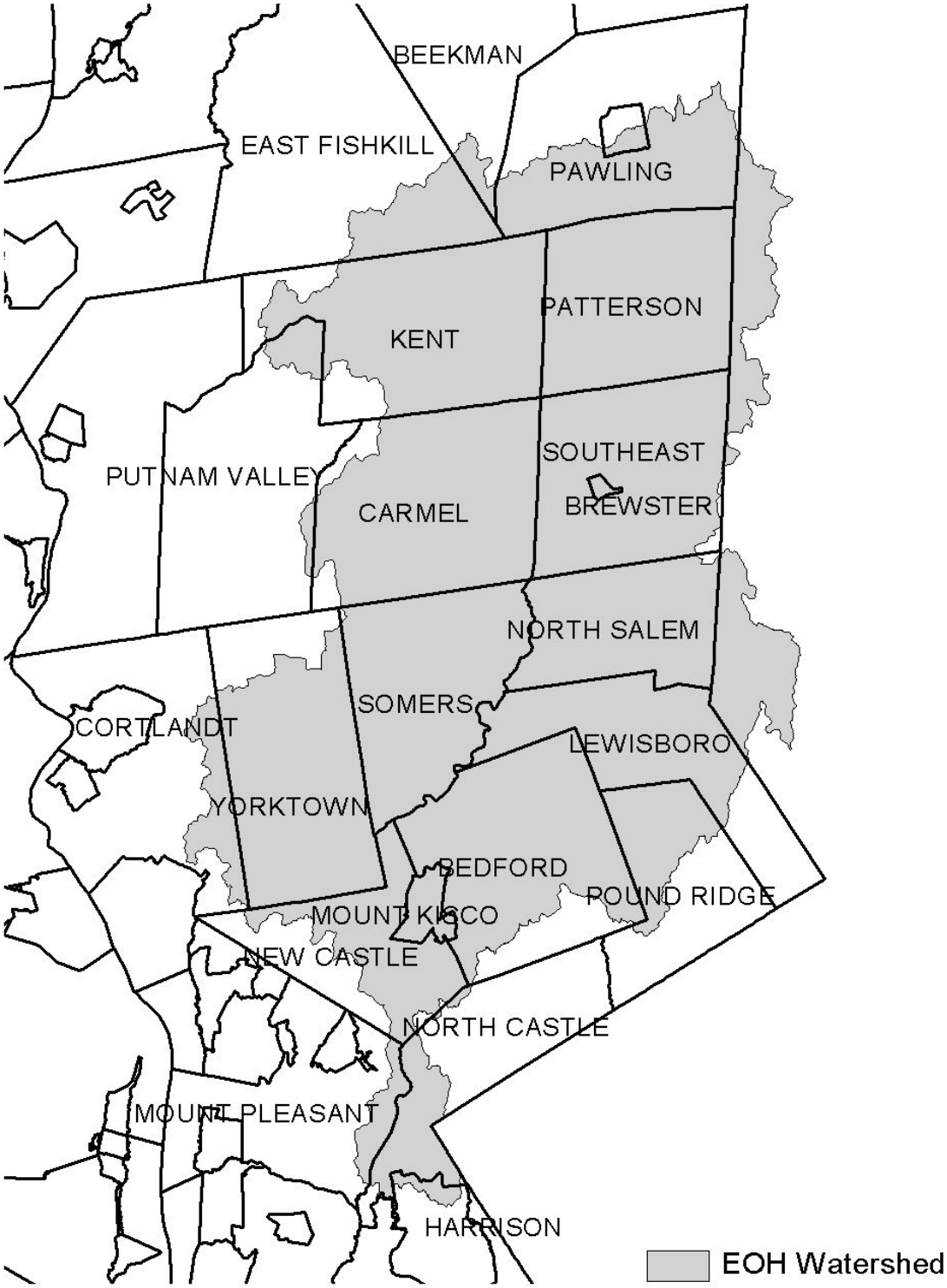


Figure 2 - Onondaga Lake Watershed

Figure 3 - Greenwood Lake Watershed

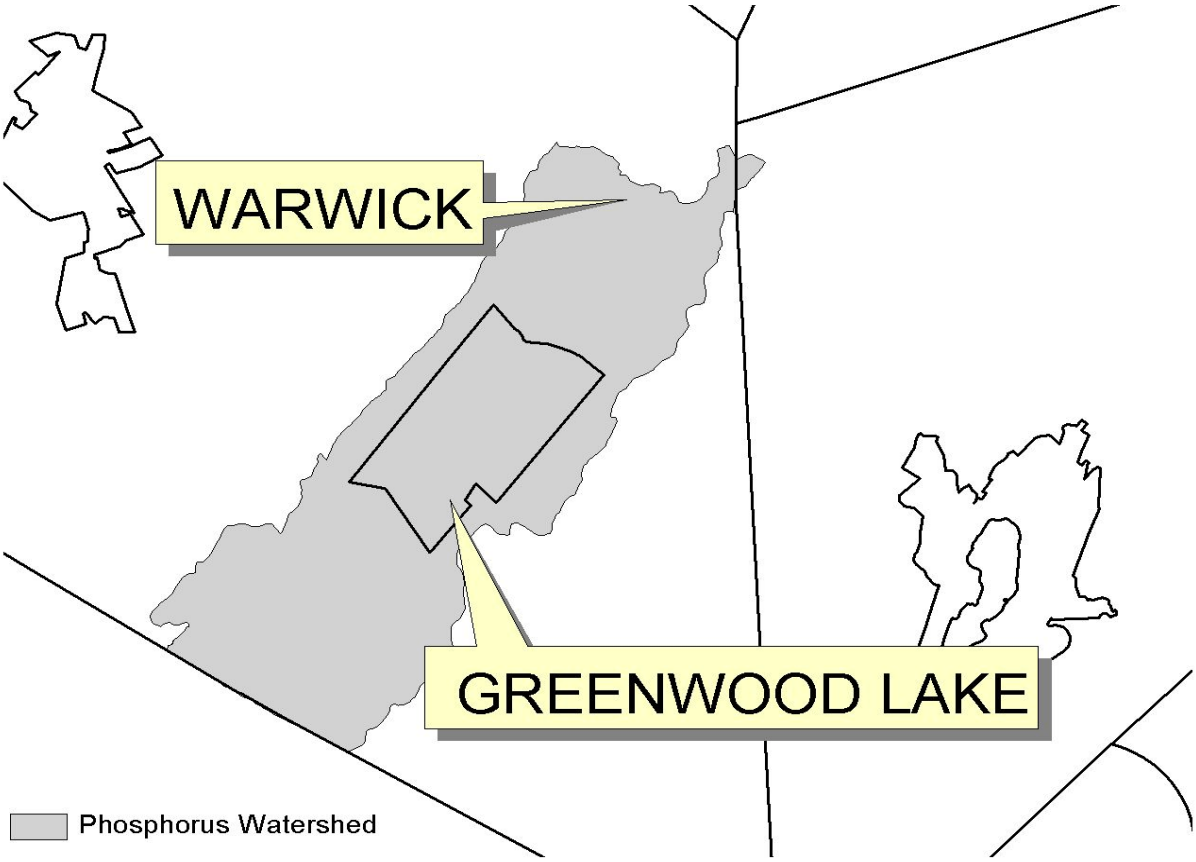


Figure 4 - Oscawana Lake Watershed

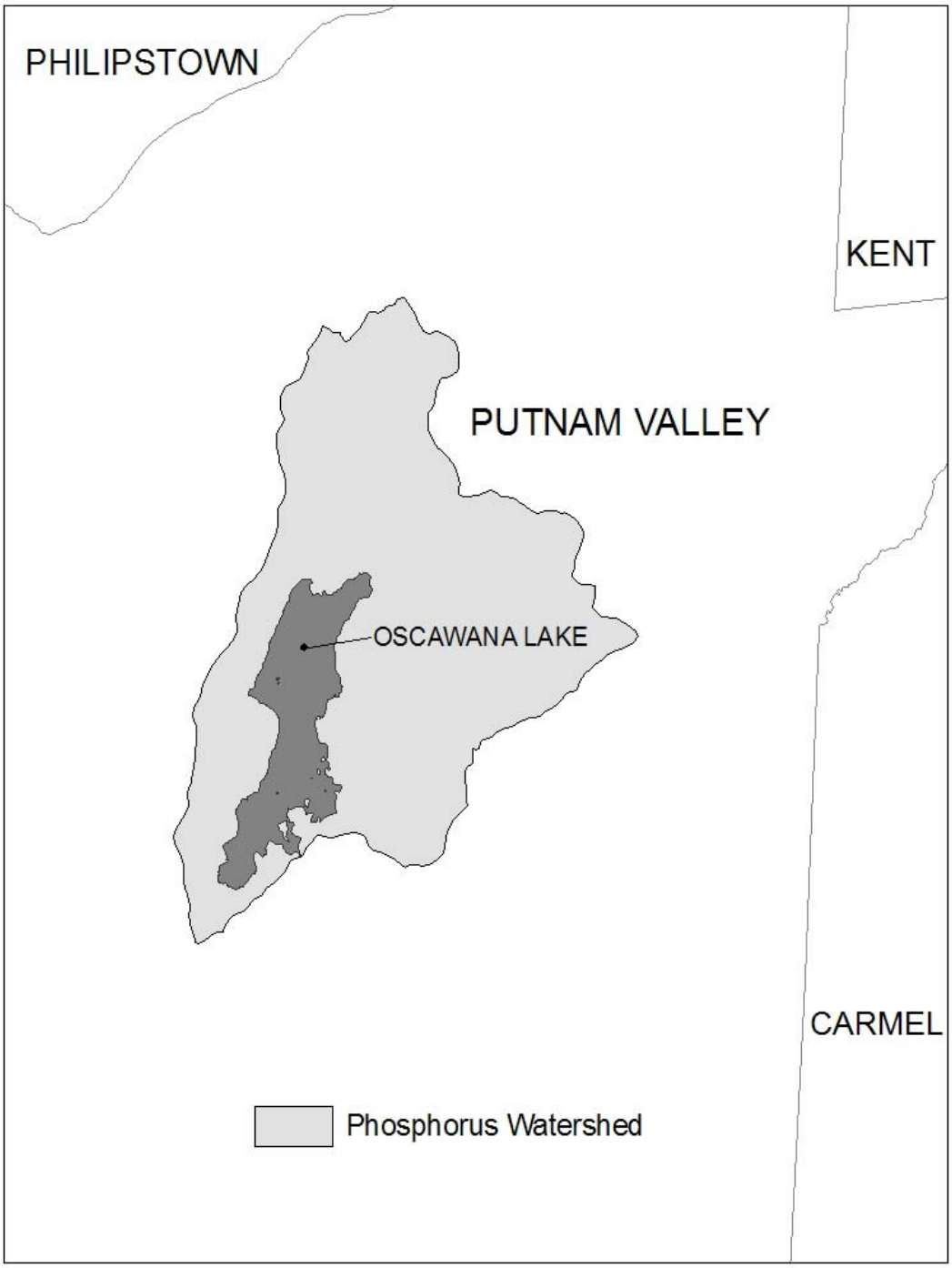
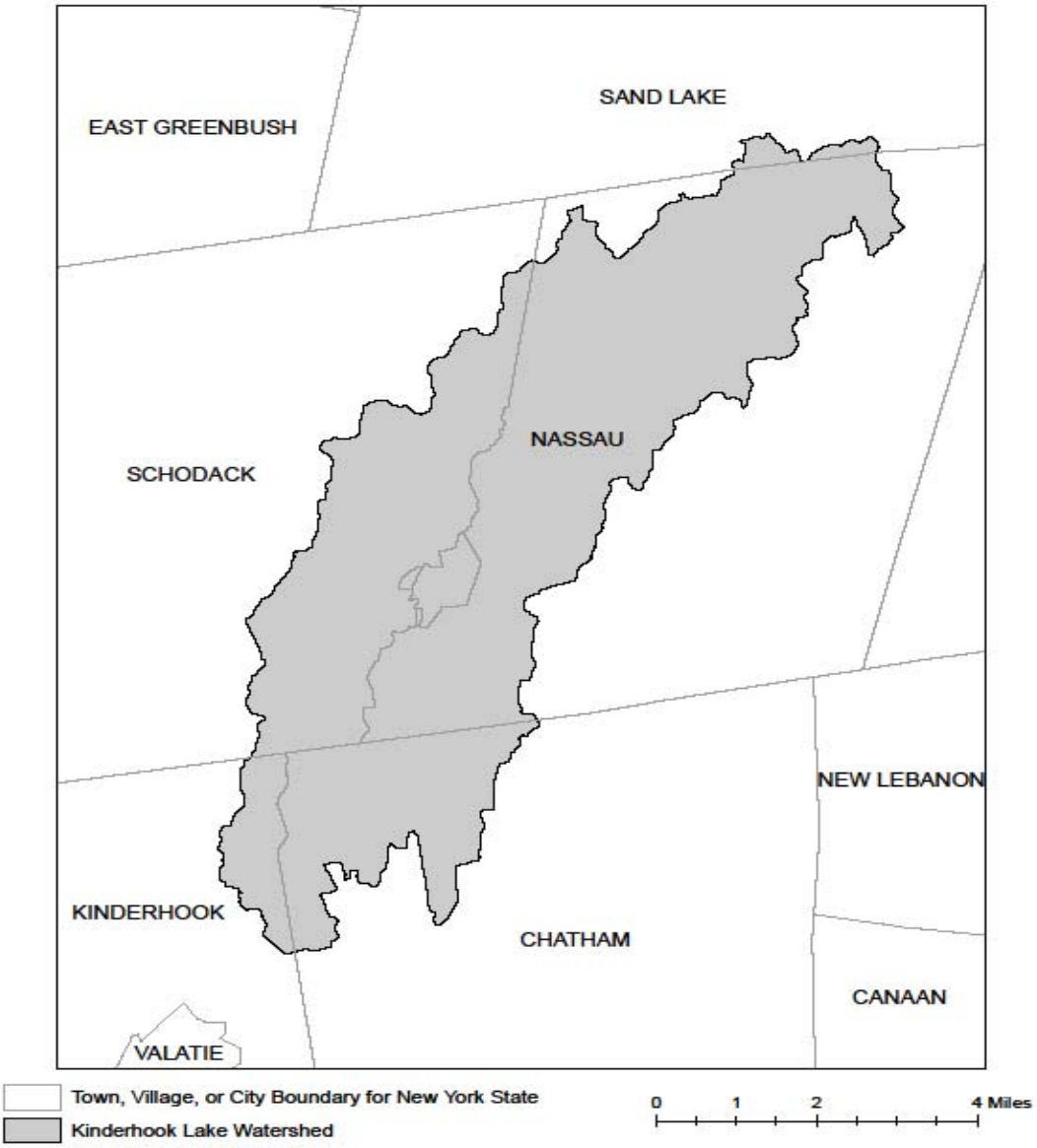


Figure 5: Kinderhook Lake Watershed



APPENDIX D

Watersheds where *owners or operators* of construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land must obtain coverage under this permit.

Entire New York City Watershed that is located east of the Hudson River **-** See Figure 1 in Appendix C

APPENDIX E

List of 303(d) segments impaired by pollutants related to *construction activity* (e.g. silt, sediment or nutrients). *Owners or operators* of single family home and single family residential subdivisions with 25% or less total impervious cover at total site build-out that involve soil disturbances of one or more acres of land, but less than 5 acres, and *directly discharge* to one of the listed segments below shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015.

COUNTY	WATERBODY	COUNTY	WATERBODY
Albany	Ann Lee (Shakers) Pond, Stump Pond	Greene	Sleepy Hollow Lake
Albany	Basic Creek Reservoir	Herkimer	Steele Creek tribs
Allegheny	Amity Lake, Saunders Pond	Kings	Hendrix Creek
Bronx	Van Cortlandt Lake	Lewis	Mill Creek/South Branch and tribs
Broome	Whitney Point Lake/Reservoir	Livingston	Conesus Lake
Broome	Fly Pond, Deer Lake	Livingston	Jaycox Creek and tribs
Broome	Minor Tribs to Lower Susquehanna (north)	Livingston	Mill Creek and minor tribs
		Livingston	Bradner Creek and tribs
Cattaraugus	Allegheny River/Reservoir	Livingston	Christie Creek and tribs
Cattaraugus	Case Lake	Monroe	Lake Ontario Shoreline, Western
Cattaraugus	Linlyco/Club Pond	Monroe	Mill Creek/Blue Pond Outlet and tribs
Cayuga	Duck Lake	Monroe	Rochester Embayment - East
Chautauqua	Chautauqua Lake, North	Monroe	Rochester Embayment - West
Chautauqua	Chautauqua Lake, South	Monroe	Unnamed Trib to Honeoye Creek
Chautauqua	Bear Lake	Monroe	Genesee River, Lower, Main Stem
Chautauqua	Chadakoin River and tribs	Monroe	Genesee River, Middle, Main Stem
Chautauqua	Lower Cassadaga Lake	Monroe	Black Creek, Lower, and minor tribs
Chautauqua	Middle Cassadaga Lake	Monroe	Buck Pond
Chautauqua	Findley Lake	Monroe	Long Pond
Clinton	Great Chazy River, Lower, Main Stem	Monroe	Cranberry Pond
Columbia	Kinderhook Lake	Monroe	Mill Creek and tribs
Columbia	Robinson Pond	Monroe	Shipbuilders Creek and tribs
Dutchess	Hillside Lake	Monroe	Minor tribs to Irondequoit Bay
Dutchess	Wappinger Lakes	Monroe	Thomas Creek/White Brook and tribs
Dutchess	Fall Kill and tribs	Nassau	Glen Cove Creek, Lower, and tribs
Erie	Green Lake	Nassau	LI Tribs (fresh) to East Bay
Erie	Scajaquada Creek, Lower, and tribs	Nassau	East Meadow Brook, Upper, and tribs
Erie	Scajaquada Creek, Middle, and tribs	Nassau	Hempstead Bay
Erie	Scajaquada Creek, Upper, and tribs	Nassau	Hempstead Lake
Erie	Rush Creek and tribs	Nassau	Grant Park Pond
Erie	Ellicott Creek, Lower, and tribs	Nassau	Beaver Lake
Erie	Beeman Creek and tribs	Nassau	Camaans Pond
Erie	Murder Creek, Lower, and tribs	Nassau	Halls Pond
Erie	South Branch Smoke Cr, Lower, and tribs	Nassau	LI Tidal Tribs to Hempstead Bay
		Nassau	Massapequa Creek and tribs
Erie	Little Sister Creek, Lower, and tribs	Nassau	Reynolds Channel, east
Essex	Lake George (primary county: Warren)	Nassau	Reynolds Channel, west
Genesee	Black Creek, Upper, and minor tribs	Nassau	Silver Lake, Lofts Pond
Genesee	Tonawanda Creek, Middle, Main Stem	Nassau	Woodmere Channel
Genesee	Oak Orchard Creek, Upper, and tribs	Niagara	Hyde Park Lake
Genesee	Bowen Brook and tribs	Niagara	Lake Ontario Shoreline, Western
Genesee	Bigelow Creek and tribs	Niagara	Bergholtz Creek and tribs
Genesee	Black Creek, Middle, and minor tribs	Oneida	Ballou, Nail Creeks
Genesee	LeRoy Reservoir	Onondaga	Ley Creek and tribs
Greene	Schoharie Reservoir	Onondaga	Onondaga Creek, Lower and tribs

APPENDIX E

List of 303(d) segments impaired by pollutants related to construction activity, cont'd.

COUNTY	WATERBODY	COUNTY	WATERBODY
Onondaga	Onondaga Creek, Middle and tribs	Suffolk	Great South Bay, West
Onondaga	Onondaga Creek, Upp, and minor tribs	Suffolk	Mill and Seven Ponds
Onondaga	Harbor Brook, Lower, and tribs	Suffolk	Moriches Bay, East
Onondaga	Ninemile Creek, Lower, and tribs	Suffolk	Moriches Bay, West
Onondaga	Minor tribs to Onondaga Lake	Suffolk	Quantuck Bay
Onondaga	Onondaga Creek, Lower, and tribs	Suffolk	Shinnecock Bay (and Inlet)
Ontario	Honeoye Lake	Sullivan	Bodine, Montgomery Lakes
Ontario	Hemlock Lake Outlet and minor tribs	Sullivan	Davies Lake
Ontario	Great Brook and minor tribs	Sullivan	Pleasure Lake
Orange	Monhagen Brook and tribs	Sullivan	Swan Lake
Orange	Orange Lake	Tompkins	Cayuga Lake, Southern End
Orleans	Lake Ontario Shoreline, Western	Tompkins	Owasco Inlet, Upper, and tribs
Oswego	Pleasant Lake	Ulster	Ashokan Reservoir
Oswego	Lake Neatahwanta	Ulster	Esopus Creek, Upper, and minor tribs
Putnam	Oscawana Lake		
Putnam	Palmer Lake	Ulster	Esopus Creek, Lower, Main Stem
Putnam	Lake Carmel	Ulster	Esopus Creek, Middle, and minor tribs
Queens	Jamaica Bay, Eastern, and tribs (Queens)		
Queens	Bergen Basin	Warren	Lake George
Queens	Shellbank Basin	Warren	Tribs to L.George, Village of L George
Rensselaer	Nassau Lake		
Rensselaer	Snyders Lake	Warren	Huddle/Finkle Brooks and tribs
Richmond	Grasmere, Arbutus and Wolfes Lakes	Warren	Indian Brook and tribs
Rockland	Congers Lake, Swartout Lake	Warren	Hague Brook and tribs
Rockland	Rockland Lake	Washington	Tribs to L.George, East Shr Lk George
Saratoga	Ballston Lake		
Saratoga	Round Lake	Washington	Cossayuna Lake
Saratoga	Dwaas Kill and tribs	Washington	Wood Cr/Champlain Canal, minor tribs
Saratoga	Tribs to Lake Lonely		
Saratoga	Lake Lonely	Wayne	Port Bay
Schenectady	Collins Lake	Wayne	Marbletown Creek and tribs
Schenectady	Duane Lake	Westchester	Lake Katonah
Schenectady	Mariaville Lake	Westchester	Lake Mohegan
Schoharie	Engleville Pond	Westchester	Lake Shenorock
Schoharie	Summit Lake	Westchester	Reservoir No.1 (Lake Isle)
Schuyler	Cayuta Lake	Westchester	Saw Mill River, Middle, and tribs
St. Lawrence	Fish Creek and minor tribs	Westchester	Silver Lake
St. Lawrence	Black Lake Outlet/Black Lake	Westchester	Teatown Lake
Steuben	Lake Salubria	Westchester	Truesdale Lake
Steuben	Smith Pond	Westchester	Wallace Pond
Suffolk	Millers Pond	Westchester	Peach Lake
Suffolk	Mattituck (Marratooka) Pond	Westchester	Mamaroneck River, Lower
Suffolk	Tidal tribs to West Moriches Bay	Westchester	Mamaroneck River, Upp, and tribs
Suffolk	Canaan Lake	Westchester	Sheldrake River and tribs
Suffolk	Lake Ronkonkoma	Westchester	Blind Brook, Lower
Suffolk	Beaverdam Creek and tribs	Westchester	Blind Brook, Upper, and tribs
Suffolk	Big/Little Fresh Ponds	Westchester	Lake Lincolndale
Suffolk	Fresh Pond	Westchester	Lake Meahaugh
Suffolk	Great South Bay, East	Wyoming	Java Lake
Suffolk	Great South Bay, Middle	Wyoming	Silver Lake

Note: The list above identifies those waters from the final New York State "2014 Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy", dated January 2015, that are impaired by silt, sediment or nutrients.

APPENDIX F

LIST OF NYS DEC REGIONAL OFFICES

Region	COVERING THE FOLLOWING COUNTIES:	DIVISION OF ENVIRONMENTAL PERMITS (DEP) PERMIT ADMINISTRATORS	DIVISION OF WATER (DOW) WATER (SPDES) PROGRAM
1	NASSAU AND SUFFOLK	50 CIRCLE ROAD STONY BROOK, NY 11790 TEL. (631) 444-0365	50 CIRCLE ROAD STONY BROOK, NY 11790-3409 TEL. (631) 444-0405
2	BRONX, KINGS, NEW YORK, QUEENS AND RICHMOND	1 HUNTERS POINT PLAZA, 47-40 21ST ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4997	1 HUNTERS POINT PLAZA, 47-40 21ST ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4933
3	DUTCHESS, ORANGE, PUTNAM, ROCKLAND, SULLIVAN, ULSTER AND WESTCHESTER	21 SOUTH PUTT CORNERS ROAD NEW PALTZ, NY 12561-1696 TEL. (845) 256-3059	100 HILLSIDE AVENUE, SUITE 1W WHITE PLAINS, NY 10603 TEL. (914) 428 - 2505
4	ALBANY, COLUMBIA, DELAWARE, GREENE, MONTGOMERY, OTSEGO, RENSSELAER, SCHENECTADY AND SCHOHARIE	1150 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2069	1130 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2045
5	CLINTON, ESSEX, FRANKLIN, FULTON, HAMILTON, SARATOGA, WARREN AND WASHINGTON	1115 STATE ROUTE 86, PO BOX 296 RAY BROOK, NY 12977-0296 TEL. (518) 897-1234	232 GOLF COURSE ROAD WARRENSBURG, NY 12885-1172 TEL. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7438	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROAD AVON, NY 14414-9519 TEL. (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUQUA, ERIE, NIAGARA AND WYOMING	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7165	270 MICHIGAN AVE. BUFFALO, NY 14203-2999 TEL. (716) 851-7070

APPENDIX

D

NOTICE OF INTENT

0644089821

NOTICE OF INTENT

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

NYR [ ][ ][ ][ ][ ][ ]
(for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-15-002

All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

-IMPORTANT-

RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)
EMERSUB 15, LLC

Owner/Operator Contact Person Last Name (NOT CONSULTANT)
CLARKE

Owner/Operator Contact Person First Name
STEPHEN

Owner/Operator Mailing Address
8000 W. Florissant Avenue

City
St. Louis

State
MO

Zip
63136-8506

Phone (Owner/Operator)
314-553-1953

Fax (Owner/Operator)
[ ][ ][ ]-[ ][ ][ ]-[ ][ ][ ][ ]

Email (Owner/Operator)
Steve.Clarke@emerson.com

FED TAX ID
[ ][ ]-[ ][ ][ ][ ][ ][ ][ ] (not required for individuals)

Project Site Information

Project/Site Name
Former Emerson Power Transmission

Street Address (NOT P.O. BOX)
620 South Aurora Street

Side of Street
○ **North** ○ **South** ○ **East** ● **West**

City/Town/Village (THAT ISSUES BUILDING PERMIT)
Ithaca

State: NY
Zip: 14850 -
County: Tompkins
DEC Region: 7

Name of Nearest Cross Street
Hillview Place & S Aurora Street

Distance to Nearest Cross Street (Feet)
100

Project In Relation to Cross Street
○ **North** ● **South** ○ **East** ○ **West**

Tax Map Numbers
Section-Block-Parcel
106-1-8

Tax Map Numbers
500700

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you **must** go to the NYSDEC Stormwater Interactive Map on the DEC website at:

www.dec.ny.gov/imsmaps/stormwater/viewer.htm

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site, go to the tool boxes on the top and choose "i"(identify). Then click on the center of your site and a new window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting): 376643

Y Coordinates (Northing): 4698531

2. What is the nature of this construction project?

○ **New Construction**

○ **Redevelopment with increase in impervious area**

● **Redevelopment with no increase in impervious area**

3. Select the predominant land use for both pre and post development conditions.
SELECT ONLY ONE CHOICE FOR EACH

Pre-Development Existing Land Use

- ○ FOREST
- ○ PASTURE/OPEN LAND
- ○ CULTIVATED LAND
- ○ SINGLE FAMILY HOME
- ○ SINGLE FAMILY SUBDIVISION
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ● INDUSTRIAL
- ○ COMMERCIAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ○ BIKE PATH/TRAIL
- ○ LINEAR UTILITY
- ○ PARKING LOT
- ○ OTHER

Post-Development Future Land Use

- ○ SINGLE FAMILY HOME
- ○ SINGLE FAMILY SUBDIVISION — Number of Lots
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ● INDUSTRIAL
- ○ COMMERCIAL
- ○ MUNICIPAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ○ BIKE PATH/TRAIL
- ○ LINEAR UTILITY (water, sewer, gas, etc.)
- ○ PARKING LOT
- ○ CLEARING/GRADING ONLY
- ○ DEMOLITION, NO REDEVELOPMENT
- ○ WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
- ○ OTHER

***Note:** for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
96.0	2.6	0.6	0.6

5. Do you plan to disturb more than 5 acres of soil at any one time? ○ **Yes** ● **No**

6. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

A	B	C	D
0 %	22 %	44 %	34 %

7. Is this a phased project? ○ **Yes** ● **No**

8. Enter the planned start and end dates of the disturbance activities.

Start Date 10/08/2018 – **End Date** 01/31/2019

9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Name

Unnamed Tributary to Sixmile Creek

9a. Type of waterbody identified in Question 9?

- ○ Wetland / State Jurisdiction On Site (Answer 9b)
- ○ Wetland / State Jurisdiction Off Site
- ○ Wetland / Federal Jurisdiction On Site (Answer 9b)
- ○ Wetland / Federal Jurisdiction Off Site
- ○ Stream / Creek On Site
- ● Stream / Creek Off Site
- ○ River On Site
- ○ River Off Site
- ○ Lake On Site
- ○ Lake Off Site
- ○ Other Type On Site
- ○ Other Type Off Site

9b. How was the wetland identified?

- ○ Regulatory Map
- ○ Delineated by Consultant
- ○ Delineated by Army Corps of Engineers
- ● Other (identify) N/A

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-15-002? ○ **Yes** ● **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-15-002? ○ **Yes** ● **No**

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ○ **Yes** ● **No**
If no, skip question 13.

13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? ○ **Yes** ○ **No**
If Yes, what is the acreage to be disturbed?

14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area? ○ **Yes** ● **No**

15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)? ● Yes ○ No ○ Unknown

16. What is the name of the municipality/entity that owns the separate storm sewer system?

City of Ithaca

17. Does any runoff from the site enter a sewer classified as a Combined Sewer? ○ Yes ● No ○ Unknown

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ○ Yes ● No

19. Is this property owned by a state authority, state agency, federal government or local government? ○ Yes ● No

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ● Yes ○ No

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ● Yes ○ No

22. Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? ○ Yes ● No
If No, skip questions 23 and 27-39.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual? ○ Yes ○ No

24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ● **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

SWPPP Preparer
WSP USA, Inc.

Contact Name (Last, Space, First)
Rykaczewski, David

Mailing Address
11 Stanwix Street, Suite 950

City
Pittsburgh

State Zip
PA 15222-

Phone
412-281-9900

Fax
-

Email
dave.rykaczewski@wsp.com

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-15-002. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name
David

MI
A

Last Name
Rykaczewski

Signature

STATE OF NEW YORK
DAVID ALAN RYKACZEWSKI
099287
LICENSED PROFESSIONAL ENGINEER

Date
09/24/2018

25. Has a construction sequence schedule for the planned management practices been prepared? ● Yes ○ No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

Temporary Structural

- ○ Check Dams
- ● Construction Road Stabilization
- ● Dust Control
- ● Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ○ Sediment Basin
- ○ Sediment Traps
- ○ Silt Fence
- ● Stabilized Construction Entrance
- ● Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ○ Temporary Swale
- ○ Turbidity Curtain
- ○ Water bars

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

- ○ Brush Matting
- ○ Dune Stabilization
- ○ Grassed Waterway
- ● Mulching
- ● Protecting Vegetation
- ○ Recreation Area Improvement
- ● Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ● Topsoiling
- ○ Vegetating Waterways

Permanent Structural

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ○ Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ○ Riprap Slope Protection
- ● Rock Outlet Protection
- ○ Streambank Protection

Other

Same Day Stabilization, Filter Sock,

Sandbag Pump Around, Filter Bag

Post-construction Stormwater Management Practice (SMP) Requirements

Important: Completion of Questions 27-39 is not required if response to Question 22 is No.

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

- ○ **Preservation of Undisturbed Areas**
- ○ **Preservation of Buffers**
- ○ **Reduction of Clearing and Grading**
- ○ **Locating Development in Less Sensitive Areas**
- ○ **Roadway Reduction**
- ○ **Sidewalk Reduction**
- ○ **Driveway Reduction**
- ○ **Cul-de-sac Reduction**
- ○ **Building Footprint Reduction**
- ○ **Parking Reduction**

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

○ All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).

○ Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

[ ][ ][ ].[ ][ ][ ] **acre-feet**

29. Identify the RR techniques (Area Reduction), RR techniques(Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

	Total Contributing Area (acres)		Total Contributing Impervious Area (acres)
RR Techniques (Area Reduction)			
○ Conservation of Natural Areas (RR-1) ...	___ . ___	and/or	___ . ___
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)	___ . ___	and/or	___ . ___
○ Tree Planting/Tree Pit (RR-3)	___ . ___	and/or	___ . ___
○ Disconnection of Rooftop Runoff (RR-4) ..	___ . ___	and/or	___ . ___
RR Techniques (Volume Reduction)			
○ Vegetated Swale (RR-5)			___ . ___
○ Rain Garden (RR-6)			___ . ___
○ Stormwater Planter (RR-7)			___ . ___
○ Rain Barrel/Cistern (RR-8)			___ . ___
○ Porous Pavement (RR-9)			___ . ___
○ Green Roof (RR-10)			___ . ___
Standard SMPs with RRv Capacity			
○ Infiltration Trench (I-1)			___ . ___
○ Infiltration Basin (I-2)			___ . ___
○ Dry Well (I-3)			___ . ___
○ Underground Infiltration System (I-4)			___ . ___
○ Bioretention (F-5)			___ . ___
○ Dry Swale (O-1)			___ . ___
Standard SMPs			
○ Micropool Extended Detention (P-1)			___ . ___
○ Wet Pond (P-2)			___ . ___
○ Wet Extended Detention (P-3)			___ . ___
○ Multiple Pond System (P-4)			___ . ___
○ Pocket Pond (P-5)			___ . ___
○ Surface Sand Filter (F-1)			___ . ___
○ Underground Sand Filter (F-2)			___ . ___
○ Perimeter Sand Filter (F-3)			___ . ___
○ Organic Filter (F-4)			___ . ___
○ Shallow Wetland (W-1)			___ . ___
○ Extended Detention Wetland (W-2)			___ . ___
○ Pond/Wetland System (W-3)			___ . ___
○ Pocket Wetland (W-4)			___ . ___
○ Wet Swale (O-2)			___ . ___

Table 2 - Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)

Alternative SMP	Total Contributing Impervious Area (acres)
○ **Hydrodynamic**	___.___
○ **Wet Vault**	___.___
○ **Media Filter**	___.___
○ **Other** _____	___.___

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Name _____

Manufacturer _____

Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29.

Total RRv provided

___.___ **acre-feet**

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

○ **Yes** ○ **No**

If Yes, go to question 36.
If No, go to question 32.

32. Provide the Minimum RRv required based on HSG.
[Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)]

Minimum RRv Required

___.___ **acre-feet**

32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?

○ **Yes** ○ **No**

If Yes, go to question 33.
Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29.

WQv Provided

[ ][ ][ ].[ ][ ][ ] **acre-feet**

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a). [ ][ ][ ].[ ][ ][ ]

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? ○ **Yes** ○ **No**

If Yes, go to question 36.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required

[ ][ ][ ].[ ][ ][ ] **acre-feet**

CPv Provided

[ ][ ][ ].[ ][ ][ ] **acre-feet**

36a. The need to provide channel protection has been waived because:

○ Site discharges directly to tidal waters or a fifth order or larger stream.

○ Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development

[ ][ ][ ].[ ][ ][ ] **CFS**

Post-development

[ ][ ][ ].[ ][ ][ ] **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

[ ][ ][ ].[ ][ ][ ] **CFS**

Post-development

[ ][ ][ ].[ ][ ][ ] **CFS**

37a. The need to meet the Qp and Qf criteria has been waived because:

- ○ Site discharges directly to tidal waters or a fifth order or larger stream.
- ○ Downstream analysis reveals that the Qp and Qf controls are not required

38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed? ○ **Yes** ○ **No**

If Yes, Identify the entity responsible for the long term Operation and Maintenance

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a) This space can also be used for other pertinent project information.

40. Identify other DEC permits, existing and new, that are required for this project/facility.

- ○ Air Pollution Control
- ○ Coastal Erosion
- ○ Hazardous Waste
- ○ Long Island Wells
- ○ Mined Land Reclamation
- ○ Solid Waste
- ○ Navigable Waters Protection / Article 15
- ○ Water Quality Certificate
- ○ Dam Safety
- ○ Water Supply
- ○ Freshwater Wetlands/Article 24
- ○ Tidal Wetlands
- ○ Wild, Scenic and Recreational Rivers
- ○ Stream Bed or Bank Protection / Article 15
- ○ Endangered or Threatened Species(Incidental Take Permit)
- ◐ Individual SPDES
- ○ SPDES Multi-Sector GP
- ○ Other
- ○ None

41. Does this project require a US Army Corps of Engineers Wetland Permit? ○ **Yes** ● **No**
If Yes, Indicate Size of Impact. .

42. Is this project subject to the requirements of a regulated, traditional land use control MS4? ● **Yes** ○ **No**
(If No, skip question 43)

43. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI? ● **Yes** ○ **No**

44. If this NOI is being submitted for the purpose of continuing or transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned.

Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name: Stephen

MI: L

Print Last Name: Clarke

Owner/Operator Signature: Steph L. C

Date: 09/24/2018

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NYS Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form

for

Construction Activities Seeking Authorization Under SPDES General Permit

*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

I. Project Owner/Operator Information		
1. Owner/Operator Name:	EMERSUB 15, LLC	
2. Contact Person:	STEPHEN CLARKE	
3. Street Address:	8000 W. FLORISSANT AVENUE	
4. City/State/Zip:	ST. LOUIS/MO/63136-8506	
II. Project Site Information		
5. Project/Site Name:	FORMER EMERSON POWER TRANSMISSION	
6. Street Address:	620 SOUTH AURORA STREET	
7. City/State/Zip:	ITHACA/NY/14850	
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information		
8. SWPPP Reviewed by: Dan Thaete - Town of Ithaca	Scott Gibson	
9. Title/Position: Town Engineer	Environmental Engineer/SMO	
10. Date Final SWPPP Reviewed and Accepted: 9/24/18	09/24/2018	
IV. Regulated MS4 Information		
11. Name of MS4: Town of Ithaca	City of Ithaca	
12. MS4 SPDES Permit Identification Number: NYR20A134	NYR20A283	
13. Contact Person: Dan Thaete	Scott Gibson	
14. Street Address: 106 Seven Mile Dr.	510 First Street	
15. City/State/Zip: Ithaca, NY 14850	Ithaca, NY 14850	
16. Telephone Number: 607-273-1656	607-272-1717	

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s). Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name: Daniel Thaete - Town of Ithaca	Scott Gibson
Title/Position: Town Engineer	Environmental Engineer/SMO
Signature:	Digitally signed by Scott Gibson DN: cn=Scott Gibson, o=City of Ithaca, ou=Water Sewer, email=scottg@cityofithaca.org, c=US Date: 2018.09.24 11:40:57 -04'00'
Date: 9/24/18	09/24/2018

VI. Additional Information

(NYS DEC - MS4 SWPPP Acceptance Form - January 2015)

APPENDIX

E

RAIN GAUGE LOG

SWPPP Rain Gauge Log (January - June)

Year:

January	Rainfall	February	Rainfall	March	Rainfall	April	Rainfall	May	Rainfall	June	Rainfall
1		1		1		1		1		1	
2		2		2		2		2		2	
3		3		3		3		3		3	
4		4		4		4		4		4	
5		5		5		5		5		5	
6		6		6		6		6		6	
7		7		7		7		7		7	
8		8		8		8		8		8	
9		9		9		9		9		9	
10		10		10		10		10		10	
11		11		11		11		11		11	
12		12		12		12		12		12	
13		13		13		13		13		13	
14		14		14		14		14		14	
15		15		15		15		15		15	
16		16		16		16		16		16	
17		17		17		17		17		17	
18		18		18		18		18		18	
19		19		19		19		19		19	
20		20		20		20		20		20	
21		21		21		21		21		21	
22		22		22		22		22		22	
23		23		23		23		23		23	
24		24		24		24		24		24	
25		25		25		25		25		25	
26		26		26		26		26		26	
27		27		27		27		27		27	
28		28		28		28		28		28	
29		29		29		29		29		29	
30				30		30		30		30	
31				31				31			

SWPPP Rain Gauge Log (July - December)

Year:

July	Rainfall	August	Rainfall	September	Rainfall	October	Rainfall	November	Rainfall	December	Rainfall
1		1		1		1		1		1	
2		2		2		2		2		2	
3		3		3		3		3		3	
4		4		4		4		4		4	
5		5		5		5		5		5	
6		6		6		6		6		6	
7		7		7		7		7		7	
8		8		8		8		8		8	
9		9		9		9		9		9	
10		10		10		10		10		10	
11		11		11		11		11		11	
12		12		12		12		12		12	
13		13		13		13		13		13	
14		14		14		14		14		14	
15		15		15		15		15		15	
16		16		16		16		16		16	
17		17		17		17		17		17	
18		18		18		18		18		18	
19		19		19		19		19		19	
20		20		20		20		20		20	
21		21		21		21		21		21	
22		22		22		22		22		22	
23		23		23		23		23		23	
24		24		24		24		24		24	
25		25		25		25		25		25	
26		26		26		26		26		26	
27		27		27		27		27		27	
28		28		28		28		28		28	
29		29		29		29		29		29	
30		30		30		30		30		30	
31		31				31				31	

APPENDIX

F

CONSTRUCTION SITE INSPECTION AND MAINTENANCE LOG BOOK

CONSTRUCTION SITE INSPECTION AND MAINTENANCE LOG BOOK

STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM FOR CONSTRUCTION ACTIVITIES

SAMPLE CONSTRUCTION SITE LOG BOOK

Table of Contents

I. Pre-Construction Meeting Documents
   a. Preamble to Site Assessment and Inspections
   b. Pre-Construction Site Assessment Checklist

II. Construction Duration Inspections
   a. Directions
   b. Modification to the SWPPP

I. PRE-CONSTRUCTION MEETING DOCUMENTS

Project Name _____

Permit No. _____ **Date of Authorization** _____

Name of Operator _____

Prime Contractor _____

a. Preamble to Site Assessment and Inspections

The Following Information To Be Read By All Person's Involved in The Construction of Stormwater Related Activities:

The Operator agrees to have a qualified inspector[1] conduct an assessment of the site prior to the commencement of construction[2] and certify in this inspection report that the appropriate erosion and sediment controls described in the SWPPP have been adequately installed or implemented to ensure overall preparedness of the site for the commencement of construction.

Prior to the commencement of construction, the Operator shall certify in this site logbook that the SWPPP has been prepared in accordance with the State's standards and meets all Federal, State and local erosion and sediment control requirements. A preconstruction meeting should be held to review all of the SWPPP requirements with construction personnel.

When construction starts, site inspections shall be conducted by the qualified inspector at least every 7 calendar days. The Operator shall maintain a record of all inspection reports in this site logbook. The site logbook shall be maintained on site and be made available to the permitting authorities upon request.

Prior to filing the Notice of Termination or the end of permit term, the Operator shall have a qualified inspector perform a final site inspection. The qualified inspector shall certify that the site has undergone final stabilization[3] using either vegetative or structural stabilization methods and that all temporary erosion and sediment controls (such as silt fencing) not needed for long-term erosion control have been removed. In addition, the Operator must identify and certify that all permanent structures described in the SWPPP have been constructed and provide the owner(s) with an operation and maintenance plan that ensures the structure(s) continuously functions as designed.

1 Refer to "Qualified Inspector" inspection requirements in the current SPDES General Permit for Stormwater Discharges from Construction Activity for complete list of inspection requirements.
2 "Commencement of construction" means the initial removal of vegetation and disturbance of soils associated with clearing, grading or excavating activities or other construction activities.
3 "Final stabilization" means that all soil-disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of eighty (80) percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

b. Pre-construction Site Assessment Checklist
(NOTE: Provide comments below as necessary)

1. Notice of Intent, SWPPP, and Contractors Certification:

Yes No NA
[ ] [ ] [ ] Has a Notice of Intent been filed with the NYS Department of Conservation?
[ ] [ ] [ ] Is the SWPPP on-site? Where?_____
[ ] [ ] [ ] Is the Plan current? What is the latest revision date?_____
[ ] [ ] [ ] Is a copy of the NOI (with brief description) onsite? Where?_____
[ ] [ ] [ ] Have all contractors involved with stormwater related activities signed a contractor's certification?

2. Resource Protection

Yes No NA
[ ] [ ] [ ] Are construction limits clearly flagged or fenced?
[ ] [ ] [ ] Important trees and associated rooting zones, on-site septic system absorption fields, existing vegetated areas suitable for filter strips, especially in perimeter areas, have been flagged for protection.
[ ] [ ] [ ] Creek crossings installed prior to land-disturbing activity, including clearing and blasting.

3. Surface Water Protection

Yes No NA
[ ] [ ] [ ] Clean stormwater runoff has been diverted from areas to be disturbed.
[ ] [ ] [ ] Bodies of water located either on site or in the vicinity of the site have been identified and protected.
[ ] [ ] [ ] Appropriate practices to protect on-site or downstream surface water are installed.
[ ] [ ] [ ] Are clearing and grading operations divided into areas <5 acres?

4. Stabilized Construction Access

Yes No NA
[ ] [ ] [ ] A temporary construction entrance to capture mud and debris from construction vehicles before they enter the public highway has been installed.
[ ] [ ] [ ] Other access areas (entrances, construction routes, equipment parking areas) are stabilized immediately as work takes place with gravel or other cover.
[ ] [ ] [ ] Sediment tracked onto public streets is removed or cleaned on a regular basis.

5. Sediment Controls

Yes No NA
[ ] [ ] [ ] Silt fence material and installation comply with the standard drawing and specifications.
[ ] [ ] [ ] Silt fences are installed at appropriate spacing intervals
[ ] [ ] [ ] Sediment/detention basin was installed as first land disturbing activity.
[ ] [ ] [ ] Sediment traps and barriers are installed.

6. Pollution Prevention for Waste and Hazardous Materials

Yes No NA
[ ] [ ] [ ] The Operator or designated representative has been assigned to implement the spill prevention avoidance and response plan.
[ ] [ ] [ ] The plan is contained in the SWPPP on page _____
[ ] [ ] [ ] Appropriate materials to control spills are onsite. Where? _____

II. CONSTRUCTION DURATION INSPECTIONS

a. Directions:

Inspection Forms will be filled out during the entire construction phase of the project.

Required Elements:

1) On a site map, indicate the extent of all disturbed site areas and drainage pathways. Indicate site areas that are expected to undergo initial disturbance or significant site work within the next 14-day period;

2) Indicate on a site map all areas of the site that have undergone temporary or permanent stabilization;

3) Indicate all disturbed site areas that have not undergone active site work during the previous 14-day period;

4) Inspect all sediment control practices and record the approximate degree of sediment accumulation as a percentage of sediment storage volume (for example, 10 percent, 20 percent, 50 percent);

5) Inspect all erosion and sediment control practices and record all maintenance requirements such as verifying the integrity of barrier or diversion systems (earthen berms or silt fencing) and containment systems (sediment basins and sediment traps). Identify any evidence of rill or gully erosion occurring on slopes and any loss of stabilizing vegetation or seeding/mulching. Document any excessive deposition of sediment or ponding water along barrier or diversion systems. Record the depth of sediment within containment structures, any erosion near outlet and overflow structures, and verify the ability of rock filters around perforated riser pipes to pass water; and

6) Immediately report to the Operator any deficiencies that are identified with the implementation of the SWPPP.

SITE PLAN/SKETCH

_____	_____
Inspector (print name)	**Date of Inspection**
_____	_____
Qualified Inspector (print name)	**Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
[ ] [ ] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?
[ ] [ ] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?
[ ] [ ] [ ] All disturbance is within the limits of the approved plans.
[ ] [ ] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA
[ ] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?
[ ] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
[ ] [ ] [ ] Is construction impacting the adjacent property?
[ ] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA
[ ] [ ] [ ] Maximum diameter pipes necessary to span creek without dredging are installed.
[ ] [ ] [ ] Installed non-woven geotextile fabric beneath approaches.
[ ] [ ] [ ] Is fill composed of aggregate (no earth or soil)?
[ ] [ ] [ ] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA
[ ] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.
[ ] [ ] [ ] Installed per standards and specifications?
[ ] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?
[ ] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA
[ ] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
[ ] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.
[ ] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.
[ ] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [ ] Installed per plan.
[ ] [ ] [ ] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [ ] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[ ] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [ ] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[ ] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [ ] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [ ] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [ ] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [ ] Installed per plan.
[ ] [ ] [ ] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[ ] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[ ] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [ ] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [ ] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[ ] [ ] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[ ] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[ ] [ ] [ ] Fabric buried 6 inches minimum.
[ ] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA
[ ] [ ] [ ] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [ ] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [ ] Drainage area is 1acre or less.
[ ] [ ] [ ] Excavated area is 900 cubic feet.
[ ] [ ] [ ] Excavated side slopes should be 2:1.
[ ] [ ] [ ] 2” x 4” frame is constructed and structurally sound.
[ ] [ ] [ ] Posts 3-foot maximum spacing between posts.
[ ] [ ] [ ] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [ ] Manufactured insert fabric is free of tears and punctures.
[ ] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.
Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA
[ ] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[ ] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[ ] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.
Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA
[ ] [ ] [ ] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [ ] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [ ] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [ ] Sediment basin dewatering pool is dewatering at appropriate rate.
Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

APPENDIX

G

SPILL RESPONSE REPORT

Spill Response Report

Within 1 hour of a spill discovery the following must be notified:
NYSDEC Spill Hotline:1-800-457-7362 National Response Center: 1-800-424-8802

For further information, contact:
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Spill Prevention & Response
625 Broadway – 11th Floor
Albany, NY 12233-7020
(518) 402-9546

Date: _____ Time: _____

Material Spilled: _____

_____

_____

_____

Approximate Volume: _____

Location: _____

_____

_____

Distance to nearest down gradient drainage: _____

_____

Distance to nearest down gradient open water: _____

_____

Temporary control measures in place: _____

_____

_____

_____

_____

_____

APPENDIX

H

OWNER/OPERATOR'S CERTIFICATION FORM

Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name: Stephen

MI: L

Print Last Name: Clarke

Owner/Operator Signature: Steph L. C

Date: 09/24/2018

CONTRACTOR CERTIFICATION

Ontario Specialty Contracting, Inc. (OSC) has been selected by Emersub 15, LLC (owner) to implement the IRM Work Plan that was approved by the New York State Department of Environmental Conservation on August 22, 2018. In this role, OSC will be responsible for installing, constructing, repairing, replacing, and maintaining the erosion and sedimentation control practices described in the Stormwater Pollution Prevention Plan (SWPPP).

I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations.

Signature

9/26/18

Date

DAN FLANIGAN

Printed Name

Ontario Specialty Contracting, Inc.
333 Ganson Street
Buffalo, NY 14203
716.856.3333

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NYS Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form

for

Construction Activities Seeking Authorization Under SPDES General Permit

*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

I. Project Owner/Operator Information		
1. Owner/Operator Name:	EMERSUB 15, LLC	
2. Contact Person:	STEPHEN CLARKE	
3. Street Address:	8000 W. FLORISSANT AVENUE	
4. City/State/Zip:	ST. LOUIS/MO/63136-8506	
II. Project Site Information		
5. Project/Site Name:	FORMER EMERSON POWER TRANSMISSION	
6. Street Address:	620 SOUTH AURORA STREET	
7. City/State/Zip:	ITHACA/NY/14850	
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information		
8. SWPPP Reviewed by: Dan Thaete - Town of Ithaca	Scott Gibson	
9. Title/Position: Town Engineer	Environmental Engineer/SMO	
10. Date Final SWPPP Reviewed and Accepted: 9/24/18	09/24/2018	
IV. Regulated MS4 Information		
11. Name of MS4: Town of Ithaca	City of Ithaca	
12. MS4 SPDES Permit Identification Number: NYR20A134	NYR20A283	
13. Contact Person: Dan Thaete	Scott Gibson	
14. Street Address: 106 Seven Mile Dr.	510 First Street	
15. City/State/Zip: Ithaca, NY 14850	Ithaca, NY 14850	
16. Telephone Number: 607-273-1656	607-272-1717	

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s). Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name: Daniel Thaete - Town of Ithaca	Scott Gibson
Title/Position: Town Engineer	Environmental Engineer/SMO
Signature:	Digitally signed by Scott Gibson DN: cn=Scott Gibson, o=City of Ithaca, ou=Water Sewer, email=scottg@cityofithaca.org, c=US Date: 2018.09.24 11:40:57 -04'00'
Date: 9/24/18	09/24/2018

VI. Additional Information

(NYS DEC - MS4 SWPPP Acceptance Form - January 2015)

New York State Department of Environmental Conservation

Certificate of Completion

NATHANIEL T. WINSTON

Is hereby awarded this Certificate signifying completion of the course:

"Protecting New York's Natural Resources with

Better Construction Site Management"

Attested Day of Training: 09/24/2018

This Course is Four-Hour Erosion and Sediment Control Training Endorsed by the NYS DEC Division of Water's Bureau of Water Permits to Satisfy Training Requirements Associated with Construction Activity under State Pollution Discharge Elimination System (SPDES) General Permit (#GP-0-15-002) for "Trained Individuals" (Contractors) and "Qualified Inspectors" needing such training. These Inspectors Work under the Direct Supervision of either a Licensed Professional Engineer or a Licensed Landscape Architect of the State of New York.

Certified Training Sponsored by: New York State Builders Association

Instructed by: John E. Folchetti, P.E. (NYSDEC SWT #0045-T)

Located at: 31 SODOM ROAD, BREWSTER, NEW YORK 10509

http://www.dec.ny.gov/chemical/8699.html#DEC ~ 625 Broadway, 4th Floor, Albany NY 12233-3505 ~ (518) 402-8111 ~ DWSWtrng@gw.dec.state.ny.us

APPENDIX

I

NOTICE OF TERMINATION

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505
(NOTE: Submit completed form to address above)

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity

Please indicate your permit identification number: NYR ___ ___ ___ ___ ___ ___

I. Owner or Operator Information

1. Owner/Operator Name:

2. Street Address:

3. City/State/Zip:

4. Contact Person:	4a.Telephone:

4b. Contact Person E-Mail:

II. Project Site Information

5. Project/Site Name:

6. Street Address:

7. City/Zip:

8. County:

III. Reason for Termination

9a. □ All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. ***Date final stabilization completed** (month/year): _____

9b. □ Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR ___ ___ ___ ___ ___ ___
(Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)

9c. □ Other (Explain on Page 2)

IV. Final Site Information:

10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? □ yes □ no (If no, go to question 10f.)

10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? □ yes □ no (If no, explain on Page 2)

10c. Identify the entity responsible for long-term operation and maintenance of practice(s)?

_____

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit? □ yes □ no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

□ Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.

□ Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).

□ For post-construction stormwater management practices that are privately owned, a mechanism is in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the owner or operator's deed of record.

□ For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? _____ (acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4? □ yes □ no

(If Yes, complete section VI - "MS4 Acceptance" statement

V. Additional Information/Explanation:

(Use this section to answer questions 9c. and 10b., if applicable)

VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name:

Title/Position:

Signature:	Date:

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued	
VII. Qualified Inspector Certification - Final Stabilization:	
I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.	
Printed Name:	
Title/Position:	
Signature:	Date:
VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):	
I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.	
Printed Name:	
Title/Position:	
Signature:	Date:
IX. Owner or Operator Certification	
I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.	
Printed Name:	
Title/Position:	
Signature:	Date:

(NYS DEC Notice of Termination - January 2015)

APPENDIX

J

SWPPP REVISION FORM

CONR 8
(03/14)

SPDES STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REVISION

JOB STAMP

Date: _____

Day of Week: S M T W T F S

Sheet No. ____ of ____

This form is to be used when revisions to the current Stormwater Pollution Prevention Plan (SWPPP) are required by SPDES General Permit for Stormwater Discharges from Construction Activity. The completed form must be filed in the Engineer's Field Office.

Reason for the Revision(s): Revision(s) were requested by NYSDEC: ☐ Yes ☐ No

_____

_____

_____

_____

_____

_____

_____

Describe the Revision(s) to the SWPPP:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Engineer-in-Charge Signature: _____

EICs Name & Title: _____

Date Completed: _____

Copy to Contractor: _____

SITE PLAN/SKETCH

NATHANIEL WINSTON	10/8/14 - 10/14
Inspector (print name)	**Date of Inspection**
Qualified Inspector (print name)	**Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [ ] [X] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [ ] [X] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [ ] [X] All disturbance is within the limits of the approved plans.

[ ] [ ] [X] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[ ] [ ] [X] Is construction site litter, debris and spoils appropriately managed?

[ ] [ ] [X] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[ ] [ ] [X] Is construction impacting the adjacent property?

[ ] [ ] [X] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[ ] [ ] [X] Stone is clean enough to effectively remove mud from vehicles.

[ ] [ ] [X] Installed per standards and specifications?

[ ] [ ] [X] Does all traffic use the stabilized entrance to enter and leave site?

[ ] [ ] [X] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[ ] [ ] [X] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[ ] [ ] [X] Clean water from upstream pool is being pumped to the downstream pool.

[ ] [ ] [X] Sediment laden water from work area is being discharged to a silt-trapping device.

[ ] [ ] [X] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA

[ ] [ ] [X] Installed per plan.
[ ] [ ] [X] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [X] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA

[ ] [ ] [X] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [X] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[ ] [ ] [X] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA

[ ] [ ] [X] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [X] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [X] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

[ ] [ ] [X] Installed per plan.
[ ] [ ] [X] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

[ ] [ ] [X] Stockpiles are stabilized with vegetation and/or mulch.
[ ] [ ] [X] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

[ ] [ ] [X] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [X] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA

[ ] [ ] [X] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[ ] [ ] [X] Joints constructed by wrapping the two ends together for continuous support.
[ ] [ ] [X] Fabric buried 6 inches minimum.
[ ] [ ] [X] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [X] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [X] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [X] Drainage area is 1acre or less.
[ ] [ ] [X] Excavated area is 900 cubic feet.
[ ] [ ] [X] Excavated side slopes should be 2:1.
[ ] [ ] [X] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [X] Posts 3-foot maximum spacing between posts.
[ ] [ ] [X] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [X] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [X] Manufactured insert fabric is free of tears and punctures.
[ ] [ ] [X] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[ ] [ ] [X] Outlet structure is constructed per the approved plan or drawing.
[ ] [ ] [X] Geotextile fabric has been placed beneath rock fill.
[ ] [ ] [X] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [X] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [X] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [X] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [X] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

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The Operator shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

SITE DELIVERIES, NO BREAKING GROUND

SITE PLAN/SKETCH

NATE WINTER

Inspector (print name)

10/10/14

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

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Housekeeping

1. General Site Conditions

Yes No NA

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[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA

[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA

[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA

[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA

[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

No AREAS Affected by high/precip.

SITE PLAN/SKETCH

NATE WINSTON	10/28/13
Inspector (print name)	**Date of Inspection**
NATE WINSTON	
Qualified Inspector (print name)	**Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[X] [ ] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[ ] [X] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA

[ ] [ ] [X] Installed per plan.
[ ] [ ] [X] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [X] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA

[ ] [ ] [X] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [X] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[ ] [ ] [X] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA

[ ] [ ] [X] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [X] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [X] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

[ ] [ ] [X] Installed per plan.
[ ] [ ] [X] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

[X] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[X] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

[ ] [ ] [X] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [X] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA

[X] [ ] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[X] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[X] [ ] [ ] Fabric buried 6 inches minimum.
[X] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [X] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [X] Placed wire screen between No. 3 crushed stone and concrete blocks.
[X] [ ] [ ] Drainage area is 1acre or less.
[X] [ ] [ ] Excavated area is 900 cubic feet.
[ ] [ ] [X] Excavated side slopes should be 2:1.
[X] [ ] [ ] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [X] Posts 3-foot maximum spacing between posts.
[ ] [ ] [X] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[X] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
[X] [ ] [ ] Manufactured insert fabric is free of tears and punctures.
[X] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation 0 % of design capacity.

3. Temporary Sediment Trap

Yes No NA

[X] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[X] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[X] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is 0 % of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [X] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [X] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [X] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [X] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is 0 % of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

N/A, despite 1.1 inch of rain, no issues on site.

SITE PLAN/SKETCH

NATE WINSTEN	11/5/2018
Inspector (print name)	**Date of Inspection**
NATE WINSTEN	
Qualified Inspector (print name)	**Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[X] [ ] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[ ] [X] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [ ] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[ ] [ ] [X] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA

[ ] [ ] [X] Installed per plan.
[ ] [ ] [X] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [X] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA

[X] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[X] [ ] [ ] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[X] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA

[ ] [ ] [X] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [X] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [X] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

[ ] [ ] [X] Installed per plan.
[ ] [ ] [X] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

[ ] [ ] [X] Stockpiles are stabilized with vegetation and/or mulch.
[X] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

[ ] [ ] [X] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [X] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA

[X] [ ] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[X] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[ ] [ ] [X] Fabric buried 6 inches minimum.
[X] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is 5 % of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [X] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [X] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [X] Drainage area is 1acre or less.
[ ] [X] [ ] Excavated area is 900 cubic feet.
[X] [ ] [ ] Excavated side slopes should be 2:1.
[X] [ ] [X] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [X] Posts 3-foot maximum spacing between posts.
[ ] [ ] [X] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [X] Posts are stable, fabric is tight and without rips or frayed areas.
[X] [ ] [ ] Manufactured insert fabric is free of tears and punctures.
[X] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation 5 % of design capacity.

3. Temporary Sediment Trap

Yes No NA

[X] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[X] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[X] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is 5 % of design capacity.

4. Temporary Sediment Basin

Yes No NA

[X] [ ] [ ] Basin and outlet structure constructed per the approved plan.
[X] [ ] [ ] Basin side slopes are stabilized with seed/mulch.
[X] [ ] [ ] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[X] [ ] [ ] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is 5 % of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTON
Inspector (print name)

11/13/18
Date of Inspection

NATE WINSTON
Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
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[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
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[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

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CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

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1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

No AREAS Affected by heavy precip.

SITE PLAN/SKETCH

NATE WINSTEN
Inspector (print name)

12/22/18
Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

Nate Winston
Inspector (print name)

1/15/19
Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTON
Inspector (print name)

1/23/19
Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

No AREAS Affected by heavy precip.

SITE PLAN/SKETCH

NATE WINTER

Inspector (print name)

1/28/19

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

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CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

No AREAS Affected by heavy precip.

SITE PLAN/SKETCH

NATE WINGER	2/13/19
Inspector (print name)	**Date of Inspection**
Qualified Inspector (print name)	**Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINGER	2/25/19
Inspector (print name)	**Date of Inspection**
Qualified Inspector (print name)	**Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Additional erosion control in AOC 34 to prevent water from entering excavation area

SITE PLAN/SKETCH

Nate Wiener

Inspector (print name)

NTW 3/12/19

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Additional erosion control in AOC 34 to prevent water from entering excavation area

SITE PLAN/SKETCH

Nate Winter	3/25/19
Inspector (print name)	**Date of Inspection**
Qualified Inspector (print name)	**Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
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Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

Nate Winston
Inspector (print name)

4/2/19
Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

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[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
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[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTON

Inspector (print name)

4/17/19

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

Nate Winter

Inspector (print name)

5/1/19

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTON

Inspector (print name)

5/19/19

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

Nate Winter 5/24/19

Inspector (print name) **Date of Inspection**

Qualified Inspector (print name) **Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTON
Inspector (print name)

5/29/19
Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTON	6/3/2019
Inspector (print name)	**Date of Inspection**
NATE WINSTON	
Qualified Inspector (print name)	**Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[X] [ ] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[ ] [X] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[ ] [ ] [X] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [X] Installed per plan.
[ ] [ ] [X] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [X] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[X] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[X] [ ] [ ] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[X] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [X] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [X] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [X] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [X] Installed per plan.
[ ] [ ] [X] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[X] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[X] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [X] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [X] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[X] [ ] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[X] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[X] [ ] [ ] Fabric buried 6 inches minimum.
[X] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [X] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [X] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [X] Drainage area is 1acre or less.
[ ] [ ] [X] Excavated area is 900 cubic feet.
[ ] [ ] [X] Excavated side slopes should be 2:1.
[ ] [ ] [X] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [X] Posts 3-foot maximum spacing between posts.
[ ] [ ] [X] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [X] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [X] Manufactured insert fabric is free of tears and punctures.
[X] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.
Sediment accumulation 0 % of design capacity.

3. Temporary Sediment Trap

Yes No NA

[X] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[X] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[X] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.
Sediment accumulation is 5 % of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [X] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [X] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [X] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [X] Sediment basin dewatering pool is dewatering at appropriate rate.
Sediment accumulation is NA % of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

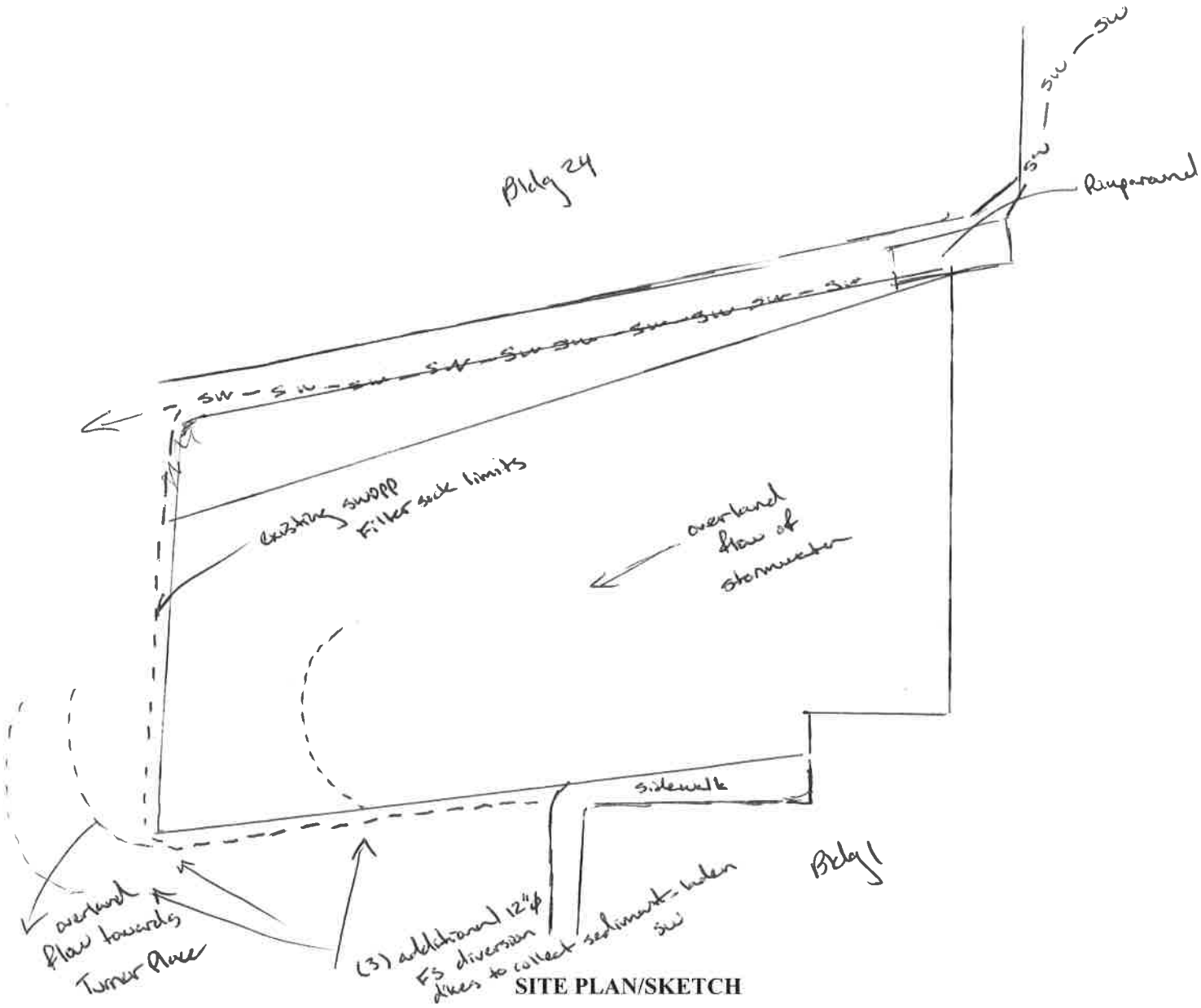
The Operator shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Additional erosion control in AOC 34 to prevent water from entering excavation area

CONSTRUCTION DURATION INSPECTIONS **Page 1 of _____**



SITE PLAN/SKETCH

Dan Cummings
Inspector (print name)

06/20/19
Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
[✓] [ ] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls? (Turner Place overland flow to City SW)
[ ] [✓] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?
[ ] [✓] [ ] All disturbance is within the limits of the approved plans.
[ ] [✓] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA
[✓] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?
[✓] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
[ ] [✓] [ ] Is construction impacting the adjacent property?
[✓] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA
[ ] [ ] [✓] Maximum diameter pipes necessary to span creek without dredging are installed.
[ ] [ ] [✓] Installed non-woven geotextile fabric beneath approaches.
[ ] [ ] [✓] Is fill composed of aggregate (no earth or soil)?
[ ] [ ] [✓] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access (asphalt pavement; N/A)

Yes No NA
[ ] [ ] [✓] Stone is clean enough to effectively remove mud from vehicles.
[ ] [ ] [✓] Installed per standards and specifications?
[ ] [ ] [✓] Does all traffic use the stabilized entrance to enter and leave site?
[ ] [ ] [✓] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA
[✓] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
[✓] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.
[✓] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.
[ ] [✓] [ ] Constructed upstream berm with one-foot minimum freeboard.
(temporarily impacted due to heavy precip event)

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[✓] [✓] [ ] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[ ] [✓] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [ ] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [ ] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is 16 % of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [✓] [✓] Manufactured insert fabric is free of tears and punctures.
[ ] [✓] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock. (ACL26 only)

Sediment accumulation 10 % of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is 5 % of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is n/a % of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Due to heavy precipitation event, overland flow from backfilled portions of Acc 26 and existing stormwater ditch (Building 24) cause sediment-laden water to divert off property, down Turner Place. Three additional interceptor dikes consisting of 12"Ø filter sock placed in series to capture sediment and allow water to drain to stormwater controls. While Building 24 ~~[illegible]~~ stormwater ditch crested and exceeded pinparound, rip-rap armoring minimized erosion of ditch soils.

No other backfilled areas (including Acc 352) or soil stockpile area SWPPP controls impacted by heavy rainfall event / require modification.

SITE PLAN/SKETCH

Nate Winter

Inspector (print name)

7/2/19

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WIMSER

Inspector (print name)

7/17/19

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTON
Inspector (print name)

8/01/19
Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTON

Inspector (print name)

8/9/19

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTON

Inspector (print name)

8/12/17

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
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Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTON	8/27/17
Inspector (print name)	**Date of Inspection**
Qualified Inspector (print name)	**Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTEN

Inspector (print name)

8/30/19

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

Nate Warner 9/9/19

Inspector (print name) **Date of Inspection**

Qualified Inspector (print name) **Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

Nate Winsor 10/11/19

Inspector (print name) **Date of Inspection**

Qualified Inspector (print name) **Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINGER

Inspector (print name)

10/28/19

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTR

Inspector (print name)

11/7/19

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTON	11/20/19
Inspector (print name)	**Date of Inspection**
Qualified Inspector (print name)	**Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

Nate Winston
Inspector (print name)

12/11/19
Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

NATE WINSTON

Inspector (print name)

1/2/20

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

SITE PLAN/SKETCH

	1/7/20
Inspector (print name)	**Date of Inspection**
Qualified Inspector (print name)	**Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

SITE PLAN/SKETCH

	1/22/20
Inspector (print name)	**Date of Inspection**
Qualified Inspector (print name)	**Qualified Inspector Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

[ ] [X] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?

[ ] [X] [ ] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?

[ ] [X] [ ] All disturbance is within the limits of the approved plans.

[ ] [X] [ ] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

[X] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?

[X] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?

[X] [ ] [ ] Is construction impacting the adjacent property?

[X] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

[ ] [ ] [X] Maximum diameter pipes necessary to span creek without dredging are installed.

[ ] [ ] [X] Installed non-woven geotextile fabric beneath approaches.

[ ] [ ] [X] Is fill composed of aggregate (no earth or soil)?

[ ] [ ] [X] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

[X] [ ] [ ] Stone is clean enough to effectively remove mud from vehicles.

[X] [ ] [ ] Installed per standards and specifications?

[X] [ ] [ ] Does all traffic use the stabilized entrance to enter and leave site?

[X] [ ] [ ] Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

[X] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.

[X] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.

[X] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.

[X] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [✓] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA
[✓] [ ] [ ] Installed per plan with minimum side slopes 2H:1V or flatter.
[ ] [ ] [✓] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[✓] [ ] [ ] Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA
[ ] [ ] [✓] Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ] [ ] [✓] Check is in good condition (rocks in place and no permanent pools behind the structure).
[ ] [ ] [✓] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA
[ ] [ ] [✓] Installed per plan.
[ ] [ ] [✓] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA
[✓] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[✓] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA
[ ] [ ] [✓] Temporary seedings and mulch have been applied to idle areas.
[ ] [ ] [✓] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA
[✓] [✓] [ ] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[✓] [ ] [ ] Joints constructed by wrapping the two ends together for continuous support.
[✓] [✓] [ ] Fabric buried 6 inches minimum.
[✓] [ ] [ ] Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

[ ] [ ] [✓] Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ] [ ] [✓] Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ] [ ] [✓] Drainage area is 1acre or less.
[ ] [ ] [✓] Excavated area is 900 cubic feet.
[ ] [ ] [✓] Excavated side slopes should be 2:1.
[ ] [ ] [✓] 2" x 4" frame is constructed and structurally sound.
[ ] [ ] [✓] Posts 3-foot maximum spacing between posts.
[ ] [ ] [✓] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ] [ ] [✓] Posts are stable, fabric is tight and without rips or frayed areas.
[ ] [ ] [✓] Manufactured insert fabric is free of tears and punctures.
[✓] [ ] [ ] Filter Sock is not torn or flattened and fill material is contained within the mesh sock.

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[✓] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[✓] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[✓] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [✓] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [✓] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [✓] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [✓] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

APPENDIX

F CAMP DATA

Appendix F

Community Air Monitoring Program - Upwind Station
October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/15/2018 14:05	12.8	77.9	0	0.016	
10/15/2018 14:06			0	0.015	
10/15/2018 14:07			0	0.015	
10/15/2018 14:08			0	0.016	
10/15/2018 14:09			0	0.015	
10/15/2018 14:10	12.8	79	0	0.015	
10/15/2018 14:11			0	0.016	
10/15/2018 14:12			0	0.015	
10/15/2018 14:13			0	0.015	
10/15/2018 14:14			0	0.015	
10/15/2018 16:18	12.9	97.2			
10/15/2018 16:20	12.9	85			
10/15/2018 16:21			0	0.012	
10/15/2018 16:22			0	0.014	
10/15/2018 16:23			0	0.05	
10/15/2018 16:24			0	0.015	
10/15/2018 16:25	12.8	91.1	0	0.012	
10/15/2018 16:26			0	0.011	
10/15/2018 16:27			0	0.012	
10/15/2018 16:28			0	0.013	
10/15/2018 16:29			0	0.014	
10/15/2018 16:30	12.8	86	0	0.012	
10/15/2018 16:31			0	0.012	
10/15/2018 16:32			0	0.012	
10/15/2018 16:33			0	0.014	
10/15/2018 16:34			0	0.014	
10/15/2018 16:35	12.8	97.2	0	0.012	
10/15/2018 16:36			0	0.012	
10/15/2018 16:37			0.001	0.012	
10/15/2018 16:38			0.001	0.014	
10/15/2018 16:39			0.001	0.013	
10/15/2018 16:40	12.8	91.1	0.001	0.013	
10/15/2018 16:41			0.001	0.013	
10/15/2018 16:42			0.001	0.012	
10/15/2018 16:43			0.001	0.014	
10/15/2018 16:44			0.001	0.013	
10/15/2018 16:45	12.8	82	0.001	0.012	
10/15/2018 16:46			0.001	0.013	
10/15/2018 16:47			0.001	0.013	
10/15/2018 16:48			0.001	0.012	
10/15/2018 16:49			0.001	0.011	
10/15/2018 16:50	12.8	86	0.001	0.011	
10/15/2018 16:51			0.001	0.012	
10/15/2018 16:52			0.001	0.011	
10/15/2018 16:53			0.001	0.011	
10/15/2018 16:54			0.001	0.011	
10/15/2018 16:55	12.8	72.9	0.001	0.012	
10/15/2018 16:56			0.001	0.011	
10/15/2018 16:57			0.001	0.01	
10/15/2018 16:58			0.001	0.01	
10/15/2018 16:59			0.001	0.011	
10/15/2018 17:00	12.8	79	0.001	0.011	
10/15/2018 17:01			0.001	0.011	
10/15/2018 17:02			0.001	0.011	
10/15/2018 17:03			0.001	0.011	
10/15/2018 17:04			0.001	0.01	
10/15/2018 17:05	12.8	85	0.001	0.01	
10/15/2018 17:06			0.001	0.01	
10/15/2018 17:07			0.001	0.01	
10/15/2018 17:08			0.001	0.01	
10/15/2018 17:09			0.001	0.01	
10/15/2018 17:10	12.8	85	0.001	0.011	
10/15/2018 17:11			0.001	0.01	
10/15/2018 17:12	12.9	103.2			
10/15/2018 17:15	12.8	103.2			
10/15/2018 17:16			0		
10/15/2018 17:17			0	0.011	
10/15/2018 17:18			0	0.012	
10/15/2018 17:19			0	0.012	
10/15/2018 17:20	12.8	79	0	0.011	
10/15/2018 17:21			0	0.011	
10/15/2018 17:22			0	0.015	
10/15/2018 17:23			0	0.014	
10/15/2018 17:42					42.4316987;-76.5039446
10/15/2018 17:45	12.8	82	0.001	0.008	
10/15/2018 17:45					42.43203;-76.49831
10/15/2018 17:46			0	0.008	
10/15/2018 17:47			0	0.008	
10/15/2018 17:48			0	0.008	
10/15/2018 17:49			0	0.008	
10/15/2018 17:50	12.8	85	0	0.008	
10/15/2018 17:50					42.43195;-76.49837
10/15/2018 17:51			0	0.008	
10/15/2018 17:52			0	0.008	
10/15/2018 17:53			0	0.007	
10/15/2018 17:54			0	0.008	
10/15/2018 17:55	12.8	80	0	0.008	
10/15/2018 17:55					42.43191;-76.49834
10/15/2018 17:56			0	0.008	
10/15/2018 17:57			0	0.008	
10/15/2018 17:58			0	0.008	
10/15/2018 17:59			0	0.008	
10/15/2018 18:00	12.8	84	0	0.008	
10/15/2018 18:00					42.43185;-76.49828
10/15/2018 18:01			0	0.008	
10/15/2018 18:02			0	0.008	
10/15/2018 18:03			0	0.008	
10/15/2018 18:04			0	0.008	
10/15/2018 18:05	12.8	81	0	0.008	
10/15/2018 18:05					42.43181;-76.49825
10/15/2018 18:06			0	0.008	
10/15/2018 18:07			0	0.008	
10/15/2018 18:08			0	0.008	
10/15/2018 18:09			0	0.008	
10/15/2018 18:10	12.8	81	0	0.008	
10/15/2018 18:10					42.43199;-76.49844
10/15/2018 18:11			0	0.008	
10/15/2018 18:12			0	0.008	
10/15/2018 18:13			0	0.008	

Community Air Monitoring Program - Upwind Station
October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/15/2018 18:14			0	0.008	
10/15/2018 18:15	12.8	84	0.001	0.008	
10/15/2018 18:15					42.43187;-76.49836
10/15/2018 18:16			0.001	0.008	
10/15/2018 18:17			0.001	0.008	
10/15/2018 18:18			0.001	0.008	
10/15/2018 18:19			0.001	0.008	
10/15/2018 18:20	12.8	86	0.001	0.008	
10/15/2018 18:20					42.43203;-76.49844
10/15/2018 18:21			0.001	0.008	
10/15/2018 18:22			0.001	0.008	
10/15/2018 18:23			0.001	0.008	
10/15/2018 18:24			0.001	0.009	
10/15/2018 18:25	12.8	85	0.001	0.009	
10/15/2018 18:25					42.43216;-76.49821
10/15/2018 18:26			0.001	0.009	
10/15/2018 18:27			0.001	0.009	
10/15/2018 18:28			0.001	0.009	
10/15/2018 18:29			0.001	0.009	
10/15/2018 18:30	12.8	87	0.001	0.009	
10/15/2018 18:30					42.43206;-76.49817
10/15/2018 18:31			0.001	0.009	
10/15/2018 18:32			0.001	0.009	
10/15/2018 18:33			0.001	0.009	
10/15/2018 18:34			0.001	0.009	
10/15/2018 18:35	12.7	126.5	0.001	0.01	42.43203;-76.49838
10/15/2018 18:36			0.001	0.016	
10/15/2018 18:37			0.001	0.01	
10/15/2018 18:38			0.001	0.009	
10/15/2018 18:39			0.001	0.009	
10/15/2018 18:40	12.8	81	0.001	0.009	42.43208;-76.49843
10/15/2018 18:41			0.001	0.01	
10/15/2018 18:42			0.001	0.012	
10/15/2018 18:43			0.001	0.012	
10/15/2018 18:44			0.001	0.01	
10/15/2018 18:45	12.8	79	0.001	0.011	42.43196;-76.49842
10/15/2018 18:46			0.001	0.011	
10/15/2018 18:47			0.001	0.011	
10/15/2018 18:48			0.001	0.011	
10/15/2018 18:49			0.001	0.011	
10/15/2018 18:50	12.8	83	0.001	0.01	42.43209;-76.4985
10/15/2018 18:51			0.001	0.009	
10/15/2018 18:52			0.001	0.01	
10/15/2018 18:53			0.001	0.01	
10/15/2018 18:54			0.001	0.01	
10/15/2018 18:55	12.8	87	0.001	0.01	42.43203;-76.49828
10/15/2018 18:56			0.001	0.01	
10/15/2018 18:57			0.001	0.013	
10/15/2018 18:58			0.001	0.011	
10/15/2018 18:59			0.001	0.011	
10/15/2018 19:00	12.8	83	0.001	0.013	42.43151;-76.49786
10/15/2018 19:01			0.001	0.012	
10/15/2018 19:02			0.001	0.011	
10/15/2018 19:03			0.001	0.011	
10/15/2018 19:04			0.002	0.011	
10/15/2018 19:05	12.8	80	0.002	0.028	42.43228;-76.49837
10/15/2018 19:06			0.002	0.012	
10/15/2018 19:07			0.002	0.012	
10/15/2018 19:08			0.002	0.021	
10/15/2018 19:09			0.002	0.011	
10/15/2018 19:10	12.8	87	0.002	0.01	42.43225;-76.49837
10/15/2018 19:11			0.002	0.01	
10/15/2018 19:12			0.002	0.01	
10/15/2018 19:13			0.002	0.01	
10/15/2018 19:14			0.002	0.01	
10/15/2018 19:15	12.8	81	0.002	0.01	42.43216;-76.49834
10/15/2018 19:16			0.002	0.01	
10/15/2018 19:17			0.002	0.01	
10/15/2018 19:18			0.002	0.011	
10/15/2018 19:19			0.002	0.011	
10/15/2018 19:20	12.8	86	0.002	0.01	42.43232;-76.49838
10/15/2018 19:21			0.002	0.01	
10/15/2018 19:22			0.002	0.01	
10/15/2018 19:23			0.002	0.01	
10/15/2018 19:24			0.002	0.01	
10/15/2018 19:25	12.8	80	0.002	0.01	42.43243;-76.49837
10/15/2018 19:26			0.002	0.01	
10/15/2018 19:27			0.002	0.01	
10/15/2018 19:28			0.002	0.011	
10/15/2018 19:29			0.002	0.011	
10/15/2018 19:30	12.8	90.1	0.002	0.011	42.43269;-76.4985
10/15/2018 19:31			0.002	0.012	
10/15/2018 19:32			0.002	0.01	
10/15/2018 19:33			0.002	0.01	
10/15/2018 19:34			0.002	0.01	
10/15/2018 19:35	12.7	111.3	0.002	0.01	42.43217;-76.49834
10/15/2018 19:36			0.002	0.012	
10/15/2018 19:37			0.002	0.012	
10/15/2018 19:38			0.002	0.012	
10/15/2018 19:39			0.002	0.011	
10/15/2018 19:40	12.7	86	0.002	0.01	42.43204;-76.49831
10/15/2018 19:41			0.002	0.01	
10/15/2018 19:42			0.002	0.01	
10/15/2018 19:43			0.002	0.012	
10/15/2018 19:44			0.002	0.012	
10/15/2018 19:45	12.7	81	0.002	0.011	42.43222;-76.49832
10/15/2018 19:46			0.003	0.011	
10/15/2018 19:47			0.003	0.01	
10/15/2018 19:48			0.003	0.01	
10/15/2018 19:49			0.003	0.01	
10/15/2018 19:50	12.7	79	0.003	0.01	42.43204;-76.49834
10/15/2018 19:51			0.003	0.01	
10/15/2018 19:52			0.003	0.01	
10/15/2018 19:53			0.003	0.01	
10/15/2018 19:54			0.003	0.01	
10/15/2018 19:55	12.7	79	0.003	0.011	42.43204;-76.49831
10/15/2018 19:56			0.003	0.012	
10/15/2018 19:57			0.003	0.012	
10/15/2018 19:58			0.003	0.011	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/15/2018 19:59			0.003	0.012	
10/15/2018 20:00	12.7	82	0.003	0.012	42.43222;-76.49836
10/15/2018 20:01			0.003	0.011	
10/15/2018 20:02			0.003	0.015	
10/15/2018 20:03			0.003	0.012	
10/15/2018 20:04			0.003	0.011	
10/15/2018 20:05	12.7	84	0.003	0.013	42.43227;-76.49831
10/15/2018 20:06			0.003	0.013	
10/15/2018 20:07			0.003	0.012	
10/15/2018 20:08			0.003	0.011	
10/15/2018 20:09			0.003	0.012	
10/15/2018 20:10	12.7	84	0.003	0.019	
10/15/2018 20:10					42.43208;-76.49828
10/15/2018 20:11			0.003	0.02	
10/15/2018 20:12			0.003	0.019	
10/15/2018 20:13			0.003	0.014	
10/15/2018 20:14			0.003	0.011	
10/15/2018 20:15	12.7	102.2	0.003	0.011	
10/15/2018 20:15					42.43208;-76.49836
10/15/2018 20:16			0.003	0.011	
10/15/2018 20:17			0.003	0.014	
10/15/2018 20:18			0.003	0.013	
10/15/2018 20:19			0.003	0.013	
10/15/2018 20:20	12.7	91.1	0.003	0.012	
10/15/2018 20:20					42.43211;-76.49837
10/15/2018 20:21			0.003	0.012	
10/15/2018 20:22			0.003	0.012	
10/15/2018 20:23			0.003	0.012	
10/15/2018 20:24			0.003	0.012	
10/15/2018 20:25	12.7	90.1	0.003	0.013	
10/15/2018 20:25					42.43207;-76.49834
10/15/2018 20:26			0.004	0.013	
10/15/2018 20:27			0.004	0.013	
10/15/2018 20:28			0.004	0.013	
10/15/2018 20:29			0.004	0.023	
10/15/2018 20:30	12.7	80	0.004	0.012	
10/15/2018 20:30					42.43205;-76.49833
10/15/2018 20:31			0.004	0.014	
10/15/2018 20:32			0.004	0.016	
10/15/2018 20:33			0.004	0.013	
10/15/2018 20:34			0.004	0.015	
10/15/2018 20:35	12.7	86	0.004	0.012	
10/15/2018 20:35					42.43207;-76.49834
10/15/2018 20:36			0.004	0.013	
10/15/2018 20:37			0.004	0.012	
10/15/2018 20:38			0.004	0.012	
10/15/2018 20:39			0.004	0.012	
10/15/2018 20:40	12.7	84	0.004	0.012	
10/15/2018 20:40					42.43208;-76.4983
10/15/2018 20:41			0.004	0.012	
10/15/2018 20:42				0.012	
10/15/2018 20:45	12.9	76.9			
10/16/2018 12:16	13.3	97.2			
10/16/2018 12:16					42.4316459;-76.5040033
10/16/2018 12:18			0		
10/16/2018 12:19			0	0.006	
10/16/2018 12:20	12.9	88.1	0	0.006	
10/16/2018 12:20					42.43164;-76.49899
10/16/2018 12:21			0	0.006	
10/16/2018 12:22			0	0.006	
10/16/2018 12:23			0	0.006	
10/16/2018 12:24			0	0.006	
10/16/2018 12:25	12.9	77.9	0	0.006	
10/16/2018 12:25					42.43164;-76.49897
10/16/2018 12:26			0	0.006	
10/16/2018 12:27			0	0.007	
10/16/2018 12:28			0	0.007	
10/16/2018 12:29			0	0.007	
10/16/2018 12:30	12.9	82	0	0.007	
10/16/2018 12:30					42.43164;-76.49895
10/16/2018 12:31			0	0.007	
10/16/2018 12:32			0	0.006	
10/16/2018 12:33			0	0.005	
10/16/2018 12:34			0	0.005	
10/16/2018 12:35	12.9	88.1	0	0.005	
10/16/2018 12:35					42.43162;-76.49895
10/16/2018 12:36			0	0.005	
10/16/2018 12:37			0	0.006	
10/16/2018 12:38			0	0.006	
10/16/2018 12:39			0	0.006	
10/16/2018 12:40	12.9	83	0	0.005	
10/16/2018 12:40					42.43161;-76.49895
10/16/2018 12:41			0	0.006	
10/16/2018 12:42			0	0.005	
10/16/2018 12:43			0	0.005	
10/16/2018 12:44			0	0.034	
10/16/2018 12:45	12.9	76.9	0	0.007	
10/16/2018 12:45					42.43162;-76.49889
10/16/2018 12:46			0	0.005	
10/16/2018 12:47			0	0.006	
10/16/2018 12:48			0	0.005	
10/16/2018 12:49			0	0.006	
10/16/2018 12:50	12.9	87	0	0.008	
10/16/2018 12:50					42.43167;-76.49897
10/16/2018 12:51			0	0.005	
10/16/2018 12:52			0	0.005	
10/16/2018 12:53			0	0.008	
10/16/2018 12:54			0.001	0.005	
10/16/2018 12:55	12.9	79	0.001	0.005	
10/16/2018 12:55					42.43172;-76.49894
10/16/2018 12:56			0.001	0.006	
10/16/2018 12:57			0.001	0.005	
10/16/2018 12:58			0.001	0.005	
10/16/2018 12:59			0.001	0.005	
10/16/2018 13:00	12.9	88.1	0.001	0.005	
10/16/2018 13:00					42.43172;-76.49893
10/16/2018 13:01			0.001	0.005	
10/16/2018 13:02			0.001	0.005	
10/16/2018 13:03			0.001	0.006	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/16/2018 13:04			0.001	0.006	
10/16/2018 13:05	12.9	87	0.001	0.006	
10/16/2018 13:05					42.43192;-76.49891
10/16/2018 13:06			0.001	0.006	
10/16/2018 13:07			0.001	0.006	
10/16/2018 13:08			0.001	0.006	
10/16/2018 13:09			0.001	0.005	
10/16/2018 13:10	12.9	84	0.001	0.006	
10/16/2018 13:10					42.43158;-76.49886
10/16/2018 13:11			0.001	0.006	
10/16/2018 13:12			0.001	0.006	
10/16/2018 13:13			0.001	0.005	
10/16/2018 13:14			0.001	0.004	
10/16/2018 13:15	12.9	76.9	0.001	0.004	
10/16/2018 13:15					42.43164;-76.49889
10/16/2018 13:16			0.001	0.004	
10/16/2018 13:17			0.001	0.004	
10/16/2018 13:18			0.001	0.004	
10/16/2018 13:19			0.001	0.005	
10/16/2018 13:20	12.9	88.1	0.001	0.005	
10/16/2018 13:20					42.43148;-76.49905
10/16/2018 13:21			0.001	0.005	
10/16/2018 13:22			0.001	0.005	
10/16/2018 13:23			0.001	0.005	
10/16/2018 13:24			0.001	0.004	
10/16/2018 13:25	12.9	79	0.001	0.004	
10/16/2018 13:25					42.43151;-76.49905
10/16/2018 13:26			0.001	0.004	
10/16/2018 13:27			0.001	0.004	
10/16/2018 13:28			0.001	0.004	
10/16/2018 13:29			0.001	0.004	
10/16/2018 13:30	12.9	92.1	0.001	0.004	
10/16/2018 13:30					42.43156;-76.49907
10/16/2018 13:31			0.001	0.004	
10/16/2018 13:32			0.001	0.004	
10/16/2018 13:33			0.001	0.004	
10/16/2018 13:34			0.001	0.004	
10/16/2018 13:35	12.9	85	0.001	0.004	
10/16/2018 13:35					42.4315;-76.49908
10/16/2018 13:36			0.001	0.004	
10/16/2018 13:37			0.001	0.004	
10/16/2018 13:38			0.001	0.006	
10/16/2018 13:39			0.001	0.004	
10/16/2018 13:40	12.9	76.9	0.001	0.004	
10/16/2018 13:40					42.43145;-76.49905
10/16/2018 13:41			0.001	0.004	
10/16/2018 13:42			0.001	0.004	
10/16/2018 13:43			0.001	0.004	
10/16/2018 13:44			0.001	0.004	
10/16/2018 13:45	12.9	79	0.001	0.004	
10/16/2018 13:45					42.43157;-76.49907
10/16/2018 13:46			0.001	0.004	
10/16/2018 13:47			0.001	0.004	
10/16/2018 13:48			0.001	0.004	
10/16/2018 13:49			0.001	0.004	
10/16/2018 13:50	12.9	98.2	0.001	0.004	
10/16/2018 13:50					42.43158;-76.49909
10/16/2018 13:51			0.001	0.004	
10/16/2018 13:52			0.001	0.004	
10/16/2018 13:53			0.001	0.004	
10/16/2018 13:54			0.001	0.004	
10/16/2018 13:55	12.9	77.9	0.001	0.004	
10/16/2018 13:55					42.43157;-76.49905
10/16/2018 13:56			0.001	0.004	
10/16/2018 13:57			0.001	0.004	
10/16/2018 13:58			0.001	0.004	
10/16/2018 13:59			0.001	0.004	
10/16/2018 14:00	12.9	83	0.001	0.004	
10/16/2018 14:00					42.4316;-76.49908
10/16/2018 14:01			0.001	0.004	
10/16/2018 14:02			0.001	0.004	
10/16/2018 14:03			0.001	0.005	
10/16/2018 14:04			0.001	0.004	
10/16/2018 14:05	12.9	77.9	0.001	0.004	
10/16/2018 14:05					42.43172;-76.49911
10/16/2018 14:06			0.001	0.004	
10/16/2018 14:07			0.001	0.005	
10/16/2018 14:08			0.001	0.005	
10/16/2018 14:09			0.001	0.005	
10/16/2018 14:10	12.9	83	0.001	0.005	
10/16/2018 14:10					42.43157;-76.49903
10/16/2018 14:11			0.001	0.005	
10/16/2018 14:12			0.001	0.005	
10/16/2018 14:13			0.001	0.005	
10/16/2018 14:14			0.001	0.005	
10/16/2018 14:15	12.9	88.1	0.001	0.005	
10/16/2018 14:15					42.43161;-76.49879
10/16/2018 14:16			0.001	0.005	
10/16/2018 14:17			0.001	0.005	
10/16/2018 14:18			0.001	0.005	
10/16/2018 14:19			0.001	0.005	
10/16/2018 14:20	12.8	93.1	0.001	0.005	
10/16/2018 14:20					42.43163;-76.49892
10/16/2018 14:21			0.001	0.005	
10/16/2018 14:22			0.001	0.005	
10/16/2018 14:23			0.001	0.005	
10/16/2018 14:24			0.001	0.005	
10/16/2018 14:25	12.8	76.9	0.001	0.005	
10/16/2018 14:25					42.43163;-76.49905
10/16/2018 14:26			0.001	0.005	
10/16/2018 14:27			0.001	0.005	
10/16/2018 14:28			0.001	0.005	
10/16/2018 14:29			0.001	0.005	
10/16/2018 14:30	12.8	77.9	0.001	0.005	
10/16/2018 14:30					42.43162;-76.49904
10/16/2018 14:31			0.001	0.005	
10/16/2018 14:32			0.001	0.005	
10/16/2018 14:33			0.001	0.005	
10/16/2018 14:34			0.001	0.005	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/16/2018 14:35	12.8	83	0.001	0.005	
10/16/2018 14:35					42.43158;-76.49902
10/16/2018 14:36			0.001	0.005	
10/16/2018 14:37			0.002	0.005	
10/16/2018 14:38			0.002	0.005	
10/16/2018 14:39			0.002	0.005	
10/16/2018 14:40	12.8	89.1	0.002	0.005	
10/16/2018 14:40					42.43158;-76.49899
10/16/2018 14:41			0.002	0.005	
10/16/2018 14:42			0.002	0.005	
10/16/2018 14:43			0.002	0.005	
10/16/2018 14:44			0.002	0.005	
10/16/2018 14:45	12.8	77.9	0.002	0.005	
10/16/2018 14:45					42.43161;-76.49899
10/16/2018 14:46			0.002	0.005	
10/16/2018 14:47			0.002	0.005	
10/16/2018 14:48			0.002	0.005	
10/16/2018 14:49			0.002	0.005	
10/16/2018 14:50	12.8	81	0.002	0.005	
10/16/2018 14:50					42.43162;-76.49902
10/16/2018 14:51			0.002	0.006	
10/16/2018 14:52			0.002	0.006	
10/16/2018 14:53			0.002	0.005	
10/16/2018 14:54			0.002	0.009	
10/16/2018 14:55	12.8	80	0.002	0.006	
10/16/2018 14:55					42.43167;-76.49909
10/16/2018 14:56			0.002	0.005	
10/16/2018 14:57			0.002	0.005	
10/16/2018 14:58			0.002	0.005	
10/16/2018 14:59			0.002	0.005	
10/16/2018 15:00	12.8	77.9	0.002	0.005	
10/16/2018 15:00					42.43169;-76.49907
10/16/2018 15:01			0.002	0.005	
10/16/2018 15:02			0.002	0.005	
10/16/2018 15:03			0.002	0.005	
10/16/2018 15:04			0.002	0.005	
10/16/2018 15:05	12.8	91.1	0.002	0.005	
10/16/2018 15:05					42.43165;-76.49903
10/16/2018 15:06			0.002	0.005	
10/16/2018 15:07			0.002	0.005	
10/16/2018 15:08			0.002	0.006	
10/16/2018 15:09			0.002	0.005	
10/16/2018 15:10	12.8	94.1	0.002	0.005	
10/16/2018 15:10					42.43155;-76.49886
10/16/2018 15:11			0.002	0.005	
10/16/2018 15:12			0.002	0.005	
10/16/2018 15:13			0.002	0.005	
10/16/2018 15:14			0.002	0.005	
10/16/2018 15:15	12.8	79	0.002	0.005	
10/16/2018 15:15					42.43157;-76.49873
10/16/2018 15:16			0.002	0.005	
10/16/2018 15:17			0.002	0.005	
10/16/2018 15:18			0.002	0.005	
10/16/2018 15:19			0.002	0.005	
10/16/2018 15:20	12.7	85	0.002	0.005	
10/16/2018 15:20					42.43164;-76.49902
10/16/2018 15:21			0.002	0.005	
10/16/2018 15:22			0.002	0.005	
10/16/2018 15:23			0.002	0.005	
10/16/2018 15:24			0.002	0.005	
10/16/2018 15:25	12.7	85	0.002	0.005	
10/16/2018 15:25					42.43164;-76.4989
10/16/2018 15:26			0.002	0.005	
10/16/2018 15:27			0.002	0.005	
10/16/2018 15:28			0.002	0.005	
10/16/2018 15:29			0.002	0.005	
10/16/2018 15:30	12.7	88.1	0.002	0.005	
10/16/2018 15:30					42.43165;-76.49905
10/16/2018 15:31			0.002	0.005	
10/16/2018 15:32			0.002	0.005	
10/16/2018 15:33			0.002	0.005	
10/16/2018 15:34			0.002	0.005	
10/16/2018 15:35	12.7	77.9	0.002	0.005	
10/16/2018 15:35					42.43161;-76.499
10/16/2018 15:36			0.002	0.005	
10/16/2018 15:37			0.002	0.005	
10/16/2018 15:38			0.002	0.005	
10/16/2018 15:39			0.002	0.005	
10/16/2018 15:40	12.7	79	0.002	0.005	
10/16/2018 15:40					42.43148;-76.49907
10/16/2018 15:41			0.002	0.005	
10/16/2018 15:42			0.002	0.005	
10/16/2018 15:43			0.002	0.005	
10/16/2018 15:44			0.002	0.006	
10/16/2018 15:45	12.7	80	0.002	0.005	
10/16/2018 15:45					42.43148;-76.49931
10/16/2018 15:46			0.002	0.006	
10/16/2018 15:47			0.002	0.005	
10/16/2018 15:48			0.002	0.005	
10/16/2018 15:49			0.002	0.005	
10/16/2018 15:50	12.7	79	0.002	0.005	
10/16/2018 15:50					42.43126;-76.49953
10/16/2018 15:51			0.002	0.005	
10/16/2018 15:52			0.002	0.005	
10/16/2018 15:53			0.002	0.005	
10/16/2018 15:54			0.002	0.005	
10/16/2018 15:55	12.7	93.1	0.002	0.005	
10/16/2018 15:55					42.43101;-76.49986
10/16/2018 15:56			0.002	0.005	
10/16/2018 15:57			0.002	0.005	
10/16/2018 15:58			0.002	0.005	
10/16/2018 15:59			0.002	0.005	
10/16/2018 16:00	12.7	86	0.002	0.005	
10/16/2018 16:00					42.43045;-76.50035
10/16/2018 16:01			0.002	0.005	
10/16/2018 16:02			0.002	0.005	
10/16/2018 16:03			0.002	0.005	
10/16/2018 16:04			0.002	0.005	
10/16/2018 16:05	12.7	88.1	0.002	0.005	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/16/2018 16:05					42.43056;-76.49998
10/16/2018 16:06			0.002	0.005	
10/16/2018 16:07			0.002	0.005	
10/16/2018 16:08			0.002	0.005	
10/16/2018 16:09			0.002	0.005	
10/16/2018 16:10	12.7	79	0.003	0.005	
10/16/2018 16:10					42.43092;-76.49754
10/16/2018 16:11			0.003	0.005	
10/16/2018 16:12			0.003	0.005	
10/16/2018 16:13			0.003	0.005	
10/16/2018 16:14			0.003	0.005	
10/16/2018 16:15	12.6	79	0.003	0.005	
10/16/2018 16:16			0.003	0.005	
10/16/2018 16:17			0.003	0.005	
10/16/2018 16:18			0.003	0.005	
10/16/2018 16:19			0.003	0.005	
10/16/2018 16:20	12.6	80	0.003	0.005	
10/16/2018 16:21			0.003	0.005	
10/16/2018 16:22			0.003	0.005	
10/16/2018 16:23			0.003	0.005	
10/16/2018 16:24			0.003	0.005	
10/16/2018 16:25	12.6	86	0.003	0.005	
10/16/2018 16:26			0.003	0.005	
10/16/2018 16:27			0.003	0.005	
10/16/2018 16:28			0.003	0.005	
10/16/2018 16:29			0.003	0.005	
10/16/2018 16:30	12.6	87	0.003	0.005	
10/16/2018 16:31			0.003	0.005	
10/16/2018 16:32			0.003	0.005	
10/16/2018 16:33			0.003	0.005	
10/16/2018 16:34			0.003	0.005	
10/16/2018 16:35	12.6	88.1	0.003	0.005	
10/16/2018 16:36			0.003	0.005	
10/16/2018 16:37			0.003	0.004	
10/16/2018 16:38			0.003	0.004	
10/16/2018 16:39			0.003	0.004	
10/16/2018 16:40	12.6	86	0.003	0.005	
10/16/2018 16:40					42.43159;-76.49825
10/16/2018 16:41			0.003	0.004	
10/16/2018 16:42			0.003	0.004	
10/16/2018 16:43			0.003	0.005	
10/16/2018 16:44			0.003	0.004	
10/16/2018 16:45	12.6	84	0.003	0.004	
10/16/2018 16:46			0.003	0.005	
10/16/2018 16:47			0.003	0.005	
10/16/2018 16:48			0.003	0.005	
10/16/2018 16:49			0.003	0.004	
10/16/2018 16:50	12.6	79	0.003	0.004	
10/16/2018 16:50					42.43153;-76.49773
10/16/2018 16:51			0.003	0.004	
10/16/2018 16:52			0.003	0.004	
10/16/2018 16:53			0.003	0.004	
10/16/2018 16:54			0.003	0.005	
10/16/2018 16:55	12.6	82	0.003	0.004	
10/16/2018 16:55					42.43159;-76.49639
10/16/2018 16:56			0.003	0.004	
10/16/2018 16:57			0.003	0.004	
10/16/2018 16:58			0.003	0.012	
10/16/2018 16:59			0.003	0.017	
10/16/2018 17:00	12.6	77.9	0.003	0.004	
10/16/2018 17:00					42.43191;-76.49789
10/16/2018 17:01			0.003	0.004	
10/16/2018 17:02			0.003	0.005	
10/16/2018 17:03			0.003	0.005	
10/16/2018 17:04			0.003	0.005	
10/16/2018 17:05	12.6	82	0.003	0.005	
10/16/2018 17:05					42.4316;-76.49902
10/16/2018 17:06			0.003	0.005	
10/16/2018 17:07			0.003	0.005	
10/16/2018 17:08			0.003	0.005	
10/16/2018 17:09			0.003	0.005	
10/16/2018 17:10	12.6	85	0.003	0.005	
10/16/2018 17:10					42.43164;-76.49895
10/16/2018 17:11			0.003	0.005	
10/16/2018 17:12			0.003	0.005	
10/16/2018 17:13			0.003	0.005	
10/16/2018 17:14			0.003	0.006	
10/16/2018 17:15	12.6	85	0.003	0.005	
10/16/2018 17:15					42.43157;-76.49905
10/16/2018 17:16			0.003	0.005	
10/16/2018 17:17			0.003	0.005	
10/16/2018 17:18			0.003	0.005	
10/16/2018 17:19			0.003	0.005	
10/16/2018 17:20	12.6	79	0.003	0.006	
10/16/2018 17:20					42.43158;-76.49902
10/16/2018 17:21			0.003	0.005	
10/16/2018 17:22			0.003	0.005	
10/16/2018 17:23			0.003	0.005	
10/16/2018 17:24			0.003	0.005	
10/16/2018 17:25	12.6	77.9	0.003	0.005	
10/16/2018 17:25					42.43154;-76.49905
10/16/2018 17:26			0.003	0.005	
10/16/2018 17:27			0.003	0.005	
10/16/2018 17:28			0.003	0.005	
10/16/2018 17:29			0.003	0.005	
10/16/2018 17:30	12.6	85	0.003	0.005	
10/16/2018 17:30					42.43155;-76.49925
10/16/2018 17:31			0.003	0.005	
10/16/2018 17:32			0.003	0.005	
10/16/2018 17:33			0.003	0.005	
10/16/2018 17:34			0.003	0.005	
10/16/2018 17:35	12.5	79	0.003	0.005	
10/16/2018 17:35					42.43155;-76.49911
10/16/2018 17:36			0.003	0.005	
10/16/2018 17:37			0.003	0.005	
10/16/2018 17:38			0.003	0.005	
10/16/2018 17:39			0.003	0.005	
10/16/2018 17:40	12.5	92.1	0.003	0.005	
10/16/2018 17:40					42.43159;-76.49904

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/16/2018 17:41			0.003	0.005	
10/16/2018 17:42			0.003	0.005	
10/16/2018 17:43			0.003	0.005	
10/16/2018 17:44			0.003	0.005	
10/16/2018 17:45	12.6	91.1	0.004	0.005	
10/16/2018 17:45					42.43164;-76.49914
10/16/2018 17:46			0.004	0.005	
10/16/2018 17:47			0.004	0.005	
10/16/2018 17:48			0.004	0.016	
10/16/2018 17:49			0.004	0.006	
10/16/2018 17:50	12.5	87	0.004	0.005	
10/16/2018 17:50					42.43148;-76.49918
10/16/2018 17:51			0.004	0.005	
10/16/2018 17:52			0.004	0.005	
10/16/2018 17:53			0.004	0.005	
10/16/2018 17:54			0.004	0.005	
10/16/2018 17:55	12.5	84	0.004	0.005	
10/16/2018 17:55					42.43163;-76.49901
10/16/2018 17:56			0.004	0.005	
10/16/2018 17:57			0.004	0.005	
10/16/2018 17:58			0.004	0.005	
10/16/2018 17:59			0.004	0.005	
10/16/2018 18:00	12.5	82	0.004	0.005	
10/16/2018 18:00					42.43168;-76.49908
10/16/2018 18:01			0.004	0.005	
10/16/2018 18:02			0.004	0.012	
10/16/2018 18:03			0.004	0.005	
10/16/2018 18:04			0.004	0.005	
10/16/2018 18:05	12.5	91.1	0.004	0.005	
10/16/2018 18:05					42.43166;-76.49908
10/16/2018 18:06			0.004	0.005	
10/16/2018 18:07			0.004	0.005	
10/16/2018 18:08			0.004	0.005	
10/16/2018 18:09			0.004	0.005	
10/16/2018 18:10	12.5	81	0.004	0.005	
10/16/2018 18:10					42.43161;-76.49895
10/16/2018 18:11			0.004	0.005	
10/16/2018 18:12			0.004	0.006	
10/16/2018 18:13			0.004	0.006	
10/16/2018 18:14			0.004	0.006	
10/16/2018 18:15	12.5	82	0.004	0.006	
10/16/2018 18:15					42.43165;-76.49901
10/16/2018 18:16			0.004	0.006	
10/16/2018 18:17			0.004	0.005	
10/16/2018 18:18			0.004	0.005	
10/16/2018 18:19			0.004	0.005	
10/16/2018 18:20	12.4	81	0.004	0.005	
10/16/2018 18:20					42.43158;-76.49892
10/16/2018 18:21			0.004	0.005	
10/16/2018 18:22			0.004	0.006	
10/16/2018 18:23			0.004	0.006	
10/16/2018 18:24			0.004	0.006	
10/16/2018 18:25	12.4	105.3	0.004	0.006	
10/16/2018 18:25					42.43167;-76.49899
10/16/2018 18:26			0.004	0.006	
10/16/2018 18:27			0.004	0.006	
10/16/2018 18:28			0.004	0.005	
10/16/2018 18:29			0.004	0.005	
10/16/2018 18:30	12.4	88.1	0.004	0.005	
10/16/2018 18:30					42.43158;-76.49898
10/16/2018 18:31			0.004	0.005	
10/16/2018 18:32			0.004	0.005	
10/16/2018 18:33			0.004	0.007	
10/16/2018 18:34			0.004	0.005	
10/16/2018 18:35	12.5	81	0.004	0.005	
10/16/2018 18:35					42.43158;-76.49895
10/16/2018 18:36			0.004	0.005	
10/16/2018 18:37			0.004	0.005	
10/16/2018 18:38			0.004	0.005	
10/16/2018 18:39			0.004	0.005	
10/16/2018 18:40	12.5	90.1	0.004	0.005	
10/16/2018 18:40					42.43168;-76.49878
10/16/2018 18:41			0.004	0.005	
10/16/2018 18:42			0.004	0.005	
10/16/2018 18:43			0.004	0.005	
10/16/2018 18:44			0.004	0.005	
10/16/2018 18:45	12.4	86	0.004	0.004	
10/16/2018 18:45					42.43158;-76.49894
10/16/2018 18:46			0.004	0.005	
10/16/2018 18:47			0.004	0.008	
10/16/2018 18:48			0.004	0.005	
10/16/2018 18:49			0.004	0.004	
10/16/2018 18:50	12.4	87	0.004	0.004	
10/16/2018 18:50					42.43159;-76.49895
10/16/2018 18:51			0.004	0.005	
10/16/2018 18:52			0.004	0.005	
10/16/2018 18:53			0.004	0.005	
10/16/2018 18:54			0.004	0.005	
10/16/2018 18:55	12.4	93.1	0.004	0.005	
10/16/2018 18:55					42.43156;-76.49892
10/16/2018 18:56			0.004	0.005	
10/16/2018 18:57			0.004	0.005	
10/16/2018 18:58			0.004	0.005	
10/16/2018 18:59			0.004	0.004	
10/16/2018 19:00	12.4	88.1	0.004	0.004	
10/16/2018 19:00					42.43168;-76.49895
10/16/2018 19:01			0.004	0.004	
10/16/2018 19:02			0.004	0.005	
10/16/2018 19:03			0.004	0.004	
10/16/2018 19:04			0.004	0.004	
10/16/2018 19:05	12.4	81	0.004	0.004	
10/16/2018 19:05					42.43164;-76.49902
10/16/2018 19:06			0.004	0.013	
10/16/2018 19:07			0.004	0.005	
10/16/2018 19:08			0.004	0.005	
10/16/2018 19:09			0.004	0.005	
10/16/2018 19:10	12.4	97.2	0.004	0.005	
10/16/2018 19:10					42.43159;-76.49895
10/16/2018 19:11			0.004	0.008	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/16/2018 19:12			0.004	0.005	
10/16/2018 19:13			0.005	0.005	
10/16/2018 19:14			0.005	0.005	
10/16/2018 19:15	12.5	80	0.005	0.005	
10/16/2018 19:15					42.43186;-76.49895
10/16/2018 19:16			0.005	0.005	
10/16/2018 19:17			0.005	0.005	
10/16/2018 19:18			0.005	0.005	
10/16/2018 19:19			0.005	0.005	
10/16/2018 19:20	12.5	80	0.005	0.005	
10/16/2018 19:20					42.43178;-76.49899
10/16/2018 19:21			0.005	0.005	
10/16/2018 19:22			0.005	0.005	
10/16/2018 19:23			0.005	0.005	
10/16/2018 19:24			0.005	0.004	
10/16/2018 19:25	12.5	93.1	0.005	0.004	
10/16/2018 19:25					42.43164;-76.49892
10/16/2018 19:26			0.005	0.004	
10/16/2018 19:27			0.005	0.006	
10/16/2018 19:28			0.005	0.006	
10/16/2018 19:29			0.005	0.005	
10/16/2018 19:30	12.5	82	0.005	0.004	
10/16/2018 19:30					42.43164;-76.49892
10/16/2018 19:31			0.005	0.009	
10/16/2018 19:32			0.005	0.005	
10/16/2018 19:33			0.005	0.005	
10/16/2018 19:34			0.005	0.005	
10/16/2018 19:35	12.5	81	0.005	0.004	
10/16/2018 19:35					42.43152;-76.49892
10/16/2018 19:36			0.005	0.004	
10/16/2018 19:37			0.005	0.005	
10/16/2018 19:38			0.005	0.004	
10/16/2018 19:39			0.005	0.004	
10/16/2018 19:40	12.5	81	0.005	0.004	
10/16/2018 19:40					42.43156;-76.49897
10/16/2018 19:41			0.005	0.004	
10/16/2018 19:42			0.005	0.004	
10/16/2018 19:43			0.005	0.004	
10/16/2018 19:44			0.005	0.004	
10/16/2018 19:45	12.5	87	0.005	0.004	
10/16/2018 19:45					42.43135;-76.49891
10/16/2018 19:46			0.005	0.004	
10/16/2018 19:47			0.005	0.004	
10/16/2018 19:48			0.005	0.004	
10/16/2018 19:49			0.005	0.006	
10/16/2018 19:50	12.5	80	0.005	0.004	
10/16/2018 19:50					42.43145;-76.49885
10/16/2018 19:51			0.005	0.004	
10/16/2018 19:52			0.005	0.004	
10/16/2018 19:53			0.005	0.004	
10/16/2018 19:54			0.005	0.004	
10/16/2018 19:55	12.5	83	0.005	0.004	
10/16/2018 19:55					42.43156;-76.49895
10/16/2018 19:56			0.005	0.004	
10/16/2018 19:57			0.005	0.004	
10/16/2018 19:58			0.005	0.004	
10/16/2018 19:59			0.005	0.004	
10/16/2018 20:00	12.5	85	0.005	0.004	
10/16/2018 20:00					42.43159;-76.49895
10/16/2018 20:01			0.005	0.004	
10/16/2018 20:02			0.005	0.004	
10/16/2018 20:03			0.005	0.004	
10/16/2018 20:04			0.005	0.004	
10/16/2018 20:05	12.5	94.1	0.005	0.004	
10/16/2018 20:05					42.43161;-76.4989
10/16/2018 20:06			0.005	0.004	
10/16/2018 20:07			0.005	0.004	
10/16/2018 20:08			0.005	0.004	
10/16/2018 20:09			0.005	0.004	
10/16/2018 20:10	12.4	88.1	0.005	0.004	
10/16/2018 20:10					42.43164;-76.49897
10/16/2018 20:11			0.005	0.004	
10/16/2018 20:12			0.005	0.004	
10/16/2018 20:13			0.005	0.004	
10/16/2018 20:14			0.005	0.004	
10/16/2018 20:15	12.5	80	0.005	0.004	
10/16/2018 20:15					42.43159;-76.49897
10/16/2018 20:16			0.005	0.004	
10/16/2018 20:17			0.005	0.004	
10/16/2018 20:18			0.005	0.004	
10/16/2018 20:19			0.005	0.004	
10/16/2018 20:20	12.5	80	0.005	0.004	
10/16/2018 20:20					42.43157;-76.49899
10/16/2018 20:21			0.005	0.004	
10/16/2018 20:22			0.005	0.004	
10/16/2018 20:23			0.005	0.004	
10/16/2018 20:24			0.005	0.004	
10/16/2018 20:25	12.5	81	0.005	0.004	
10/16/2018 20:25					42.43167;-76.49901
10/16/2018 20:26			0.005	0.004	
10/16/2018 20:27			0.005	0.004	
10/16/2018 20:28			0.005	0.004	
10/16/2018 20:29			0.005	0.004	
10/16/2018 20:30	12.5	91.1	0.005	0.004	
10/16/2018 20:30					42.43164;-76.49899
10/16/2018 20:31			0.005	0.004	
10/16/2018 20:32			0.005	0.018	
10/16/2018 20:33			0.005	0.004	
10/16/2018 20:34			0.005	0.004	
10/16/2018 20:35	12.5	83	0.005	0.004	
10/16/2018 20:35					42.43161;-76.49899
10/16/2018 20:36			0.005	0.007	
10/16/2018 20:37			0.005	0.004	
10/16/2018 20:38			0.005	0.004	
10/16/2018 20:39			0.005	0.004	
10/16/2018 20:40	12.5	81	0.005	0.004	
10/16/2018 20:40					42.43159;-76.49899
10/16/2018 20:41			0.005	0.004	
10/16/2018 20:42			0.005	0.004	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/16/2018 20:43			0.005	0.004	
10/16/2018 20:44			0.005	0.004	
10/16/2018 20:45	12.4	79	0.005	0.004	
10/16/2018 20:45					42.43161;-76.49895
10/16/2018 20:46			0.005	0.004	
10/16/2018 20:47			0.005	0.006	
10/16/2018 20:48			0.005	0.006	
10/16/2018 20:49			0.005	0.004	
10/16/2018 20:50	12.5	86	0.005	0.004	
10/16/2018 20:50					42.43163;-76.49894
10/16/2018 20:51			0.005	0.004	
10/16/2018 20:52			0.005	0.004	
10/16/2018 20:53			0.005	0.004	
10/16/2018 20:54			0.005	0.004	
10/16/2018 20:55	12.4	90.1	0.005	0.004	
10/16/2018 20:55					42.43156;-76.49897
10/16/2018 20:56			0.005	0.004	
10/16/2018 20:57			0.005	0.004	
10/16/2018 20:58			0.005	0.005	
10/16/2018 20:59			0.005	0.004	
10/16/2018 21:00	12.5	81	0.005	0.004	
10/16/2018 21:00					42.43159;-76.49902
10/16/2018 21:01			0.005	0.004	
10/16/2018 21:02			0.005	0.004	
10/16/2018 21:03			0.005	0.004	
10/16/2018 21:04			0.005	0.004	
10/16/2018 21:05	12.4	84	0.005	0.004	
10/16/2018 21:05					42.43159;-76.49901
10/16/2018 21:06			0.005	0.004	
10/16/2018 21:07			0.005	0.004	
10/16/2018 21:08			0.005	0.004	
10/16/2018 21:09			0.005	0.004	
10/16/2018 21:10	12.4	82	0.005	0.004	
10/16/2018 21:10					42.43159;-76.49902
10/16/2018 21:11			0.005	0.004	
10/16/2018 21:12			0.005	0.004	
10/16/2018 21:13			0.005	0.004	
10/16/2018 21:14			0.005	0.004	
10/16/2018 21:15	12.4	85	0.005	0.004	
10/16/2018 21:15					42.43159;-76.49902
10/16/2018 21:16			0.005	0.004	
10/16/2018 21:17			0.005	0.004	
10/16/2018 21:18			0.005	0.004	
10/16/2018 21:19			0.005	0.004	
10/16/2018 21:20	12.5	102.2	0.005	0.004	42.43161;-76.49899
10/16/2018 21:21			0.005	0.004	
10/16/2018 21:22			0.005	0.004	
10/16/2018 21:23			0.005	0.004	
10/16/2018 21:24			0.005	0.004	
10/16/2018 21:25	12.5	94.1	0.005	0.004	42.4316;-76.49905
10/16/2018 21:26			0.005	0.004	
10/16/2018 21:27			0.005	0.004	
10/16/2018 21:28			0.005	0.005	
10/16/2018 21:29			0.005	0.004	
10/16/2018 21:30	12.5	91.1	0.005	0.005	42.43152;-76.49914
10/16/2018 21:31			0.005	0.004	
10/16/2018 21:32			0.005	0.004	
10/16/2018 21:33			0.005	0.004	
10/16/2018 21:34			0.005	0.004	
10/16/2018 21:35	12.5	79	0.005	0.006	
10/17/2018 11:43	13.3	98.2			
10/17/2018 11:43					42.429930399999996;-76.51179669999999
10/17/2018 11:45	13.1	111.3	0	0.018	
10/17/2018 11:45					42.43185;-76.4987
10/17/2018 11:46			0	0.011	
10/17/2018 11:47			0	0.011	
10/17/2018 11:48			0	0.01	
10/17/2018 11:49			0	0.01	
10/17/2018 11:50	13	92.1	0	0.01	42.43185;-76.49881
10/17/2018 11:51			0	0.01	
10/17/2018 11:52			0	0.01	
10/17/2018 11:53			0	0.01	
10/17/2018 11:54			0	0.01	
10/17/2018 11:55	13	99.2	0	0.009	42.43184;-76.49876
10/17/2018 11:56			0	0.01	
10/17/2018 11:57			0	0.009	
10/17/2018 11:58			0	0.009	
10/17/2018 11:59			0	0.009	
10/17/2018 12:00	13	83	0	0.009	42.43188;-76.49877
10/17/2018 12:01			0	0.009	
10/17/2018 12:02			0	0.009	
10/17/2018 12:03			0	0.011	
10/17/2018 12:04			0	0.009	
10/17/2018 12:05	13	88.1	0	0.009	
10/17/2018 12:05					42.43191;-76.49879
10/17/2018 12:06			0	0.009	
10/17/2018 12:07			0	0.009	
10/17/2018 12:08			0	0.009	
10/17/2018 12:09			0	0.009	
10/17/2018 12:10	13	77.9	0.001	0.009	42.4319;-76.49885
10/17/2018 12:11			0.001	0.009	
10/17/2018 12:12			0.001	0.009	
10/17/2018 12:13			0.001	0.009	
10/17/2018 12:14			0.001	0.009	
10/17/2018 12:15	13	88.1	0.001	0.009	42.43187;-76.49886
10/17/2018 12:16			0.001	0.008	
10/17/2018 12:17			0.001	0.009	
10/17/2018 12:18			0.001	0.009	
10/17/2018 12:19			0.001	0.008	
10/17/2018 12:20	13	85	0.001	0.009	42.43194;-76.49884
10/17/2018 12:21			0.001	0.008	
10/17/2018 12:22			0.001	0.009	
10/17/2018 12:23			0.001	0.009	
10/17/2018 12:24			0.001	0.009	
10/17/2018 12:25	13	86	0.001	0.008	42.43184;-76.49879
10/17/2018 12:26			0.001	0.009	
10/17/2018 12:27			0.001	0.009	
10/17/2018 12:28			0.001	0.009	
10/17/2018 12:29			0.001	0.009	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/17/2018 12:30	13	86	0.001	0.008	42.43185;-76.4988
10/17/2018 12:31			0.001	0.008	
10/17/2018 12:32			0.001	0.008	
10/17/2018 12:33			0.001	0.008	
10/17/2018 12:34			0.001	0.008	
10/17/2018 12:35	13	88.1	0.001	0.008	42.43189;-76.49883
10/17/2018 12:36			0.001	0.009	
10/17/2018 12:37			0.001	0.009	
10/17/2018 12:38			0.001	0.009	
10/17/2018 12:39			0.001	0.009	
10/17/2018 12:40	12.9	83	0.001	0.009	42.43191;-76.49882
10/17/2018 12:41			0.001	0.009	
10/17/2018 12:42			0.001	0.009	
10/17/2018 12:43			0.001	0.009	
10/17/2018 12:44			0.001	0.009	
10/17/2018 12:45	12.9	79	0.001	0.009	42.43184;-76.49879
10/17/2018 12:46			0.001	0.008	
10/17/2018 12:47			0.001	0.009	
10/17/2018 12:48			0.001	0.009	
10/17/2018 12:49			0.001	0.008	
10/17/2018 12:50	12.9	75.9	0.001	0.009	42.43174;-76.49881
10/17/2018 12:51			0.001	0.009	
10/17/2018 12:52			0.001	0.009	
10/17/2018 12:53			0.001	0.009	
10/17/2018 12:54			0.001	0.009	
10/17/2018 12:55	12.9	95.1	0.001	0.009	42.43179;-76.49879
10/17/2018 12:56			0.001	0.009	
10/17/2018 12:57			0.001	0.009	
10/17/2018 12:58			0.001	0.009	
10/17/2018 12:59			0.001	0.009	
10/17/2018 13:00	12.9	79	0.001	0.009	42.43172;-76.49876
10/17/2018 13:01			0.001	0.009	
10/17/2018 13:02			0.001	0.009	
10/17/2018 13:03			0.001	0.009	
10/17/2018 13:04			0.001	0.009	
10/17/2018 13:05	12.9	76.9	0.001	0.009	42.43163;-76.49877
10/17/2018 13:06			0.002	0.009	
10/17/2018 13:07			0.002	0.009	
10/17/2018 13:08			0.002	0.009	
10/17/2018 13:09			0.002	0.009	
10/17/2018 13:10	12.9	83	0.002	0.009	42.4318;-76.49885
10/17/2018 13:11			0.002	0.009	
10/17/2018 13:12			0.002	0.009	
10/17/2018 13:13			0.002	0.009	
10/17/2018 13:14			0.002	0.009	
10/17/2018 13:15	12.9	94.1	0.002	0.009	
10/17/2018 13:15					42.43167;-76.49883
10/17/2018 13:16			0.002	0.009	
10/17/2018 13:17			0.002	0.009	
10/17/2018 13:18			0.002	0.009	
10/17/2018 13:19			0.002	0.009	
10/17/2018 13:20	12.9	84	0.002	0.009	42.43166;-76.49886
10/17/2018 13:21			0.002	0.009	
10/17/2018 13:22			0.002	0.009	
10/17/2018 13:23			0.002	0.009	
10/17/2018 13:24			0.002	0.009	
10/17/2018 13:25	12.9	76.9	0.002	0.009	42.43164;-76.49883
10/17/2018 13:26			0.002	0.009	
10/17/2018 13:27			0.002	0.009	
10/17/2018 13:28			0.002	0.009	
10/17/2018 13:29			0.002	0.009	
10/17/2018 13:30	12.9	95.1	0.002	0.011	42.43162;-76.49887
10/17/2018 13:31			0.002	0.011	
10/17/2018 13:32			0.002	0.009	
10/17/2018 13:33			0.002	0.009	
10/17/2018 13:34			0.002	0.009	
10/17/2018 13:35	12.9	80	0.002	0.009	42.43173;-76.49888
10/17/2018 13:36			0.002	0.009	
10/17/2018 13:37			0.002	0.009	
10/17/2018 13:38			0.002	0.009	
10/17/2018 13:39			0.002	0.009	
10/17/2018 13:40	12.9	87	0.002	0.009	42.43182;-76.4989
10/17/2018 13:41			0.002	0.009	
10/17/2018 13:42			0.002	0.009	
10/17/2018 13:43			0.002	0.009	
10/17/2018 13:44			0.002	0.009	
10/17/2018 13:45	12.9	87	0.002	0.009	42.43178;-76.49884
10/17/2018 13:46			0.002	0.009	
10/17/2018 13:47			0.002	0.009	
10/17/2018 13:48			0.002	0.009	
10/17/2018 13:49			0.002	0.011	
10/17/2018 13:50	12.9	79	0.002	0.009	42.43174;-76.49883
10/17/2018 13:51			0.002	0.009	
10/17/2018 13:52			0.002	0.009	
10/17/2018 13:53			0.002	0.009	
10/17/2018 13:54			0.002	0.009	
10/17/2018 13:55	12.9	76.9	0.002	0.009	42.43168;-76.49885
10/17/2018 13:56			0.002	0.009	
10/17/2018 13:57			0.002	0.009	
10/17/2018 13:58			0.003	0.009	
10/17/2018 13:59			0.003	0.009	
10/17/2018 14:00	12.9	80	0.003	0.009	42.4317;-76.49879
10/17/2018 14:01			0.003	0.009	
10/17/2018 14:02			0.003	0.009	
10/17/2018 14:03			0.003	0.009	
10/17/2018 14:04			0.003	0.009	
10/17/2018 14:05	12.9	96.2	0.003	0.009	42.43189;-76.49892
10/17/2018 14:06			0.003	0.009	
10/17/2018 14:07			0.003	0.018	
10/17/2018 14:08			0.003	0.011	
10/17/2018 14:09			0.003	0.009	
10/17/2018 14:10	12.9	75.9	0.003	0.009	42.43182;-76.49888
10/17/2018 14:11			0.003	0.009	
10/17/2018 14:12			0.003	0.009	
10/17/2018 14:13			0.003	0.009	
10/17/2018 14:14			0.003	0.009	
10/17/2018 14:15	12.9	76.9	0.003	0.009	42.43182;-76.49892
10/17/2018 14:16			0.003	0.009	
10/17/2018 14:17			0.003	0.009	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/17/2018 14:18			0.003	0.009	
10/17/2018 14:19			0.003	0.01	
10/17/2018 14:20	12.9	75.9	0.003	0.009	42.43183;-76.49897
10/17/2018 14:21			0.003	0.009	
10/17/2018 14:22			0.003	0.009	
10/17/2018 14:23			0.003	0.01	
10/17/2018 14:24			0.003	0.01	
10/17/2018 14:25	12.9	80	0.003	0.009	42.43188;-76.499
10/17/2018 14:26			0.003	0.009	
10/17/2018 14:27			0.003	0.009	
10/17/2018 14:28			0.003	0.009	
10/17/2018 14:29			0.003	0.009	
10/17/2018 14:30	12.9	77.9	0.003	0.009	42.43258;-76.49974
10/17/2018 14:31			0.003	0.009	
10/17/2018 14:32			0.003	0.01	
10/17/2018 14:33			0.003	0.009	
10/17/2018 14:34			0.003	0.009	
10/17/2018 14:35	12.9	76.9	0.003	0.009	42.43167;-76.49879
10/17/2018 14:36			0.003	0.009	
10/17/2018 14:37			0.003	0.009	
10/17/2018 14:38			0.003	0.008	
10/17/2018 14:39			0.003	0.008	
10/17/2018 14:40	12.8	82	0.003	0.008	42.43176;-76.49881
10/17/2018 14:41			0.003	0.008	
10/17/2018 14:42			0.003	0.009	
10/17/2018 14:43			0.003	0.009	
10/17/2018 14:44			0.003	0.008	
10/17/2018 14:45	12.8	75.9	0.003	0.009	42.43178;-76.49882
10/17/2018 14:46			0.003	0.008	
10/17/2018 14:47			0.003	0.008	
10/17/2018 14:48			0.003	0.009	
10/17/2018 14:49			0.003	0.009	
10/17/2018 14:50	12.8	77.9	0.003	0.008	42.43185;-76.49886
10/17/2018 14:51			0.004	0.009	
10/17/2018 14:52			0.004	0.009	
10/17/2018 14:53			0.004	0.009	
10/17/2018 14:54			0.004	0.009	
10/17/2018 14:55	12.8	96.2	0.004	0.009	42.43182;-76.49888
10/17/2018 14:56			0.004	0.009	
10/17/2018 14:57			0.004	0.009	
10/17/2018 14:58			0.004	0.009	
10/17/2018 14:59			0.004	0.009	
10/17/2018 15:00	12.8	96.2	0.004	0.009	42.4318;-76.49904
10/17/2018 15:01			0.004	0.01	
10/17/2018 15:02			0.004	0.009	
10/17/2018 15:03			0.004	0.009	
10/17/2018 15:04			0.004	0.009	
10/17/2018 15:05	12.8	84	0.004	0.009	42.43176;-76.49879
10/17/2018 15:06			0.004	0.008	
10/17/2018 15:07			0.004	0.009	
10/17/2018 15:08			0.004	0.008	
10/17/2018 15:09			0.004	0.009	
10/17/2018 15:10	12.8	91.1	0.004	0.009	42.43181;-76.49887
10/17/2018 15:11			0.004	0.009	
10/17/2018 15:12			0.004	0.009	
10/17/2018 15:13			0.004	0.009	
10/17/2018 15:14			0.004	0.009	
10/17/2018 15:15	12.8	84	0.004	0.009	42.43181;-76.49884
10/17/2018 15:16			0.004	0.008	
10/17/2018 15:17			0.004	0.009	
10/17/2018 15:18			0.004	0.009	
10/17/2018 15:19			0.004	0.009	
10/17/2018 15:20	12.8	85	0.004	0.009	42.43182;-76.49884
10/17/2018 15:21			0.004	0.009	
10/17/2018 15:22			0.004	0.009	
10/17/2018 15:23			0.004	0.009	
10/17/2018 15:24			0.004	0.009	
10/17/2018 15:25	12.8	77.9	0.004	0.009	42.43182;-76.49883
10/17/2018 15:26			0.004	0.009	
10/17/2018 15:27			0.004	0.009	
10/17/2018 15:28			0.004	0.009	
10/17/2018 15:29			0.004	0.009	
10/17/2018 15:30	12.8	83	0.004	0.009	42.43177;-76.49879
10/17/2018 15:31			0.004	0.009	
10/17/2018 15:32			0.004	0.009	
10/17/2018 15:33			0.004	0.009	
10/17/2018 15:34			0.004	0.009	
10/17/2018 15:35	12.8	79	0.004	0.009	42.43179;-76.49879
10/17/2018 15:36			0.004	0.01	
10/17/2018 15:37			0.004	0.01	
10/17/2018 15:38			0.004	0.012	
10/17/2018 15:39			0.004	0.01	
10/17/2018 15:40	12.8	77.9	0.004	0.009	42.43181;-76.49873
10/17/2018 15:41			0.004	0.009	
10/17/2018 15:42			0.004	0.009	
10/17/2018 15:43			0.004	0.009	
10/17/2018 15:44			0.005	0.009	
10/17/2018 15:45	12.8	76.9	0.005	0.01	42.43177;-76.49877
10/17/2018 15:46			0.005	0.009	
10/17/2018 15:47			0.005	0.009	
10/17/2018 15:48			0.005	0.01	
10/17/2018 15:49			0.005	0.01	
10/17/2018 15:50	12.8	88.1	0.005	0.01	42.43177;-76.4987
10/17/2018 15:51			0.005	0.009	
10/17/2018 15:52			0.005	0.009	
10/17/2018 15:53			0.005	0.009	
10/17/2018 15:54			0.005	0.009	
10/17/2018 15:55	12.8	89.1	0.005	0.009	42.43161;-76.49879
10/17/2018 15:56			0.005	0.01	
10/17/2018 15:57			0.005	0.01	
10/17/2018 15:58			0.005	0.01	
10/17/2018 15:59			0.005	0.01	
10/17/2018 16:00	12.8	84	0.005	0.01	42.43173;-76.49872
10/17/2018 16:01			0.005	0.01	
10/17/2018 16:02			0.005	0.01	
10/17/2018 16:03			0.005	0.01	
10/17/2018 16:04			0.005	0.01	
10/17/2018 16:05	12.8	77.9	0.005	0.01	42.43169;-76.49879
10/17/2018 16:06			0.005	0.012	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/17/2018 16:07			0.005	0.01	
10/17/2018 16:08			0.005	0.01	
10/17/2018 16:09			0.005	0.01	
10/17/2018 16:10	12.8	85	0.005	0.01	42.43161;-76.49865
10/17/2018 16:11			0.005	0.01	
10/17/2018 16:12			0.005	0.01	
10/17/2018 16:13			0.005	0.01	
10/17/2018 16:14			0.005	0.01	
10/17/2018 16:15	12.7	76.9	0.005	0.009	42.4317;-76.49871
10/17/2018 16:16			0.005	0.009	
10/17/2018 16:17			0.005	0.01	
10/17/2018 16:18			0.005	0.01	
10/17/2018 16:19			0.005	0.01	
10/17/2018 16:20	12.8	76.9	0.005	0.01	42.43162;-76.49888
10/17/2018 16:21			0.005	0.01	
10/17/2018 16:22			0.005	0.01	
10/17/2018 16:23			0.005	0.01	
10/17/2018 16:24			0.005	0.01	
10/17/2018 16:25	12.7	85	0.005	0.01	42.43191;-76.49878
10/17/2018 16:26			0.005	0.01	
10/17/2018 16:27			0.005	0.01	
10/17/2018 16:28			0.005	0.01	
10/17/2018 16:29			0.005	0.01	
10/17/2018 16:30	12.7	77.9	0.005	0.01	42.43181;-76.49879
10/17/2018 16:31			0.005	0.01	
10/17/2018 16:32			0.005	0.01	
10/17/2018 16:33			0.006	0.01	
10/17/2018 16:34			0.006	0.011	
10/17/2018 16:35	12.7	77.9	0.006	0.011	42.43175;-76.49882
10/17/2018 16:36			0.006	0.011	
10/17/2018 16:37			0.006	0.011	
10/17/2018 16:38			0.006	0.01	
10/17/2018 16:39			0.006	0.01	
10/17/2018 16:40	12.7	93.1	0.006	0.01	42.43192;-76.49878
10/17/2018 16:41			0.006	0.01	
10/17/2018 16:42			0.006	0.01	
10/17/2018 16:43			0.006	0.01	
10/17/2018 16:44			0.006	0.01	
10/17/2018 16:45	12.7	92.1	0.006	0.01	42.4313;-76.49855
10/17/2018 16:46			0.006	0.01	
10/17/2018 16:47			0.006	0.01	
10/17/2018 16:48			0.006	0.01	
10/17/2018 16:49			0.006	0.01	
10/17/2018 16:50	12.7	81	0.006	0.01	42.43148;-76.49857
10/17/2018 16:51			0.006	0.009	
10/17/2018 16:52			0.006	0.009	
10/17/2018 16:53			0.006	0.009	
10/17/2018 16:54			0.006	0.009	
10/17/2018 16:55	12.7	77.9	0.006	0.009	42.43151;-76.49859
10/17/2018 16:56			0.006	0.009	
10/17/2018 16:57			0.006	0.009	
10/17/2018 16:58			0.006	0.009	
10/17/2018 16:59			0.006	0.009	
10/17/2018 17:00	12.7	79	0.006	0.009	42.43171;-76.49877
10/17/2018 17:01			0.006	0.009	
10/17/2018 17:02			0.006	0.009	
10/17/2018 17:03			0.006	0.009	
10/17/2018 17:04			0.006	0.009	
10/17/2018 17:05	12.7	95.1	0.006	0.009	42.43185;-76.49885
10/17/2018 17:06			0.006	0.009	
10/17/2018 17:07			0.006	0.009	
10/17/2018 17:08			0.006	0.009	
10/17/2018 17:09			0.006	0.009	
10/17/2018 17:10	12.7	79	0.006	0.009	42.43184;-76.49881
10/17/2018 17:11			0.006	0.009	
10/17/2018 17:12			0.006	0.009	
10/17/2018 17:13			0.006	0.009	
10/17/2018 17:14			0.006	0.009	
10/17/2018 17:15	12.7	96.2	0.006	0.009	42.43198;-76.49897
10/17/2018 17:16			0.006	0.009	
10/17/2018 17:17			0.006	0.009	
10/17/2018 17:18			0.006	0.009	
10/17/2018 17:19			0.006	0.009	
10/17/2018 17:20	12.7	77.9	0.006	0.008	42.43192;-76.49889
10/17/2018 17:21			0.006	0.008	
10/17/2018 17:22			0.006	0.007	
10/17/2018 17:23			0.006	0.007	
10/17/2018 17:24			0.006	0.007	
10/17/2018 17:25	12.7	77.9	0.007	0.007	42.43176;-76.49876
10/17/2018 17:26			0.007	0.007	
10/17/2018 17:27			0.007	0.007	
10/17/2018 17:28			0.007	0.007	
10/17/2018 17:29			0.007	0.006	
10/17/2018 17:30	12.7	80	0.007	0.006	42.43174;-76.49876
10/17/2018 17:31			0.007	0.006	
10/17/2018 17:32			0.007	0.006	
10/17/2018 17:33			0.007	0.006	
10/17/2018 17:34			0.007	0.006	
10/17/2018 17:35	12.7	83	0.007	0.006	42.43182;-76.49893
10/17/2018 17:36			0.007	0.006	
10/17/2018 17:37			0.007	0.006	
10/17/2018 17:38			0.007	0.005	
10/17/2018 17:39			0.007	0.006	
10/17/2018 17:40	12.6	82	0.007	0.006	42.43178;-76.49883
10/17/2018 17:41			0.007	0.005	
10/17/2018 17:42			0.007	0.005	
10/17/2018 17:43			0.007	0.005	
10/17/2018 17:44			0.007	0.005	
10/17/2018 17:45	12.6	79	0.007	0.004	42.43178;-76.49881
10/17/2018 17:46			0.007	0.004	
10/17/2018 17:47			0.007	0.004	
10/17/2018 17:48			0.007	0.004	
10/17/2018 17:49			0.007	0.004	
10/17/2018 17:50	12.6	85	0.007	0.004	42.4318;-76.49883
10/17/2018 17:51			0.007	0.004	
10/17/2018 17:52			0.007	0.004	
10/17/2018 17:53			0.007	0.004	
10/17/2018 17:54			0.007	0.004	
10/17/2018 17:55	12.6	80	0.007	0.004	42.43181;-76.49883

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/17/2018 17:56			0.007	0.004	
10/17/2018 17:57			0.007	0.004	
10/17/2018 17:58			0.007	0.004	
10/17/2018 17:59			0.007	0.004	
10/17/2018 18:00	12.6	87	0.007	0.004	42.4317;-76.49873
10/17/2018 18:01			0.007	0.004	
10/17/2018 18:02			0.007	0.005	
10/17/2018 18:03			0.007	0.005	
10/17/2018 18:04			0.007	0.005	
10/17/2018 18:05	12.6	79	0.007	0.005	42.4317;-76.49875
10/17/2018 18:06			0.007	0.005	
10/17/2018 18:07			0.007	0.005	
10/17/2018 18:08			0.007	0.006	
10/17/2018 18:09			0.007	0.006	
10/17/2018 18:10	12.6	86	0.007	0.006	42.43175;-76.49879
10/17/2018 18:11			0.007	0.006	
10/17/2018 18:12			0.007	0.005	
10/17/2018 18:13			0.007	0.005	
10/17/2018 18:14			0.007	0.005	
10/17/2018 18:15	12.6	80	0.007	0.005	42.43176;-76.49879
10/17/2018 18:16			0.007	0.008	
10/17/2018 18:17			0.007	0.006	
10/17/2018 18:18			0.007	0.006	
10/17/2018 18:19			0.007	0.006	
10/17/2018 18:20	12.6	80	0.007	0.006	42.43177;-76.49876
10/17/2018 18:21			0.007	0.005	
10/17/2018 18:22			0.007	0.005	
10/17/2018 18:23			0.007	0.005	
10/17/2018 18:24			0.007	0.005	
10/17/2018 18:25	12.6	80	0.007	0.005	42.43175;-76.49881
10/17/2018 18:26			0.007	0.005	
10/17/2018 18:27			0.007	0.005	
10/17/2018 18:28			0.007	0.005	
10/17/2018 18:29			0.007	0.005	
10/17/2018 18:30	12.6	80	0.007	0.005	42.4318;-76.49885
10/17/2018 18:31			0.007	0.005	
10/17/2018 18:32			0.007	0.006	
10/17/2018 18:33			0.007	0.005	
10/17/2018 18:34			0.007	0.006	
10/17/2018 18:35	12.6	79	0.007	0.006	42.43172;-76.49894
10/17/2018 18:36			0.007	0.006	
10/17/2018 18:37			0.007	0.006	
10/17/2018 18:38			0.007	0.006	
10/17/2018 18:39			0.007	0.006	
10/17/2018 18:40	12.6	85	0.007	0.006	42.43173;-76.49889
10/17/2018 18:41			0.007	0.006	
10/17/2018 18:42			0.007	0.006	
10/17/2018 18:43			0.007	0.006	
10/17/2018 18:44			0.007	0.006	
10/17/2018 18:45	12.6	80	0.007	0.006	42.43171;-76.49883
10/17/2018 18:46			0.007	0.006	
10/17/2018 18:47			0.007	0.006	
10/17/2018 18:48			0.007	0.006	
10/17/2018 18:49			0.007	0.006	
10/17/2018 18:50	12.6	80	0.007	0.006	42.43173;-76.49879
10/17/2018 18:51			0.007	0.006	
10/17/2018 18:52			0.007	0.006	
10/17/2018 18:53			0.007	0.006	
10/17/2018 18:54			0.008	0.006	
10/17/2018 18:55	12.5	103.2	0.008	0.006	42.43179;-76.49883
10/17/2018 18:56			0.008	0.006	
10/17/2018 18:57			0.008	0.006	
10/17/2018 18:58			0.008	0.006	
10/17/2018 18:59			0.008	0.006	
10/17/2018 19:00	12.5	85	0.008	0.006	42.43174;-76.49881
10/17/2018 19:01			0.008	0.006	
10/17/2018 19:02			0.008	0.006	
10/17/2018 19:03			0.008	0.006	
10/17/2018 19:04			0.008	0.006	
10/17/2018 19:05	12.5	79	0.008	0.006	42.43141;-76.49873
10/17/2018 19:06			0.008	0.006	
10/17/2018 19:07			0.008	0.006	
10/17/2018 19:08			0.008	0.006	
10/17/2018 19:09			0.008	0.006	
10/17/2018 19:10	12.5	79	0.008	0.006	
10/17/2018 19:10					42.43174;-76.49873
10/17/2018 19:11			0.008	0.006	
10/17/2018 19:12			0.008	0.006	
10/17/2018 19:13			0.008	0.006	
10/17/2018 19:14			0.008	0.006	
10/17/2018 19:15	12.5	89.1	0.008	0.006	
10/17/2018 19:15					42.43159;-76.4987
10/17/2018 19:16			0.008	0.006	
10/17/2018 19:17			0.008	0.006	
10/17/2018 19:18			0.008	0.006	
10/17/2018 19:19			0.008	0.006	
10/17/2018 19:20	12.5	81	0.008	0.006	
10/17/2018 19:20					42.43124;-76.49863
10/17/2018 19:21			0.008	0.005	
10/17/2018 19:22			0.008	0.006	
10/17/2018 19:23			0.008	0.006	
10/17/2018 19:24			0.008	0.006	
10/17/2018 19:25	12.5	79	0.008	0.005	
10/17/2018 19:25					42.43168;-76.49876
10/17/2018 19:26			0.008	0.007	
10/17/2018 19:27			0.008	0.006	
10/17/2018 19:28			0.008	0.005	
10/17/2018 19:29			0.008	0.006	
10/17/2018 19:30	12.5	113.4	0.008	0.005	
10/17/2018 19:30					42.43181;-76.49881
10/17/2018 19:31			0.008	0.005	
10/17/2018 19:32			0.008	0.005	
10/17/2018 19:33			0.008	0.005	
10/17/2018 19:34			0.008	0.005	
10/17/2018 19:35	12.5	83	0.008	0.005	42.43193;-76.49889
10/17/2018 19:36			0.008	0.005	
10/17/2018 19:37			0.008	0.005	
10/17/2018 19:38			0.008	0.005	
10/17/2018 19:39			0.008	0.005	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/17/2018 19:40	12.5	87	0.008	0.005	42.43184;-76.49877
10/17/2018 19:41			0.008	0.005	
10/17/2018 19:42			0.008	0.004	
10/17/2018 19:43			0.008	0.004	
10/17/2018 19:44			0.008	0.004	
10/17/2018 19:45	12.5	91.1	0.008	0.004	42.43183;-76.49877
10/17/2018 19:46			0.008	0.004	
10/17/2018 19:47			0.008	0.004	
10/17/2018 19:48			0.008	0.004	
10/17/2018 19:49			0.008	0.004	
10/17/2018 19:50	12.5	91.1	0.008	0.004	42.43185;-76.49883
10/17/2018 19:51			0.008	0.004	
10/17/2018 19:52			0.008	0.004	
10/17/2018 19:53			0.008	0.004	
10/17/2018 19:54			0.008	0.004	
10/17/2018 19:55	12.5	111.3	0.008	0.004	42.43176;-76.49882
10/17/2018 19:56			0.008	0.004	
10/17/2018 19:57			0.008	0.004	
10/17/2018 19:58			0.008	0.004	
10/17/2018 19:59			0.008	0.005	
10/17/2018 20:00	12.5	79	0.008	0.004	42.43167;-76.49871
10/17/2018 20:01			0.008	0.004	
10/17/2018 20:02			0.008	0.004	
10/17/2018 20:03			0.008	0.004	
10/17/2018 20:04			0.008	0.004	
10/17/2018 20:05	12.5	83	0.008	0.004	42.43177;-76.49875
10/17/2018 20:06			0.008	0.004	
10/17/2018 20:07			0.008	0.004	
10/17/2018 20:08			0.008	0.004	
10/17/2018 20:09			0.008	0.004	
10/17/2018 20:10	12.5	82	0.008	0.004	42.43169;-76.49878
10/17/2018 20:11			0.008	0.004	
10/17/2018 20:12			0.008	0.004	
10/17/2018 20:13			0.008	0.004	
10/17/2018 20:14			0.008	0.004	
10/17/2018 20:15	12.5	80	0.008	0.004	42.4317;-76.49886
10/17/2018 20:16			0.008	0.004	
10/17/2018 20:17			0.008	0.004	
10/17/2018 20:18			0.008	0.004	
10/17/2018 20:19			0.008	0.004	
10/17/2018 20:20	12.5	79	0.008	0.004	42.4317;-76.49873
10/17/2018 20:21			0.008	0.004	
10/17/2018 20:22			0.008	0.004	
10/17/2018 20:23			0.008	0.004	
10/17/2018 20:24			0.008	0.004	
10/17/2018 20:25	12.4	80	0.008	0.004	42.43171;-76.49876
10/17/2018 20:26			0.008	0.004	
10/17/2018 20:27			0.008	0.004	
10/17/2018 20:28			0.008	0.004	
10/17/2018 20:29			0.008	0.004	
10/17/2018 20:30	12.4	115.4	0.008	0.004	42.4317;-76.49887
10/17/2018 20:31			0.008	0.004	
10/17/2018 20:32			0.008	0.004	
10/17/2018 20:33			0.008	0.003	
10/17/2018 20:34			0.008	0.003	
10/17/2018 20:35	12.4	88.1	0.008	0.003	42.43175;-76.49876
10/17/2018 20:36			0.008	0.003	
10/17/2018 20:37			0.008	0.003	
10/17/2018 20:38			0.008	0.003	
10/17/2018 20:39			0.008	0.003	
10/17/2018 20:40	12.4	93.1	0.008	0.003	42.43173;-76.49879
10/17/2018 20:41			0.008	0.003	
10/17/2018 20:42			0.008	0.003	
10/17/2018 20:43			0.008	0.003	
10/17/2018 20:44			0.008	0.003	
10/17/2018 20:45	12.4	80	0.008	0.003	42.43169;-76.49881
10/17/2018 20:46			0.008	0.003	
10/17/2018 20:47			0.008	0.003	
10/17/2018 20:48			0.008	0.003	
10/17/2018 20:49			0.008	0.003	
10/17/2018 20:50	12.4	92.1	0.008	0.003	42.43172;-76.49884
10/17/2018 20:51			0.008	0.003	
10/17/2018 20:52			0.008	0.003	
10/17/2018 20:53			0.008	0.003	
10/17/2018 20:54			0.008	0.003	
10/17/2018 20:55	12.4	91.1	0.008	0.003	42.43174;-76.49875
10/17/2018 20:56			0.008	0.003	
10/17/2018 20:57			0.008	0.003	
10/17/2018 20:58			0.008	0.003	
10/17/2018 20:59			0.008	0.003	
10/17/2018 21:00	12.4	79	0.008	0.003	42.43174;-76.49881
10/17/2018 21:01			0.008	0.003	
10/17/2018 21:02			0.008	0.003	
10/17/2018 21:03			0.008	0.003	
10/17/2018 21:04			0.008	0.003	
10/17/2018 21:05	12.4	83	0.008	0.003	42.43177;-76.49883
10/17/2018 21:06			0.008	0.003	
10/17/2018 21:07			0.008	0.003	
10/17/2018 21:08			0.008	0.003	
10/17/2018 21:09			0.008	0.003	
10/17/2018 21:10	12.4	80	0.008	0.003	42.43176;-76.49882
10/17/2018 21:11			0.008	0.003	
10/17/2018 21:12			0.008	0.003	
10/17/2018 21:13			0.008	0.003	
10/17/2018 21:14			0.008	0.005	
10/17/2018 21:15	12.4	82	0.008	0.003	42.43171;-76.49886
10/17/2018 21:16			0.008	0.003	
10/17/2018 21:17			0.008	0.003	
10/17/2018 21:18			0.008	0.003	
10/17/2018 21:19			0.008	0.003	
10/17/2018 21:20	12.4	80	0.008	0.003	42.43176;-76.49884
10/17/2018 21:21			0.008	0.003	
10/17/2018 21:22			0.008	0.003	
10/17/2018 21:23			0.008	0.003	
10/17/2018 21:24			0.008	0.003	
10/17/2018 21:25	12.4	80	0.008	0.003	42.43176;-76.49886
10/17/2018 21:26			0.008	0.003	
10/17/2018 21:27			0.008	0.003	
10/17/2018 21:28			0.008	0.003	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/17/2018 21:29			0.008	0.004	
10/17/2018 21:30	12.4	102.2	0.008	0.003	42.43174;-76.49882
10/17/2018 21:31			0.008	0.003	
10/18/2018 11:59			0	0.004	
10/18/2018 12:00	13	76.9	0	0.004	
10/18/2018 12:00					42.43179;-76.4987
10/18/2018 12:01			0	0.004	
10/18/2018 12:02			0	0.004	
10/18/2018 12:03			0	0.004	
10/18/2018 12:04			0	0.005	
10/18/2018 12:05	13	86	0	0.004	
10/18/2018 12:05					42.43188;-76.49877
10/18/2018 12:06			0	0.004	
10/18/2018 12:07			0	0.004	
10/18/2018 12:08			0	0.004	
10/18/2018 12:09			0	0.004	
10/18/2018 12:10	13	80	0	0.004	
10/18/2018 12:10					42.43186;-76.49881
10/18/2018 12:11			0	0.004	
10/18/2018 12:12			0	0.004	
10/18/2018 12:13			0	0.003	
10/18/2018 12:14			0	0.003	
10/18/2018 12:15	13	95.1	0	0.003	
10/18/2018 12:15					42.43188;-76.49883
10/18/2018 12:16			0	0.004	
10/18/2018 12:17			0	0.004	
10/18/2018 12:18			0	0.004	
10/18/2018 12:19			0	0.004	
10/18/2018 12:20	13	80	0	0.003	
10/18/2018 12:20					42.43186;-76.49884
10/18/2018 12:21			0	0.003	
10/18/2018 12:22			0	0.003	
10/18/2018 12:23			0	0.005	
10/18/2018 12:24			0	0.003	
10/18/2018 12:25	13	85	0	0.003	
10/18/2018 12:25					42.43181;-76.49879
10/18/2018 12:26			0	0.003	
10/18/2018 12:27			0	0.004	
10/18/2018 12:28			0	0.004	
10/18/2018 12:29			0	0.004	
10/18/2018 12:30	13	84	0	0.004	
10/18/2018 12:30					42.43164;-76.49879
10/18/2018 12:31			0	0.003	
10/18/2018 12:32			0	0.003	
10/18/2018 12:33			0	0.004	
10/18/2018 12:34			0	0.003	
10/18/2018 12:35	13	82	0	0.004	
10/18/2018 12:35					42.43173;-76.49881
10/18/2018 12:36			0	0.006	
10/18/2018 12:37			0	0.005	
10/18/2018 12:38			0	0.006	
10/18/2018 12:39			0	0.006	
10/18/2018 12:40	12.9	75.9	0	0.004	
10/18/2018 12:40					42.43176;-76.49881
10/18/2018 12:41			0	0.004	
10/18/2018 12:42			0	0.004	
10/18/2018 12:43			0	0.004	
10/18/2018 12:44			0	0.004	
10/18/2018 12:45	12.9	86	0	0.003	
10/18/2018 12:45					42.43176;-76.49884
10/18/2018 12:46			0	0.004	
10/18/2018 12:47			0	0.003	
10/18/2018 12:48			0	0.003	
10/18/2018 12:49			0	0.004	
10/18/2018 12:50	12.9	77.9	0	0.003	
10/18/2018 12:50					42.43164;-76.49885
10/18/2018 12:51			0	0.003	
10/18/2018 12:52			0	0.004	
10/18/2018 12:53			0	0.004	
10/18/2018 12:54			0	0.006	
10/18/2018 12:55	12.9	77.9	0	0.004	
10/18/2018 12:55					42.43171;-76.49883
10/18/2018 12:56			0	0.004	
10/18/2018 12:57			0	0.004	
10/18/2018 12:58			0	0.003	
10/18/2018 12:59			0	0.004	
10/18/2018 13:00	12.9	103.2	0	0.004	
10/18/2018 13:00					42.43173;-76.4989
10/18/2018 13:01			0	0.005	
10/18/2018 13:02			0.001	0.003	
10/18/2018 13:03			0.001	0.003	
10/18/2018 13:04			0.001	0.003	
10/18/2018 13:05	12.9	76.9	0.001	0.004	
10/18/2018 13:05					42.43172;-76.49886
10/18/2018 13:06			0.001	0.003	
10/18/2018 13:07			0.001	0.004	
10/18/2018 13:08			0.001	0.004	
10/18/2018 13:09			0.001	0.004	
10/18/2018 13:10	12.9	77.9	0.001	0.004	
10/18/2018 13:10					42.43161;-76.49888
10/18/2018 13:11			0.001	0.004	
10/18/2018 13:12			0.001	0.005	
10/18/2018 13:13			0.001	0.004	
10/18/2018 13:14			0.001	0.004	
10/18/2018 13:15	12.9	77.9	0.001	0.004	
10/18/2018 13:15					42.43171;-76.49892
10/18/2018 13:16			0.001	0.004	
10/18/2018 13:17			0.001	0.004	
10/18/2018 13:18			0.001	0.004	
10/18/2018 13:19			0.001	0.004	
10/18/2018 13:20	12.9	86	0.001	0.004	
10/18/2018 13:20					42.43188;-76.49889
10/18/2018 13:21			0.001	0.004	
10/18/2018 13:22			0.001	0.004	
10/18/2018 13:23			0.001	0.004	
10/18/2018 13:24			0.001	0.004	
10/18/2018 13:25	12.9	75.9	0.001	0.004	
10/18/2018 13:25					42.43178;-76.49891
10/18/2018 13:26			0.001	0.004	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/18/2018 13:27			0.001	0.004	
10/18/2018 13:28			0.001	0.004	
10/18/2018 13:29			0.001	0.004	
10/18/2018 13:30	12.9	83	0.001	0.004	
10/18/2018 13:30					42.43173;-76.49879
10/18/2018 13:31			0.001	0.004	
10/18/2018 13:32			0.001	0.004	
10/18/2018 13:33			0.001	0.004	
10/18/2018 13:34			0.001	0.003	
10/18/2018 13:35	12.9	76.9	0.001	0.018	
10/18/2018 13:35					42.43172;-76.4989
10/18/2018 13:36			0.001	0.011	
10/18/2018 13:37			0.001	0.004	
10/18/2018 13:38			0.001	0.004	
10/18/2018 13:39			0.001	0.004	
10/18/2018 13:40	12.9	80	0.001	0.003	
10/18/2018 13:40					42.43164;-76.49891
10/18/2018 13:41			0.001	0.003	
10/18/2018 13:42			0.001	0.004	
10/18/2018 13:43			0.001	0.003	
10/18/2018 13:44			0.001	0.003	
10/18/2018 13:45	12.9	81	0.001	0.004	
10/18/2018 13:45					42.43164;-76.49889
10/18/2018 13:46			0.001	0.004	
10/18/2018 13:47			0.001	0.003	
10/18/2018 13:48			0.001	0.003	
10/18/2018 13:49			0.001	0.003	
10/18/2018 13:50	12.9	88.1	0.001	0.003	
10/18/2018 13:50					42.43167;-76.49886
10/18/2018 13:51			0.001	0.003	
10/18/2018 13:52			0.001	0.003	
10/18/2018 13:53			0.001	0.003	
10/18/2018 13:54			0.001	0.003	
10/18/2018 13:55	12.8	76.9	0.001	0.004	
10/18/2018 13:55					42.43174;-76.49891
10/18/2018 13:56			0.001	0.003	
10/18/2018 13:57			0.001	0.004	
10/18/2018 13:58			0.001	0.004	
10/18/2018 13:59			0.001	0.004	
10/18/2018 14:00	12.8	76.9	0.001	0.003	
10/18/2018 14:00					42.43163;-76.4989
10/18/2018 14:01			0.001	0.004	
10/18/2018 14:02			0.001	0.003	
10/18/2018 14:03			0.001	0.003	
10/18/2018 14:04			0.001	0.003	
10/18/2018 14:05	12.8	77.9	0.001	0.004	
10/18/2018 14:05					42.43161;-76.49886
10/18/2018 14:06			0.001	0.003	
10/18/2018 14:07			0.001	0.004	
10/18/2018 14:08			0.001	0.003	
10/18/2018 14:09			0.001	0.003	
10/18/2018 14:10	12.8	83	0.001	0.003	
10/18/2018 14:10					42.43163;-76.4987
10/18/2018 14:11			0.001	0.003	
10/18/2018 14:12			0.001	0.003	
10/18/2018 14:13			0.001	0.003	
10/18/2018 14:14			0.001	0.003	
10/18/2018 14:15	12.8	77.9	0.001	0.003	
10/18/2018 14:15					42.43166;-76.49884
10/18/2018 14:16			0.001	0.003	
10/18/2018 14:17			0.001	0.004	
10/18/2018 14:18			0.001	0.003	
10/18/2018 14:19			0.001	0.003	
10/18/2018 14:20	12.8	77.9	0.001	0.003	
10/18/2018 14:20					42.43169;-76.49886
10/18/2018 14:21			0.001	0.004	
10/18/2018 14:22			0.001	0.003	
10/18/2018 14:23			0.001	0.004	
10/18/2018 14:24			0.001	0.003	
10/18/2018 14:25	12.8	76.9	0.001	0.003	
10/18/2018 14:25					42.43168;-76.49887
10/18/2018 14:26			0.001	0.003	
10/18/2018 14:27			0.001	0.003	
10/18/2018 14:28			0.001	0.003	
10/18/2018 14:29			0.001	0.004	
10/18/2018 14:30	12.9	97.2	0.001	0.004	
10/18/2018 14:30					42.43171;-76.49891
10/18/2018 14:31			0.001	0.004	
10/18/2018 14:32			0.001	0.004	
10/18/2018 14:33			0.001	0.004	
10/18/2018 14:34			0.001	0.004	
10/18/2018 14:35	12.8	77.9	0.001	0.004	
10/18/2018 14:35					42.4317;-76.49889
10/18/2018 14:36			0.001	0.003	
10/18/2018 14:37			0.001	0.004	
10/18/2018 14:38			0.001	0.004	
10/18/2018 14:39			0.001	0.004	
10/18/2018 14:40	12.8	87	0.001	0.003	
10/18/2018 14:40					42.43166;-76.4989
10/18/2018 14:41			0.001	0.003	
10/18/2018 14:42			0.001	0.003	
10/18/2018 14:43			0.001	0.003	
10/18/2018 14:44			0.001	0.003	
10/18/2018 14:45	12.8	77.9	0.001	0.004	
10/18/2018 14:45					42.43173;-76.49889
10/18/2018 14:46			0.001	0.004	
10/18/2018 14:47			0.001	0.003	
10/18/2018 14:48			0.001	0.004	
10/18/2018 14:49			0.001	0.004	
10/18/2018 14:50	12.8	80	0.001	0.003	
10/18/2018 14:50					42.43179;-76.49889
10/18/2018 14:51			0.001	0.003	
10/18/2018 14:52			0.001	0.004	
10/18/2018 14:53			0.001	0.004	
10/18/2018 14:54			0.001	0.004	
10/18/2018 14:55	12.8	88.1	0.001	0.004	
10/18/2018 14:55					42.43184;-76.49888
10/18/2018 14:56			0.001	0.004	
10/18/2018 14:57			0.001	0.004	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/18/2018 14:58			0.001	0.004	
10/18/2018 14:59			0.001	0.005	
10/18/2018 15:00	12.8	94.1	0.001	0.004	
10/18/2018 15:00					42.43202;-76.49899
10/18/2018 15:01			0.001	0.004	
10/18/2018 15:02			0.001	0.004	
10/18/2018 15:03			0.001	0.004	
10/18/2018 15:04			0.001	0.004	
10/18/2018 15:05	12.8	85	0.001	0.004	
10/18/2018 15:05					42.43213;-76.49886
10/18/2018 15:06			0.001	0.004	
10/18/2018 15:07			0.001	0.004	
10/18/2018 15:08			0.002	0.004	
10/18/2018 15:09			0.002	0.01	
10/18/2018 15:10	12.8	80	0.002	0.004	
10/18/2018 15:10					42.43214;-76.49881
10/18/2018 15:11			0.002	0.004	
10/18/2018 15:12			0.002	0.004	
10/18/2018 15:13			0.002	0.004	
10/18/2018 15:14			0.002	0.004	
10/18/2018 15:15	12.8	76.9	0.002	0.003	
10/18/2018 15:15					42.43177;-76.49879
10/18/2018 15:16			0.002	0.003	
10/18/2018 15:17			0.002	0.003	
10/18/2018 15:18			0.002	0.003	
10/18/2018 15:19			0.002	0.004	
10/18/2018 15:20	12.8	75.9	0.002	0.003	
10/18/2018 15:20					42.43172;-76.49886
10/18/2018 15:21			0.002	0.003	
10/18/2018 15:22			0.002	0.003	
10/18/2018 15:23			0.002	0.003	
10/18/2018 15:24			0.002	0.004	
10/18/2018 15:25	12.8	86	0.002	0.005	
10/18/2018 15:25					42.43189;-76.49881
10/18/2018 15:26			0.002	0.003	
10/18/2018 15:27			0.002	0.003	
10/18/2018 15:28			0.002	0.003	
10/18/2018 15:29			0.002	0.004	
10/18/2018 15:30	12.8	77.9	0.002	0.004	
10/18/2018 15:30					42.43176;-76.49884
10/18/2018 15:31			0.002	0.004	
10/18/2018 15:32			0.002	0.003	
10/18/2018 15:33			0.002	0.004	
10/18/2018 15:34			0.002	0.004	
10/18/2018 15:35	12.8	80	0.002	0.004	
10/18/2018 15:35					42.43137;-76.49868
10/18/2018 15:36			0.002	0.004	
10/18/2018 15:37			0.002	0.004	
10/18/2018 15:38			0.002	0.004	
10/18/2018 15:39			0.002	0.004	
10/18/2018 15:40	12.7	77.9	0.002	0.004	
10/18/2018 15:40					42.43182;-76.49883
10/18/2018 15:41			0.002	0.004	
10/18/2018 15:42			0.002	0.004	
10/18/2018 15:43			0.002	0.004	
10/18/2018 15:44			0.002	0.004	
10/18/2018 15:45	12.7	76.9	0.002	0.004	
10/18/2018 15:45					42.43179;-76.4988
10/18/2018 15:46			0.002	0.004	
10/18/2018 15:47			0.002	0.004	
10/18/2018 15:48			0.002	0.004	
10/18/2018 15:49			0.002	0.004	
10/18/2018 15:50	12.7	75.9	0.002	0.004	
10/18/2018 15:50					42.4317;-76.49881
10/18/2018 15:51			0.002	0.004	
10/18/2018 15:52			0.002	0.004	
10/18/2018 15:53			0.002	0.004	
10/18/2018 15:54			0.002	0.004	
10/18/2018 15:55	12.7	94.1	0.002	0.004	
10/18/2018 15:55					42.4317;-76.49885
10/18/2018 15:56			0.002	0.004	
10/18/2018 15:57			0.002	0.004	
10/18/2018 15:58			0.002	0.004	
10/18/2018 15:59			0.002	0.004	
10/18/2018 16:00	12.7	81	0.002	0.005	
10/18/2018 16:00					42.43177;-76.49881
10/18/2018 16:01			0.002	0.004	
10/18/2018 16:02			0.002	0.004	
10/18/2018 16:03			0.002	0.004	
10/18/2018 16:04			0.002	0.004	
10/18/2018 16:05	12.7	76.9	0.002	0.004	
10/18/2018 16:05					42.43172;-76.49883
10/18/2018 16:06			0.002	0.004	
10/18/2018 16:07			0.002	0.005	
10/18/2018 16:08			0.002	0.004	
10/18/2018 16:09			0.002	0.02	
10/18/2018 16:10	12.7	84	0.002	0.005	
10/18/2018 16:10					42.43165;-76.49886
10/18/2018 16:11			0.002	0.004	
10/18/2018 16:12			0.002	0.004	
10/18/2018 16:13			0.002	0.004	
10/18/2018 16:14			0.002	0.004	
10/18/2018 16:15	12.7	77.9	0.002	0.004	
10/18/2018 16:15					42.43161;-76.49884
10/18/2018 16:16			0.002	0.004	
10/18/2018 16:17			0.002	0.004	
10/18/2018 16:18			0.002	0.004	
10/18/2018 16:19			0.002	0.004	
10/18/2018 16:20	12.7	79	0.002	0.004	
10/18/2018 16:20					42.43166;-76.49889
10/18/2018 16:21			0.002	0.005	
10/18/2018 16:22			0.002	0.006	
10/18/2018 16:23			0.002	0.004	
10/18/2018 16:24			0.002	0.004	
10/18/2018 16:25	12.7	94.1	0.002	0.004	
10/18/2018 16:25					42.43169;-76.49895
10/18/2018 16:26			0.002	0.004	
10/18/2018 16:27			0.002	0.004	
10/18/2018 16:28			0.002	0.004	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/18/2018 16:29			0.002	0.004	
10/18/2018 16:30	12.7	90.1	0.002	0.005	
10/18/2018 16:30					42.43157;-76.49895
10/18/2018 16:31			0.002	0.005	
10/18/2018 16:32			0.002	0.005	
10/18/2018 16:33			0.002	0.014	
10/18/2018 16:34			0.002	0.004	
10/18/2018 16:35	12.7	80	0.002	0.006	
10/18/2018 16:35					42.43198;-76.49891
10/18/2018 16:36			0.002	0.005	
10/18/2018 16:37			0.002	0.004	
10/18/2018 16:38			0.002	0.005	
10/18/2018 16:39			0.002	0.005	
10/18/2018 16:40	12.7	85	0.002	0.009	
10/18/2018 16:40					42.43177;-76.49891
10/18/2018 16:41			0.002	0.004	
10/18/2018 16:42			0.002	0.004	
10/18/2018 16:43			0.002	0.006	
10/18/2018 16:44			0.002	0.004	
10/18/2018 16:45	12.7	80	0.002	0.004	
10/18/2018 16:45					42.43195;-76.49907
10/18/2018 16:46			0.002	0.004	
10/18/2018 16:47			0.002	0.004	
10/18/2018 16:48			0.002	0.004	
10/18/2018 16:49			0.002	0.005	
10/18/2018 16:50	12.7	90.1	0.002	0.004	
10/18/2018 16:50					42.43198;-76.49899
10/18/2018 16:51			0.002	0.004	
10/18/2018 16:52			0.002	0.004	
10/18/2018 16:53			0.002	0.004	
10/18/2018 16:54			0.002	0.004	
10/18/2018 16:55	12.7	96.2	0.002	0.005	
10/18/2018 16:55					42.43197;-76.49895
10/18/2018 16:56			0.003	0.004	
10/18/2018 16:57			0.003	0.004	
10/18/2018 16:58			0.003	0.004	
10/18/2018 16:59			0.003	0.004	
10/18/2018 17:00	12.7	80	0.003	0.005	
10/18/2018 17:00					42.43179;-76.49883
10/18/2018 17:01			0.003	0.005	
10/18/2018 17:02			0.003	0.004	
10/18/2018 17:03			0.003	0.004	
10/18/2018 17:04			0.003	0.004	
10/18/2018 17:05	12.7	77.9	0.003	0.004	
10/18/2018 17:05					42.43176;-76.49879
10/18/2018 17:06			0.003	0.004	
10/18/2018 17:07			0.003	0.004	
10/18/2018 17:08			0.003	0.008	
10/18/2018 17:09			0.003	0.006	
10/18/2018 17:10	12.7	85	0.003	0.004	
10/18/2018 17:10					42.43173;-76.49876
10/18/2018 17:11			0.003	0.004	
10/18/2018 17:12			0.003	0.005	
10/18/2018 17:13			0.003	0.004	
10/18/2018 17:14			0.003	0.004	
10/18/2018 17:15	12.7	93.1	0.003	0.004	
10/18/2018 17:15					42.43169;-76.49879
10/18/2018 17:16			0.003	0.004	
10/18/2018 17:17			0.003	0.004	
10/18/2018 17:18			0.003	0.004	
10/18/2018 17:19			0.003	0.004	
10/18/2018 17:20	12.7	89.1	0.003	0.004	
10/18/2018 17:20					42.43169;-76.49876
10/18/2018 17:21			0.003	0.004	
10/18/2018 17:22			0.003	0.004	
10/18/2018 17:23			0.003	0.004	
10/18/2018 17:24			0.003	0.004	
10/18/2018 17:25	12.7	79	0.003	0.004	
10/18/2018 17:25					42.4317;-76.49879
10/18/2018 17:26			0.003	0.005	
10/18/2018 17:27			0.003	0.004	
10/18/2018 17:28			0.003	0.004	
10/18/2018 17:29			0.003	0.004	
10/18/2018 17:30	12.6	85	0.003	0.004	42.43167;-76.49868
10/18/2018 17:31			0.003	0.004	
10/18/2018 17:32			0.003	0.004	
10/18/2018 17:33			0.003	0.004	
10/18/2018 17:34			0.003	0.004	
10/18/2018 17:35	12.6	102.2	0.003	0.004	42.43163;-76.49866
10/18/2018 17:36			0.003	0.004	
10/18/2018 17:37			0.003	0.004	
10/18/2018 17:38			0.003	0.004	
10/18/2018 17:39			0.003	0.004	
10/18/2018 17:40	12.6	89.1	0.003	0.004	42.43166;-76.49878
10/18/2018 17:41			0.003	0.004	
10/18/2018 17:42			0.003	0.004	
10/18/2018 17:43			0.003	0.004	
10/18/2018 17:44			0.003	0.004	
10/18/2018 17:45	12.6	90.1	0.003	0.004	42.43173;-76.49885
10/18/2018 17:46			0.003	0.004	
10/18/2018 17:47			0.003	0.004	
10/18/2018 17:48			0.003	0.004	
10/18/2018 17:49			0.003	0.004	
10/18/2018 17:50	12.6	87	0.003	0.004	42.43176;-76.49888
10/18/2018 17:51			0.003	0.004	
10/18/2018 17:52			0.003	0.004	
10/18/2018 17:53			0.003	0.004	
10/18/2018 17:54			0.003	0.004	
10/18/2018 17:55	12.6	85	0.003	0.004	42.43175;-76.49888
10/18/2018 17:56			0.003	0.004	
10/18/2018 17:57			0.003	0.004	
10/18/2018 17:58			0.003	0.004	
10/18/2018 17:59			0.003	0.004	
10/18/2018 18:00	12.6	79	0.003	0.004	42.43167;-76.49878
10/18/2018 18:01			0.003	0.004	
10/18/2018 18:02			0.003	0.004	
10/18/2018 18:03			0.003	0.004	
10/18/2018 18:04			0.003	0.004	
10/18/2018 18:05	12.6	102.2	0.003	0.004	42.43179;-76.49891

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/18/2018 18:06			0.003	0.004	
10/18/2018 18:07			0.003	0.004	
10/18/2018 18:08			0.003	0.004	
10/18/2018 18:09			0.003	0.004	
10/18/2018 18:10	12.6	81	0.003	0.004	42.43171;-76.49883
10/18/2018 18:11			0.003	0.004	
10/18/2018 18:12			0.003	0.004	
10/18/2018 18:13			0.003	0.004	
10/18/2018 18:14			0.003	0.004	
10/18/2018 18:15	12.6	82	0.003	0.004	42.43173;-76.49884
10/18/2018 18:16			0.003	0.004	
10/18/2018 18:17			0.003	0.004	
10/18/2018 18:18			0.003	0.004	
10/18/2018 18:19			0.003	0.004	
10/18/2018 18:20	12.6	91.1	0.003	0.004	42.43172;-76.49886
10/18/2018 18:21			0.003	0.004	
10/18/2018 18:22			0.003	0.004	
10/18/2018 18:23			0.003	0.004	
10/18/2018 18:24			0.003	0.004	
10/18/2018 18:25	12.6	100.2	0.003	0.004	42.43169;-76.49888
10/18/2018 18:26			0.003	0.004	
10/18/2018 18:27			0.003	0.004	
10/18/2018 18:28			0.003	0.004	
10/18/2018 18:29			0.003	0.004	
10/18/2018 18:30	12.6	82	0.003	0.004	42.43168;-76.49879
10/18/2018 18:31			0.003	0.004	
10/18/2018 18:32			0.003	0.004	
10/18/2018 18:33			0.003	0.004	
10/18/2018 18:34			0.003	0.006	
10/18/2018 18:35	12.6	82	0.003	0.005	42.43174;-76.49864
10/18/2018 18:36			0.003	0.004	
10/18/2018 18:37			0.003	0.004	
10/18/2018 18:38			0.003	0.004	
10/18/2018 18:39			0.003	0.004	
10/18/2018 18:40	12.6	91.1	0.003	0.004	42.43165;-76.49875
10/18/2018 18:41			0.003	0.004	
10/18/2018 18:42			0.003	0.004	
10/18/2018 18:43			0.003	0.004	
10/18/2018 18:44			0.003	0.004	
10/18/2018 18:45	12.6	95.1	0.003	0.004	42.43166;-76.49876
10/18/2018 18:46			0.003	0.004	
10/18/2018 18:47			0.003	0.004	
10/18/2018 18:48			0.003	0.004	
10/18/2018 18:49			0.003	0.004	
10/18/2018 18:50	12.6	80	0.003	0.004	42.43168;-76.49882
10/18/2018 18:51			0.003	0.004	
10/18/2018 18:52			0.004	0.004	
10/18/2018 18:53			0.004	0.004	
10/18/2018 18:54			0.004	0.004	
10/18/2018 18:55	12.5	84	0.004	0.004	42.43172;-76.49884
10/18/2018 18:56			0.004	0.008	
10/18/2018 18:57			0.004	0.007	
10/18/2018 18:58			0.004	0.005	
10/18/2018 18:59			0.004	0.005	
10/18/2018 19:00	12.5	87	0.004	0.004	42.43179;-76.49885
10/18/2018 19:01			0.004	0.004	
10/18/2018 19:02			0.004	0.007	
10/18/2018 19:03			0.004	0.008	
10/18/2018 19:04			0.004	0.004	
10/18/2018 19:05	12.5	85	0.004	0.004	42.4319;-76.49883
10/18/2018 19:06			0.004	0.004	
10/18/2018 19:07			0.004	0.004	
10/18/2018 19:08			0.004	0.004	
10/18/2018 19:09			0.004	0.004	
10/18/2018 19:10	12.5	85	0.004	0.004	42.43191;-76.49881
10/18/2018 19:11			0.004	0.004	
10/18/2018 19:12			0.004	0.004	
10/18/2018 19:13			0.004	0.004	
10/18/2018 19:14			0.004	0.004	
10/18/2018 19:15	12.5	81	0.004	0.004	42.43207;-76.49886
10/18/2018 19:16			0.004	0.004	
10/18/2018 19:17			0.004	0.005	
10/18/2018 19:18			0.004	0.004	
10/18/2018 19:19			0.004	0.004	
10/22/2018 13:53	13.1	97.2			
10/22/2018 13:55	12.9	122.5	0	0.007	
10/22/2018 13:57	12.8	97.2			
10/22/2018 14:00	12.8	106.3	0	0.008	
10/22/2018 14:00					42.42923;-76.50175
10/22/2018 14:01			0	0.009	
10/22/2018 14:02			0	0.009	
10/22/2018 14:03			0	0.009	
10/22/2018 14:04			0	0.01	
10/22/2018 14:05	12.9	91.1	0	0.008	42.42918;-76.50175
10/22/2018 14:06			0	0.008	
10/22/2018 14:07			0	0.008	
10/22/2018 14:08			0	0.008	
10/22/2018 14:09			0	0.008	
10/22/2018 14:10	12.9	77.9	0	0.008	42.42925;-76.50158
10/22/2018 14:11			0	0.008	
10/22/2018 14:12			0	0.008	
10/22/2018 14:13			0	0.008	
10/22/2018 14:14			0	0.008	
10/22/2018 14:15	12.9	90.1	0	0.008	42.4293;-76.50169
10/22/2018 14:16			0	0.008	
10/22/2018 14:17			0	0.008	
10/22/2018 14:18			0	0.008	
10/22/2018 14:19			0	0.008	
10/22/2018 14:20	12.9	83	0	0.008	42.42933;-76.50166
10/22/2018 14:21			0	0.008	
10/22/2018 14:22			0	0.008	
10/22/2018 14:23			0	0.008	
10/22/2018 14:24			0	0.008	
10/22/2018 14:25	12.9	77.9	0	0.008	42.42929;-76.50171
10/22/2018 14:26			0	0.008	
10/22/2018 14:27			0	0.008	
10/22/2018 14:28			0	0.008	
10/22/2018 14:29			0	0.008	
10/22/2018 14:30	12.9	75.9	0.001	0.008	42.4293;-76.50173

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/22/2018 14:31			0.001	0.008	
10/22/2018 14:32			0.001	0.008	
10/22/2018 14:33			0.001	0.008	
10/22/2018 14:34			0.001	0.008	
10/22/2018 14:35	12.9	77.9	0.001	0.008	42.42937;-76.50176
10/22/2018 14:36			0.001	0.008	
10/22/2018 14:37			0.001	0.008	
10/22/2018 14:38			0.001	0.008	
10/22/2018 14:39			0.001	0.008	
10/22/2018 14:40	12.9	106.3	0.001	0.008	42.42935;-76.5017
10/22/2018 14:41			0.001	0.007	
10/22/2018 14:42			0.001	0.008	
10/22/2018 14:43			0.001	0.008	
10/22/2018 14:44			0.001	0.007	
10/22/2018 14:45	12.9	80	0.001	0.007	42.42933;-76.50172
10/22/2018 14:46			0.001	0.008	
10/22/2018 14:47			0.001	0.007	
10/22/2018 14:48			0.001	0.007	
10/22/2018 14:49			0.001	0.007	
10/22/2018 14:50	12.9	76.9	0.001	0.008	42.42932;-76.5017
10/22/2018 14:51			0.001	0.008	
10/22/2018 14:52			0.001	0.008	
10/22/2018 14:53			0.001	0.007	
10/22/2018 14:54			0.001	0.007	
10/22/2018 14:55	12.9	77.9	0.001	0.007	42.42927;-76.50171
10/22/2018 14:56			0.001	0.008	
10/22/2018 14:57			0.001	0.008	
10/22/2018 14:58			0.001	0.007	
10/22/2018 14:59			0.001	0.007	
10/22/2018 15:00	12.9	76.9	0.001	0.007	42.42928;-76.50159
10/22/2018 15:01			0.001	0.007	
10/22/2018 15:02			0.001	0.007	
10/22/2018 15:03			0.001	0.007	
10/22/2018 15:04			0.001	0.007	
10/22/2018 15:05	12.9	84	0.001	0.007	42.42921;-76.50158
10/22/2018 15:06			0.001	0.007	
10/22/2018 15:07			0.001	0.007	
10/22/2018 15:08			0.001	0.007	
10/22/2018 15:09			0.001	0.007	
10/22/2018 15:10	12.9	77.9	0.001	0.007	42.42928;-76.50169
10/22/2018 15:11			0.001	0.007	
10/22/2018 15:12			0.001	0.007	
10/22/2018 15:13			0.001	0.007	
10/22/2018 15:14			0.001	0.008	
10/22/2018 15:15	12.9	82	0.001	0.007	42.42922;-76.50171
10/22/2018 15:16			0.001	0.007	
10/22/2018 15:17			0.001	0.007	
10/22/2018 15:18			0.001	0.008	
10/22/2018 15:19			0.001	0.007	
10/22/2018 15:20	12.9	83	0.001	0.007	42.4293;-76.50174
10/22/2018 15:21			0.001	0.007	
10/22/2018 15:22			0.001	0.007	
10/22/2018 15:23			0.001	0.007	
10/22/2018 15:24			0.001	0.007	
10/22/2018 15:25	12.9	79	0.001	0.007	42.4293;-76.50169
10/22/2018 15:26			0.001	0.007	
10/22/2018 15:27			0.001	0.007	
10/22/2018 15:28			0.001	0.007	
10/22/2018 15:29			0.001	0.007	
10/22/2018 15:30	12.9	83	0.001	0.007	42.42937;-76.50169
10/22/2018 15:31			0.001	0.007	
10/22/2018 15:32			0.001	0.007	
10/22/2018 15:33			0.001	0.007	
10/22/2018 15:34			0.001	0.007	
10/22/2018 15:35	12.9	75.9	0.002	0.007	42.42942;-76.50168
10/22/2018 15:36			0.002	0.007	
10/22/2018 15:37			0.002	0.007	
10/22/2018 15:38			0.002	0.007	
10/22/2018 15:39			0.002	0.007	
10/22/2018 15:40	12.9	88.1	0.002	0.007	42.42936;-76.50167
10/22/2018 15:41			0.002	0.007	
10/22/2018 15:42			0.002	0.007	
10/22/2018 15:43			0.002	0.007	
10/22/2018 15:44			0.002	0.007	
10/22/2018 15:45	12.9	89.1	0.002	0.007	42.42924;-76.50174
10/22/2018 15:46			0.002	0.007	
10/22/2018 15:47			0.002	0.007	
10/22/2018 15:48			0.002	0.007	
10/22/2018 15:49			0.002	0.007	
10/22/2018 15:50	12.9	77.9	0.002	0.007	42.42924;-76.5017
10/22/2018 15:51			0.002	0.007	
10/22/2018 15:52			0.002	0.007	
10/22/2018 15:53			0.002	0.007	
10/22/2018 15:54			0.002	0.007	
10/22/2018 15:55	12.9	85	0.002	0.007	42.42914;-76.50166
10/22/2018 15:56			0.002	0.007	
10/22/2018 15:57			0.002	0.007	
10/22/2018 15:58			0.002	0.007	
10/22/2018 15:59			0.002	0.008	
10/22/2018 16:00	12.9	86	0.002	0.007	42.42937;-76.50157
10/22/2018 16:01			0.002	0.007	
10/22/2018 16:02			0.002	0.007	
10/22/2018 16:03			0.002	0.007	
10/22/2018 16:04			0.002	0.008	
10/22/2018 16:05	12.9	80	0.002	0.007	42.42939;-76.50159
10/22/2018 16:06			0.002	0.007	
10/22/2018 16:07			0.002	0.007	
10/22/2018 16:08			0.002	0.007	
10/22/2018 16:09			0.002	0.007	
10/22/2018 16:10	12.8	79	0.002	0.007	42.42918;-76.50161
10/22/2018 16:11			0.002	0.007	
10/22/2018 16:12			0.002	0.007	
10/22/2018 16:13			0.002	0.007	
10/22/2018 16:14			0.002	0.007	
10/22/2018 16:15	12.8	82	0.002	0.007	42.42919;-76.50164
10/22/2018 16:16			0.002	0.007	
10/22/2018 16:17			0.002	0.007	
10/22/2018 16:18			0.002	0.007	
10/22/2018 16:19			0.002	0.007	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/22/2018 16:20	12.8	81	0.002	0.007	42.42919;-76.50167
10/22/2018 16:21			0.002	0.007	
10/22/2018 16:22			0.002	0.007	
10/22/2018 16:23			0.002	0.007	
10/22/2018 16:24			0.002	0.007	
10/22/2018 16:25	12.8	95.1	0.002	0.007	42.42911;-76.50171
10/22/2018 16:26			0.002	0.007	
10/22/2018 16:27			0.002	0.007	
10/22/2018 16:28			0.002	0.007	
10/22/2018 16:29			0.002	0.007	
10/22/2018 16:30	12.8	80	0.002	0.007	42.42912;-76.50163
10/22/2018 16:31			0.002	0.007	
10/22/2018 16:32			0.002	0.007	
10/22/2018 16:33			0.002	0.007	
10/22/2018 16:34			0.002	0.007	
10/22/2018 16:35	12.8	84	0.002	0.007	42.42915;-76.5017
10/22/2018 16:36			0.002	0.008	
10/22/2018 16:37			0.002	0.008	
10/22/2018 16:38			0.002	0.008	
10/22/2018 16:39			0.002	0.007	
10/22/2018 16:40	12.8	77.9	0.002	0.007	42.42961;-76.50183
10/22/2018 16:41			0.002	0.007	
10/22/2018 16:42			0.003	0.007	
10/22/2018 16:43			0.003	0.007	
10/22/2018 16:44			0.003	0.007	
10/22/2018 16:45	12.8	85	0.003	0.008	42.42924;-76.50194
10/22/2018 16:46			0.003	0.008	
10/22/2018 16:47			0.003	0.008	
10/22/2018 16:48			0.003	0.008	
10/22/2018 16:49			0.003	0.009	
10/22/2018 16:50	12.8	94.1	0.003	0.008	42.42933;-76.50182
10/22/2018 16:51			0.003	0.009	
10/22/2018 16:52			0.003	0.008	
10/22/2018 16:53			0.003	0.008	
10/22/2018 16:54			0.003	0.008	
10/22/2018 16:55	12.8	79	0.003	0.008	42.42927;-76.50167
10/22/2018 16:56			0.003	0.008	
10/22/2018 16:57			0.003	0.007	
10/22/2018 16:58			0.003	0.008	
10/22/2018 16:59			0.003	0.007	
10/22/2018 17:00	12.8	77.9	0.003	0.007	42.42926;-76.50168
10/22/2018 17:01			0.003	0.008	
10/22/2018 17:02			0.003	0.007	
10/22/2018 17:03			0.003	0.007	
10/22/2018 17:04			0.003	0.007	
10/22/2018 17:05	12.8	80	0.003	0.007	42.42926;-76.50166
10/22/2018 17:06			0.003	0.008	
10/22/2018 17:07			0.003	0.008	
10/22/2018 17:08			0.003	0.008	
10/22/2018 17:09			0.003	0.008	
10/22/2018 17:10	12.8	102.2	0.003	0.007	42.42932;-76.5017
10/22/2018 17:11			0.003	0.008	
10/22/2018 17:12			0.003	0.008	
10/22/2018 17:13			0.003	0.008	
10/22/2018 17:14			0.003	0.007	
10/22/2018 17:15	12.8	77.9	0.003	0.007	42.42926;-76.50181
10/22/2018 17:16			0.003	0.008	
10/22/2018 17:17			0.003	0.008	
10/22/2018 17:18			0.003	0.008	
10/22/2018 17:19			0.003	0.009	
10/22/2018 17:20	12.8	77.9	0.003	0.009	42.42933;-76.50174
10/22/2018 17:21			0.003	0.008	
10/22/2018 17:22			0.003	0.008	
10/22/2018 17:23			0.003	0.009	
10/22/2018 17:24			0.003	0.008	
10/22/2018 17:25	12.8	79	0.003	0.008	42.42935;-76.50174
10/22/2018 17:26			0.003	0.008	
10/22/2018 17:27			0.003	0.008	
10/22/2018 17:28			0.003	0.007	
10/22/2018 17:29			0.003	0.007	
10/22/2018 17:30	12.8	84	0.003	0.007	42.42945;-76.50185
10/22/2018 17:31			0.003	0.007	
10/22/2018 17:32			0.003	0.008	
10/22/2018 17:33			0.003	0.007	
10/22/2018 17:34			0.003	0.007	
10/22/2018 17:35	12.8	97.2	0.003	0.008	42.42939;-76.50176
10/22/2018 17:36			0.003	0.007	
10/22/2018 17:37			0.003	0.007	
10/22/2018 17:38			0.003	0.007	
10/22/2018 17:39			0.003	0.007	
10/22/2018 17:40	12.8	79	0.003	0.008	42.42936;-76.50177
10/22/2018 17:41			0.003	0.008	
10/22/2018 17:42			0.003	0.007	
10/22/2018 17:43			0.003	0.007	
10/22/2018 17:44			0.004	0.007	
10/22/2018 17:45	12.8	79	0.004	0.007	42.42929;-76.50169
10/22/2018 17:46			0.004	0.007	
10/22/2018 17:47			0.004	0.007	
10/22/2018 17:48			0.004	0.007	
10/22/2018 17:49			0.004	0.008	
10/22/2018 17:50	12.8	85	0.004	0.007	42.4293;-76.50171
10/22/2018 17:51			0.004	0.007	
10/22/2018 17:52			0.004	0.008	
10/22/2018 17:53			0.004	0.007	
10/22/2018 17:54			0.004	0.007	
10/22/2018 17:55	12.8	79	0.004	0.007	42.42929;-76.50169
10/22/2018 17:56			0.004	0.007	
10/22/2018 17:57			0.004	0.007	
10/22/2018 17:58			0.004	0.007	
10/22/2018 17:59			0.004	0.007	
10/22/2018 18:00	12.8	77.9	0.004	0.007	42.42931;-76.50168
10/22/2018 18:01			0.004	0.007	
10/22/2018 18:02			0.004	0.007	
10/22/2018 18:03			0.004	0.007	
10/22/2018 18:04			0.004	0.007	
10/22/2018 18:05	12.8	76.9	0.004	0.007	42.42928;-76.50175
10/22/2018 18:06			0.004	0.007	
10/22/2018 18:07			0.004	0.007	
10/22/2018 18:08			0.004	0.007	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/22/2018 18:09			0.004	0.008	
10/22/2018 18:10	12.8	77.9	0.004	0.007	42.42929;-76.50157
10/22/2018 18:11			0.004	0.007	
10/22/2018 18:12			0.004	0.008	
10/22/2018 18:13			0.004	0.007	
10/22/2018 18:14			0.004	0.007	
10/22/2018 18:15	12.8	77.9	0.004	0.007	42.42931;-76.50172
10/22/2018 18:16			0.004	0.007	
10/22/2018 18:17			0.004	0.007	
10/22/2018 18:18			0.004	0.007	
10/22/2018 18:19			0.004	0.007	
10/22/2018 18:20	12.8	77.9	0.004	0.007	
10/22/2018 18:20					42.42939;-76.50174
10/22/2018 18:21			0.004	0.006	
10/22/2018 18:22			0.004	0.006	
10/22/2018 18:23			0.004	0.007	
10/22/2018 18:24			0.004	0.007	
10/22/2018 18:25	12.8	79	0.004	0.007	42.42931;-76.5017
10/22/2018 18:26			0.004	0.007	
10/22/2018 18:27			0.004	0.007	
10/22/2018 18:28			0.004	0.007	
10/22/2018 18:29			0.004	0.007	
10/22/2018 18:30	12.7	79	0.004	0.007	42.42928;-76.50177
10/22/2018 18:31			0.004	0.007	
10/22/2018 18:32			0.004	0.007	
10/22/2018 18:33			0.004	0.007	
10/22/2018 18:34			0.004	0.007	
10/22/2018 18:35	12.7	93.1	0.004	0.006	42.42941;-76.50175
10/22/2018 18:36			0.004	0.007	
10/22/2018 18:37			0.004	0.006	
10/22/2018 18:38			0.004	0.006	
10/22/2018 18:39			0.004	0.006	
10/22/2018 18:40	12.8	87	0.004	0.006	42.42937;-76.50169
10/22/2018 18:41			0.004	0.007	
10/22/2018 18:42			0.004	0.007	
10/22/2018 18:43			0.004	0.007	
10/22/2018 18:44			0.004	0.007	
10/22/2018 18:45	12.7	79	0.004	0.007	42.42934;-76.50172
10/22/2018 18:46			0.004	0.006	
10/22/2018 18:47			0.004	0.007	
10/22/2018 18:48			0.004	0.007	
10/22/2018 18:49			0.004	0.007	
10/22/2018 18:50	12.7	80	0.004	0.006	42.42938;-76.50169
10/22/2018 18:51			0.004	0.006	
10/22/2018 18:52			0.004	0.006	
10/22/2018 18:53			0.004	0.006	
10/22/2018 18:54			0.005	0.008	
10/22/2018 18:55	12.7	77.9	0.005	0.008	42.4293;-76.50169
10/22/2018 18:56			0.005	0.008	
10/22/2018 18:57			0.005	0.009	
10/22/2018 18:58			0.005	0.009	
10/22/2018 18:59			0.005	0.009	
10/22/2018 19:00	12.7	94.1	0.005	0.008	
10/22/2018 19:00					42.42928;-76.5016
10/22/2018 19:01			0.005	0.007	
10/22/2018 19:02			0.005	0.007	
10/22/2018 19:03			0.005	0.007	
10/22/2018 19:04			0.005	0.007	
10/22/2018 19:05	12.7	82	0.005	0.007	
10/22/2018 19:05					42.42928;-76.50165
10/22/2018 19:06			0.005	0.007	
10/22/2018 19:07			0.005	0.007	
10/22/2018 19:08			0.005	0.007	
10/22/2018 19:09			0.005	0.007	
10/22/2018 19:10	12.7	91.1	0.005	0.007	
10/22/2018 19:10					42.42933;-76.5016
10/22/2018 19:11			0.005	0.007	
10/22/2018 19:12			0.005	0.007	
10/22/2018 19:13			0.005	0.006	
10/22/2018 19:14			0.005	0.006	
10/22/2018 19:15	12.7	86	0.005	0.007	
10/22/2018 19:15					42.42936;-76.50172
10/22/2018 19:16			0.005	0.007	
10/22/2018 19:17			0.005	0.007	
10/22/2018 19:18			0.005	0.007	
10/22/2018 19:19			0.005	0.007	
10/22/2018 19:20	12.7	90.1	0.005	0.007	
10/22/2018 19:20					42.4293;-76.50164
10/22/2018 19:21			0.005	0.007	
10/22/2018 19:22			0.005	0.007	
10/22/2018 19:23			0.005	0.007	
10/22/2018 19:24			0.005	0.007	
10/22/2018 19:25	12.7	84	0.005	0.007	
10/22/2018 19:25					42.42931;-76.50167
10/22/2018 19:26			0.005	0.007	
10/22/2018 19:27			0.005	0.007	
10/22/2018 19:28			0.005	0.006	
10/22/2018 19:29			0.005	0.007	
10/22/2018 19:30	12.7	90.1	0.005	0.007	
10/22/2018 19:30					42.42931;-76.50166
10/22/2018 19:31			0.005	0.007	
10/22/2018 19:32			0.005	0.007	
10/22/2018 19:33			0.005	0.007	
10/22/2018 19:34			0.005	0.008	
10/22/2018 19:35	12.7	90.1	0.005	0.008	
10/22/2018 19:35					42.42933;-76.50169
10/22/2018 19:36			0.005	0.008	
10/22/2018 19:37			0.005	0.008	
10/22/2018 19:38			0.005	0.008	
10/22/2018 19:39			0.005	0.008	
10/22/2018 19:40	12.7	94.1	0.005	0.007	
10/22/2018 19:40					42.42931;-76.50169
10/22/2018 19:41			0.005	0.007	
10/22/2018 19:42			0.005	0.007	
10/22/2018 19:43			0.005	0.007	
10/22/2018 19:44			0.005	0.007	
10/22/2018 19:45	12.7	87	0.005	0.007	
10/22/2018 19:45					42.42928;-76.50166
10/22/2018 19:46			0.005	0.007	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/22/2018 19:47			0.005	0.007	
10/22/2018 19:48			0.005	0.007	
10/22/2018 19:49			0.005	0.007	
10/22/2018 19:50	12.7	94.1	0.005	0.007	
10/22/2018 19:50					42.4293;-76.50172
10/22/2018 19:51			0.005	0.007	
10/22/2018 19:52			0.005	0.007	
10/22/2018 19:53			0.005	0.007	
10/22/2018 19:54			0.005	0.007	
10/22/2018 19:55	12.7	89.1	0.005	0.007	
10/22/2018 19:55					42.4293;-76.5017
10/22/2018 19:56			0.005	0.006	
10/22/2018 19:57			0.005	0.006	
10/22/2018 19:58			0.005	0.006	
10/22/2018 19:59			0.005	0.006	
10/22/2018 20:00	12.7	84	0.005	0.006	
10/22/2018 20:00					42.4293;-76.50169
10/22/2018 20:01			0.005	0.006	
10/22/2018 20:02			0.006	0.006	
10/22/2018 20:03			0.006	0.006	
10/22/2018 20:04			0.006	0.006	
10/22/2018 20:05	12.7	79	0.006	0.006	
10/22/2018 20:05					42.42933;-76.50167
10/22/2018 20:06			0.006	0.006	
10/22/2018 20:07			0.006	0.006	
10/22/2018 20:08			0.006	0.006	
10/22/2018 20:09			0.006	0.006	
10/22/2018 20:10	12.7	77.9	0.006	0.007	
10/22/2018 20:10					42.42927;-76.50166
10/22/2018 20:11			0.006	0.006	
10/22/2018 20:12			0.006	0.006	
10/22/2018 20:13			0.006	0.007	
10/22/2018 20:14			0.006	0.006	
10/22/2018 20:15	12.7	84	0.006	0.007	
10/22/2018 20:15					42.4293;-76.50175
10/22/2018 20:16			0.006	0.007	
10/22/2018 20:17			0.006	0.006	
10/22/2018 20:18			0.006	0.006	
10/22/2018 20:19			0.006	0.006	
10/22/2018 20:20	12.7	85	0.006	0.006	
10/22/2018 20:20					42.4293;-76.50171
10/22/2018 20:21			0.006	0.007	
10/22/2018 20:22			0.006	0.006	
10/22/2018 20:23			0.006	0.006	
10/22/2018 20:24			0.006	0.006	
10/22/2018 20:25	12.7	80	0.006	0.006	
10/22/2018 20:25					42.42931;-76.50169
10/22/2018 20:26			0.006	0.006	
10/22/2018 20:27			0.006	0.006	
10/22/2018 20:28			0.006	0.006	
10/22/2018 20:29			0.006	0.006	
10/22/2018 20:30	12.6	80	0.006	0.006	
10/22/2018 20:30					42.42928;-76.50166
10/22/2018 20:31			0.006	0.006	
10/22/2018 20:32			0.006	0.006	
10/22/2018 20:33			0.006	0.006	
10/22/2018 20:34			0.006	0.006	
10/22/2018 20:35	12.6	82	0.006	0.006	
10/22/2018 20:35					42.42932;-76.50171
10/22/2018 20:36			0.006	0.006	
10/22/2018 20:37			0.006	0.007	
10/22/2018 20:38			0.006	0.006	
10/22/2018 20:39			0.006	0.006	
10/22/2018 20:40	12.6	91.1	0.006	0.006	
10/22/2018 20:40					42.4293;-76.50172
10/22/2018 20:41			0.006	0.007	
10/22/2018 20:42			0.006	0.006	
10/22/2018 20:43			0.006	0.006	
10/22/2018 20:44			0.006	0.006	
10/22/2018 20:45	12.6	91.1	0.006	0.006	
10/22/2018 20:45					42.42926;-76.50172
10/22/2018 20:46			0.006	0.006	
10/22/2018 20:47			0.006	0.006	
10/22/2018 20:48			0.006	0.006	
10/22/2018 20:49			0.006	0.006	
10/22/2018 20:50	12.6	80	0.006	0.006	
10/22/2018 20:50					42.42918;-76.50169
10/22/2018 20:51			0.006	0.006	
10/22/2018 20:52			0.006	0.006	
10/22/2018 20:53			0.006	0.006	
10/22/2018 20:54			0.006	0.006	
10/22/2018 20:55	12.6	92.1	0.006	0.007	
10/22/2018 20:55					42.42929;-76.50169
10/22/2018 20:56			0.006	0.006	
10/22/2018 20:57			0.006	0.006	
10/22/2018 20:58			0.006	0.006	
10/22/2018 20:59			0.006	0.006	
10/22/2018 21:00	12.6	90.1	0.006	0.007	
10/22/2018 21:00					42.42926;-76.50169
10/22/2018 21:01			0.006	0.007	
10/22/2018 21:02			0.006	0.007	
10/22/2018 21:03			0.006	0.007	
10/22/2018 21:04			0.006	0.007	
10/22/2018 21:05	12.6	84	0.006	0.006	
10/22/2018 21:05					42.42931;-76.5018
10/22/2018 21:06			0.006	0.007	
10/22/2018 21:07			0.006	0.007	
10/22/2018 21:08			0.006	0.007	
10/22/2018 21:09			0.006	0.007	
10/22/2018 21:10	12.6	83	0.006	0.007	
10/22/2018 21:10					42.4292;-76.5016
10/22/2018 21:11			0.006	0.007	
10/22/2018 21:12			0.006	0.007	
10/22/2018 21:13			0.006	0.006	
10/22/2018 21:14			0.006	0.007	
10/22/2018 21:15	12.6	91.1	0.006	0.007	
10/22/2018 21:15					42.42914;-76.50173
10/22/2018 21:16			0.006	0.007	
10/22/2018 21:17			0.007	0.007	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/22/2018 21:18			0.007	0.006	
10/22/2018 21:19			0.007	0.007	
10/22/2018 21:20	12.6	85	0.007	0.007	42.42916;-76.50172
10/22/2018 21:21			0.007	0.006	
10/22/2018 21:22			0.007	0.006	
10/22/2018 21:23			0.007	0.007	
10/22/2018 21:24			0.007	0.006	
10/22/2018 21:25	12.6	86	0.007	0.007	42.42919;-76.50174
10/22/2018 21:26			0.007	0.006	
10/22/2018 21:27			0.007	0.006	
10/22/2018 21:28			0.007	0.006	
10/22/2018 21:29			0.007	0.006	
10/22/2018 21:30	12.6	80	0.007	0.006	42.42922;-76.50174
10/22/2018 21:31			0.007	0.006	
10/22/2018 21:32			0.007	0.007	
10/22/2018 21:33			0.007	0.006	
10/22/2018 21:34			0.007	0.006	
10/22/2018 21:35	12.6	91.1	0.007	0.006	42.42925;-76.50169
10/22/2018 21:36			0.007	0.007	
10/22/2018 21:37			0.007	0.006	
10/22/2018 21:38			0.007	0.006	
10/22/2018 21:39			0.007	0.006	
10/22/2018 21:40	12.6	80	0.007	0.007	42.42924;-76.50168
10/22/2018 21:41			0.007	0.006	
10/22/2018 21:42			0.007	0.006	
10/22/2018 21:43			0.007	0.006	
10/22/2018 21:44			0.007	0.006	
10/22/2018 21:45	12.6	96.2	0.007	0.006	42.42922;-76.50172
10/22/2018 21:46			0.007	0.006	
10/22/2018 21:47			0.007	0.006	
10/22/2018 21:48			0.007	0.006	
10/22/2018 21:49			0.007	0.006	
10/22/2018 21:50	12.5	79	0.007	0.006	42.42924;-76.50173
10/22/2018 21:51			0.007	0.006	
10/22/2018 21:52			0.007	0.006	
10/22/2018 21:53			0.007	0.007	
10/22/2018 21:54			0.007	0.006	
10/23/2018 12:04	13.1	97.2			
10/23/2018 12:04					42.431582;-76.5038019
10/23/2018 12:05	13.1	90.1			
10/23/2018 12:07			0	0.027	
10/23/2018 12:08			0	0.012	
10/23/2018 12:09			0	0.011	
10/23/2018 12:10	12.9	85	0	0.011	
10/23/2018 12:10					42.43163;-76.49895
10/23/2018 12:11			0	0.011	
10/23/2018 12:12			0	0.011	
10/23/2018 12:13			0	0.012	
10/23/2018 12:14			0	0.012	
10/23/2018 12:15	12.9	101.2	0	0.013	
10/23/2018 12:15					42.4316;-76.49895
10/23/2018 12:16			0	0.013	
10/23/2018 12:17			0	0.015	
10/23/2018 12:18			0	0.013	
10/23/2018 12:19			0	0.012	
10/23/2018 12:20	12.9	82	0	0.011	
10/23/2018 12:20					42.43164;-76.49894
10/23/2018 12:21			0	0.011	
10/23/2018 12:22			0	0.011	
10/23/2018 12:23			0	0.011	
10/23/2018 12:24			0	0.014	
10/23/2018 12:25	12.9	76.9	0	0.016	
10/23/2018 12:25					42.43167;-76.49896
10/23/2018 12:26			0.001	0.013	
10/23/2018 12:27			0.001	0.013	
10/23/2018 12:28			0.001	0.011	
10/23/2018 12:29			0.001	0.011	
10/23/2018 12:30	12.9	80	0.001	0.012	
10/23/2018 12:30					42.43167;-76.49901
10/23/2018 12:31			0.001	0.011	
10/23/2018 12:32			0.001	0.011	
10/23/2018 12:33			0.001	0.01	
10/23/2018 12:34			0.001	0.01	
10/23/2018 12:35	12.9	83	0.001	0.011	
10/23/2018 12:35					42.43169;-76.49902
10/23/2018 12:36			0.001	0.01	
10/23/2018 12:37			0.001	0.011	
10/23/2018 12:38			0.001	0.011	
10/23/2018 12:39			0.001	0.012	
10/23/2018 12:40	12.9	76.9	0.001	0.011	
10/23/2018 12:40					42.43167;-76.49901
10/23/2018 12:41			0.001	0.011	
10/23/2018 12:42			0.001	0.011	
10/23/2018 12:43			0.001	0.011	
10/23/2018 12:44			0.001	0.012	
10/23/2018 12:45	12.9	76.9	0.001	0.011	
10/23/2018 12:45					42.43162;-76.49902
10/23/2018 12:46			0.001	0.011	
10/23/2018 12:47			0.001	0.011	
10/23/2018 12:48			0.001	0.01	
10/23/2018 12:49			0.001	0.011	
10/23/2018 12:50	12.9	77.9	0.001	0.01	
10/23/2018 12:50					42.43158;-76.49899
10/23/2018 12:51			0.001	0.01	
10/23/2018 12:52			0.001	0.01	
10/23/2018 12:53			0.001	0.01	
10/23/2018 12:54			0.001	0.01	
10/23/2018 12:55	12.9	76.9	0.001	0.01	
10/23/2018 12:55					42.43161;-76.499
10/23/2018 12:56			0.001	0.01	
10/23/2018 12:57			0.001	0.01	
10/23/2018 12:58			0.001	0.01	
10/23/2018 12:59			0.001	0.011	
10/23/2018 13:00	12.9	82	0.001	0.011	
10/23/2018 13:00					42.43155;-76.49901
10/23/2018 13:01			0.001	0.012	
10/23/2018 13:02			0.001	0.014	
10/23/2018 13:03			0.001	0.014	
10/23/2018 13:04			0.001	0.01	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/23/2018 13:05	12.9	83	0.001	0.012	
10/23/2018 13:05					42.43145;-76.49908
10/23/2018 13:06			0.001	0.01	
10/23/2018 13:07			0.001	0.01	
10/23/2018 13:08			0.001	0.01	
10/23/2018 13:09			0.001	0.01	
10/23/2018 13:10	12.9	76.9	0.002	0.01	
10/23/2018 13:10					42.43151;-76.49905
10/23/2018 13:11			0.002	0.011	
10/23/2018 13:12			0.002	0.011	
10/23/2018 13:13			0.002	0.011	
10/23/2018 13:14			0.002	0.011	
10/23/2018 13:15	12.9	77.9	0.002	0.01	
10/23/2018 13:15					42.43147;-76.49894
10/23/2018 13:16			0.002	0.01	
10/23/2018 13:17			0.002	0.012	
10/23/2018 13:18			0.002	0.012	
10/23/2018 13:19			0.002	0.01	
10/23/2018 13:20	12.9	84	0.002	0.01	
10/23/2018 13:20					42.43114;-76.49904
10/23/2018 13:21			0.002	0.01	
10/23/2018 13:22			0.002	0.01	
10/23/2018 13:23			0.002	0.011	
10/23/2018 13:24			0.002	0.012	
10/23/2018 13:25	12.9	87	0.002	0.011	
10/23/2018 13:25					42.43127;-76.49904
10/23/2018 13:26			0.002	0.011	
10/23/2018 13:27			0.002	0.01	
10/23/2018 13:28			0.002	0.01	
10/23/2018 13:29			0.002	0.011	
10/23/2018 13:30	12.9	89.1	0.002	0.011	
10/23/2018 13:30					42.43131;-76.49907
10/23/2018 13:31			0.002	0.011	
10/23/2018 13:32			0.002	0.01	
10/23/2018 13:33			0.002	0.01	
10/23/2018 13:34			0.002	0.01	
10/23/2018 13:35	12.9	81	0.002	0.01	
10/23/2018 13:35					42.43177;-76.49899
10/23/2018 13:36			0.002	0.01	
10/23/2018 13:37			0.002	0.009	
10/23/2018 13:38			0.002	0.009	
10/23/2018 13:39			0.002	0.008	
10/23/2018 13:40	12.9	80	0.002	0.008	
10/23/2018 13:40					42.43173;-76.49907
10/23/2018 13:41			0.002	0.009	
10/23/2018 13:42			0.002	0.009	
10/23/2018 13:43			0.002	0.008	
10/23/2018 13:44			0.002	0.009	
10/23/2018 13:45	12.9	76.9	0.002	0.009	
10/23/2018 13:45					42.43167;-76.49904
10/23/2018 13:46			0.002	0.009	
10/23/2018 13:47			0.002	0.009	
10/23/2018 13:48			0.002	0.009	
10/23/2018 13:49			0.002	0.01	
10/23/2018 13:50	12.9	76.9	0.002	0.009	
10/23/2018 13:50					42.43172;-76.49905
10/23/2018 13:51			0.002	0.009	
10/23/2018 13:52			0.002	0.009	
10/23/2018 13:53			0.002	0.009	
10/23/2018 13:54			0.002	0.009	
10/23/2018 13:55	12.9	77.9	0.002	0.009	
10/23/2018 13:55					42.43169;-76.49904
10/23/2018 13:56			0.002	0.008	
10/23/2018 13:57			0.002	0.008	
10/23/2018 13:58			0.002	0.008	
10/23/2018 13:59			0.003	0.008	
10/23/2018 14:00	12.9	94.1	0.003	0.008	
10/23/2018 14:00					42.43166;-76.49901
10/23/2018 14:01			0.003	0.008	
10/23/2018 14:02			0.003	0.008	
10/23/2018 14:03			0.003	0.008	
10/23/2018 14:04			0.003	0.009	
10/23/2018 14:05	12.9	82	0.003	0.008	
10/23/2018 14:05					42.43168;-76.49901
10/23/2018 14:06			0.003	0.01	
10/23/2018 14:07			0.003	0.009	
10/23/2018 14:08			0.003	0.01	
10/23/2018 14:09			0.003	0.011	
10/23/2018 14:10	12.9	87	0.003	0.009	
10/23/2018 14:10					42.43163;-76.49899
10/23/2018 14:11			0.003	0.009	
10/23/2018 14:12			0.003	0.008	
10/23/2018 14:13			0.003	0.008	
10/23/2018 14:14			0.003	0.008	
10/23/2018 14:15	12.9	82	0.003	0.008	
10/23/2018 14:15					42.43165;-76.49899
10/23/2018 14:16			0.003	0.008	
10/23/2018 14:17			0.003	0.008	
10/23/2018 14:18			0.003	0.008	
10/23/2018 14:19			0.003	0.009	
10/23/2018 14:20	12.9	77.9	0.003	0.008	
10/23/2018 14:20					42.43165;-76.49897
10/23/2018 14:21			0.003	0.008	
10/23/2018 14:22			0.003	0.008	
10/23/2018 14:23			0.003	0.008	
10/23/2018 14:24			0.003	0.008	
10/23/2018 14:25	12.9	80	0.003	0.008	
10/23/2018 14:25					42.43166;-76.499
10/23/2018 14:26			0.003	0.008	
10/23/2018 14:27			0.003	0.009	
10/23/2018 14:28			0.003	0.008	
10/23/2018 14:29			0.003	0.009	
10/23/2018 14:30	12.9	82	0.003	0.009	
10/23/2018 14:30					42.43169;-76.49899
10/23/2018 14:31			0.003	0.009	
10/23/2018 14:32			0.003	0.009	
10/23/2018 14:33			0.003	0.009	
10/23/2018 14:34			0.003	0.009	
10/23/2018 14:35	12.9	89.1	0.003	0.009	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/23/2018 14:35					42.43167;-76.49897
10/23/2018 14:36			0.003	0.009	
10/23/2018 14:37			0.003	0.009	
10/23/2018 14:38			0.003	0.009	
10/23/2018 14:39			0.003	0.009	
10/23/2018 14:40	12.9	77.9	0.003	0.009	
10/23/2018 14:40					42.43168;-76.49897
10/23/2018 14:41			0.003	0.009	
10/23/2018 14:42			0.003	0.008	
10/23/2018 14:43			0.003	0.009	
10/23/2018 14:44			0.003	0.008	
10/23/2018 14:45	12.8	85	0.003	0.008	
10/23/2018 14:45					42.43166;-76.49885
10/23/2018 14:46			0.003	0.009	
10/23/2018 14:47			0.003	0.008	
10/23/2018 14:48			0.003	0.008	
10/23/2018 14:49			0.003	0.008	
10/23/2018 14:50	12.8	81	0.003	0.008	
10/23/2018 14:50					42.43169;-76.49895
10/23/2018 14:51			0.003	0.008	
10/23/2018 14:52			0.003	0.008	
10/23/2018 14:53			0.003	0.008	
10/23/2018 14:54			0.003	0.008	
10/23/2018 14:55	12.8	96.2	0.003	0.008	
10/23/2018 14:55					42.43167;-76.49896
10/23/2018 14:56			0.004	0.008	
10/23/2018 14:57			0.004	0.008	
10/23/2018 14:58			0.004	0.008	
10/23/2018 14:59			0.004	0.009	
10/23/2018 15:00	12.8	79	0.004	0.008	
10/23/2018 15:00					42.43169;-76.49899
10/23/2018 15:01			0.004	0.008	
10/23/2018 15:02			0.004	0.008	
10/23/2018 15:03			0.004	0.008	
10/23/2018 15:04			0.004	0.008	
10/23/2018 15:05	12.8	77.9	0.004	0.008	
10/23/2018 15:05					42.43163;-76.49892
10/23/2018 15:06			0.004	0.008	
10/23/2018 15:07			0.004	0.009	
10/23/2018 15:08			0.004	0.008	
10/23/2018 15:09			0.004	0.009	
10/23/2018 15:10	12.8	79	0.004	0.009	
10/23/2018 15:10					42.43164;-76.49891
10/23/2018 15:11			0.004	0.009	
10/23/2018 15:12			0.004	0.008	
10/23/2018 15:13			0.004	0.011	
10/23/2018 15:14			0.004	0.009	
10/23/2018 15:15	12.8	79	0.004	0.01	
10/23/2018 15:15					42.43181;-76.49905
10/23/2018 15:16			0.004	0.01	
10/23/2018 15:17			0.004	0.009	
10/23/2018 15:18			0.004	0.009	
10/23/2018 15:19			0.004	0.009	
10/23/2018 15:20	12.8	77.9	0.004	0.01	
10/23/2018 15:20					42.4318;-76.49902
10/23/2018 15:21			0.004	0.01	
10/23/2018 15:22			0.004	0.01	
10/23/2018 15:23			0.004	0.01	
10/23/2018 15:24			0.004	0.01	
10/23/2018 15:25	12.8	79	0.004	0.01	
10/23/2018 15:25					42.43169;-76.49895
10/23/2018 15:26			0.004	0.01	
10/23/2018 15:27			0.004	0.01	
10/23/2018 15:28			0.004	0.01	
10/23/2018 15:29			0.004	0.009	
10/23/2018 15:30	12.8	84	0.004	0.01	
10/23/2018 15:30					42.43171;-76.49898
10/23/2018 15:31			0.004	0.011	
10/23/2018 15:32			0.004	0.011	
10/23/2018 15:33			0.004	0.01	
10/23/2018 15:34			0.004	0.01	
10/23/2018 15:35	12.8	81	0.004	0.01	
10/23/2018 15:35					42.43169;-76.49895
10/23/2018 15:36			0.004	0.011	
10/23/2018 15:37			0.004	0.011	
10/23/2018 15:38			0.004	0.01	
10/23/2018 15:39			0.004	0.01	
10/23/2018 15:40	12.8	82	0.004	0.01	
10/23/2018 15:40					42.43167;-76.49899
10/23/2018 15:41			0.004	0.01	
10/23/2018 15:42			0.004	0.01	
10/23/2018 15:43			0.004	0.01	
10/23/2018 15:44			0.004	0.01	
10/23/2018 15:45	12.8	77.9	0.004	0.012	
10/23/2018 15:45					42.43168;-76.49894
10/23/2018 15:46			0.005	0.011	
10/23/2018 15:47			0.005	0.012	
10/23/2018 15:48			0.005	0.011	
10/23/2018 15:49			0.005	0.011	
10/23/2018 15:50	12.8	80	0.005	0.011	
10/23/2018 15:50					42.43165;-76.49893
10/23/2018 15:51			0.005	0.011	
10/23/2018 15:52			0.005	0.011	
10/23/2018 15:53			0.005	0.011	
10/23/2018 15:54			0.005	0.01	
10/23/2018 15:55	12.8	80	0.005	0.011	
10/23/2018 15:55					42.43151;-76.49895
10/23/2018 15:56			0.005	0.011	
10/23/2018 15:57			0.005	0.011	
10/23/2018 15:58			0.005	0.011	
10/23/2018 15:59			0.005	0.011	
10/23/2018 16:00	12.8	91.1	0.005	0.012	
10/23/2018 16:00					42.4317;-76.49892
10/23/2018 16:01			0.005	0.012	
10/23/2018 16:02			0.005	0.011	
10/23/2018 16:03			0.005	0.011	
10/23/2018 16:04			0.005	0.011	
10/23/2018 16:05	12.8	85	0.005	0.011	
10/23/2018 16:05					42.43145;-76.49902

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/23/2018 16:06			0.005	0.011	
10/23/2018 16:07			0.005	0.01	
10/23/2018 16:08			0.005	0.01	
10/23/2018 16:09			0.005	0.01	
10/23/2018 16:10	12.8	79	0.005	0.01	
10/23/2018 16:10					42.43163;-76.49897
10/23/2018 16:11			0.005	0.01	
10/23/2018 16:12			0.005	0.01	
10/23/2018 16:13			0.005	0.009	
10/23/2018 16:14			0.005	0.01	
10/23/2018 16:15	12.8	79	0.005	0.009	
10/23/2018 16:15					42.43152;-76.49888
10/23/2018 16:16			0.005	0.01	
10/23/2018 16:17			0.005	0.009	
10/23/2018 16:18			0.005	0.009	
10/23/2018 16:19			0.005	0.01	
10/23/2018 16:20	12.8	84	0.005	0.009	
10/23/2018 16:20					42.43113;-76.49868
10/23/2018 16:21			0.005	0.012	
10/23/2018 16:22			0.005	0.01	
10/23/2018 16:23			0.005	0.01	
10/23/2018 16:24			0.005	0.009	
10/23/2018 16:25	12.8	84	0.005	0.009	
10/23/2018 16:25					42.43202;-76.49907
10/23/2018 16:26			0.005	0.009	
10/23/2018 16:27			0.005	0.009	
10/23/2018 16:28			0.005	0.009	
10/23/2018 16:29			0.005	0.009	
10/23/2018 16:30	12.8	76.9	0.005	0.009	
10/23/2018 16:30					42.4317;-76.49895
10/23/2018 16:31			0.005	0.009	
10/23/2018 16:32			0.005	0.009	
10/23/2018 16:33			0.006	0.009	
10/23/2018 16:34			0.006	0.009	
10/23/2018 16:35	12.8	81	0.006	0.009	
10/23/2018 16:35					42.43188;-76.49908
10/23/2018 16:36			0.006	0.009	
10/23/2018 16:37			0.006	0.009	
10/23/2018 16:38			0.006	0.009	
10/23/2018 16:39			0.006	0.009	
10/23/2018 16:40	12.8	80	0.006	0.009	
10/23/2018 16:40					42.43163;-76.49899
10/23/2018 16:41			0.006	0.009	
10/23/2018 16:42			0.006	0.008	
10/23/2018 16:43			0.006	0.008	
10/23/2018 16:44			0.006	0.008	
10/23/2018 16:45	12.8	80	0.006	0.008	
10/23/2018 16:45					42.43156;-76.49893
10/23/2018 16:46			0.006	0.008	
10/23/2018 16:47			0.006	0.009	
10/23/2018 16:48			0.006	0.009	
10/23/2018 16:49			0.006	0.008	
10/23/2018 16:50	12.7	96.2	0.006	0.009	
10/23/2018 16:50					42.43162;-76.49892
10/23/2018 16:51			0.006	0.009	
10/23/2018 16:52			0.006	0.008	
10/23/2018 16:53			0.006	0.009	
10/23/2018 16:54			0.006	0.009	
10/23/2018 16:55	12.7	84	0.006	0.008	
10/23/2018 16:55					42.43155;-76.49893
10/23/2018 16:56			0.006	0.008	
10/23/2018 16:57			0.006	0.009	
10/23/2018 16:58			0.006	0.009	
10/23/2018 16:59			0.006	0.009	
10/23/2018 17:00	12.7	89.1	0.006	0.009	
10/23/2018 17:00					42.43154;-76.49891
10/23/2018 17:01			0.006	0.009	
10/23/2018 17:02			0.006	0.009	
10/23/2018 17:03			0.006	0.016	
10/23/2018 17:04			0.006	0.012	
10/23/2018 17:05	12.7	83	0.006	0.01	
10/23/2018 17:05					42.43157;-76.49893
10/23/2018 17:06			0.006	0.008	
10/23/2018 17:07			0.006	0.008	
10/23/2018 17:08			0.006	0.008	
10/23/2018 17:09			0.006	0.008	
10/23/2018 17:10	12.7	80	0.006	0.008	
10/23/2018 17:10					42.43159;-76.49892
10/23/2018 17:11			0.006	0.008	
10/23/2018 17:12			0.006	0.008	
10/23/2018 17:13			0.006	0.008	
10/23/2018 17:14			0.006	0.008	
10/23/2018 17:15	12.7	77.9	0.006	0.008	
10/23/2018 17:15					42.4316;-76.49893
10/23/2018 17:16			0.006	0.01	
10/23/2018 17:17			0.006	0.01	
10/23/2018 17:18			0.006	0.01	
10/23/2018 17:19			0.006	0.012	
10/23/2018 17:20	12.7	86	0.006	0.009	
10/23/2018 17:20					42.43161;-76.49895
10/23/2018 17:21			0.006	0.01	
10/23/2018 17:22			0.006	0.009	
10/23/2018 17:23			0.006	0.008	
10/23/2018 17:24			0.006	0.008	
10/23/2018 17:25	12.7	82	0.006	0.008	
10/23/2018 17:25					42.43174;-76.49905
10/23/2018 17:26			0.007	0.009	
10/23/2018 17:27			0.007	0.008	
10/23/2018 17:28			0.007	0.008	
10/23/2018 17:29			0.007	0.008	
10/23/2018 17:30	12.7	85	0.007	0.008	
10/23/2018 17:30					42.43171;-76.49901
10/23/2018 17:31			0.007	0.008	
10/23/2018 17:32			0.007	0.008	
10/23/2018 17:33			0.007	0.008	
10/23/2018 17:34			0.007	0.009	
10/23/2018 17:35	12.7	82	0.007	0.009	
10/23/2018 17:35					42.43168;-76.49897
10/23/2018 17:36			0.007	0.009	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/23/2018 17:37			0.007	0.009	
10/23/2018 17:38			0.007	0.008	
10/23/2018 17:39			0.007	0.008	
10/23/2018 17:40	12.7	81	0.007	0.008	
10/23/2018 17:40					42.43157;-76.49892
10/23/2018 17:41			0.007	0.008	
10/23/2018 17:42			0.007	0.008	
10/23/2018 17:43			0.007	0.008	
10/23/2018 17:44			0.007	0.008	
10/23/2018 17:45	12.7	91.1	0.007	0.008	
10/23/2018 17:45					42.43174;-76.49902
10/23/2018 17:46			0.007	0.009	
10/23/2018 17:47			0.007	0.009	
10/23/2018 17:48			0.007	0.012	
10/23/2018 17:49			0.007	0.009	
10/23/2018 17:50	12.7	80	0.007	0.009	
10/23/2018 17:50					42.4317;-76.49899
10/23/2018 17:51			0.007	0.008	
10/23/2018 17:52			0.007	0.008	
10/23/2018 17:53			0.007	0.007	
10/23/2018 17:54			0.007	0.007	
10/23/2018 17:55	12.7	82	0.007	0.007	
10/23/2018 17:55					42.43167;-76.49896
10/23/2018 17:56			0.007	0.007	
10/23/2018 17:57			0.007	0.007	
10/23/2018 17:58			0.007	0.007	
10/23/2018 17:59			0.007	0.007	
10/23/2018 18:00	12.7	77.9	0.007	0.008	
10/23/2018 18:00					42.43167;-76.49895
10/23/2018 18:01			0.007	0.007	
10/23/2018 18:02			0.007	0.008	
10/23/2018 18:03			0.007	0.007	
10/23/2018 18:04			0.007	0.007	
10/23/2018 18:05	12.7	89.1	0.007	0.007	
10/23/2018 18:05					42.43166;-76.49898
10/23/2018 18:06			0.007	0.007	
10/23/2018 18:07			0.007	0.007	
10/23/2018 18:08			0.007	0.007	
10/23/2018 18:09			0.007	0.007	
10/23/2018 18:10	12.7	90.1	0.007	0.007	
10/23/2018 18:10					42.43163;-76.49899
10/23/2018 18:11			0.007	0.007	
10/23/2018 18:12			0.007	0.007	
10/23/2018 18:13			0.007	0.007	
10/23/2018 18:14			0.007	0.008	
10/23/2018 18:15	12.7	80	0.007	0.008	
10/23/2018 18:15					42.43166;-76.49902
10/23/2018 18:16			0.007	0.008	
10/23/2018 18:17			0.007	0.009	
10/23/2018 18:18			0.007	0.008	
10/23/2018 18:19			0.007	0.008	
10/23/2018 18:20	12.7	80	0.007	0.009	
10/23/2018 18:20					42.43164;-76.49905
10/23/2018 18:21			0.007	0.008	
10/23/2018 18:22			0.007	0.008	
10/23/2018 18:23			0.007	0.008	
10/23/2018 18:24			0.007	0.008	
10/23/2018 18:25	12.7	79	0.007	0.008	
10/23/2018 18:25					42.43164;-76.49902
10/23/2018 18:26			0.007	0.007	
10/23/2018 18:27			0.008	0.008	
10/23/2018 18:28			0.008	0.008	
10/23/2018 18:29			0.008	0.007	
10/23/2018 18:30	12.7	83	0.008	0.007	
10/23/2018 18:30					42.43167;-76.49897
10/23/2018 18:31			0.008	0.007	
10/23/2018 18:32			0.008	0.007	
10/23/2018 18:33			0.008	0.007	
10/23/2018 18:34			0.008	0.007	
10/23/2018 18:35	12.6	80	0.008	0.007	
10/23/2018 18:35					42.43167;-76.49897
10/23/2018 18:36			0.008	0.007	
10/23/2018 18:37			0.008	0.007	
10/23/2018 18:38			0.008	0.007	
10/23/2018 18:39			0.008	0.007	
10/23/2018 18:40	12.6	80	0.008	0.007	
10/23/2018 18:40					42.43167;-76.49898
10/23/2018 18:41			0.008	0.007	
10/23/2018 18:42			0.008	0.007	
10/23/2018 18:43			0.008	0.007	
10/23/2018 18:44			0.008	0.006	
10/23/2018 18:45	12.6	101.2	0.008	0.006	
10/23/2018 18:45					42.43177;-76.49895
10/23/2018 18:46			0.008	0.007	
10/23/2018 18:47			0.008	0.007	
10/23/2018 18:48			0.008	0.007	
10/23/2018 18:49			0.008	0.007	
10/23/2018 18:50	12.6	83	0.008	0.007	
10/23/2018 18:50					42.4318;-76.49892
10/23/2018 18:51			0.008	0.007	
10/23/2018 18:52			0.008	0.007	
10/23/2018 18:53			0.008	0.007	
10/23/2018 18:54			0.008	0.007	
10/23/2018 18:55	12.6	80	0.008	0.007	
10/23/2018 18:55					42.43192;-76.49895
10/23/2018 18:56			0.008	0.007	
10/23/2018 18:57			0.008	0.007	
10/23/2018 18:58			0.008	0.007	
10/23/2018 18:59			0.008	0.007	
10/23/2018 19:00	12.6	80	0.008	0.007	42.43201;-76.499
10/23/2018 19:01			0.008	0.007	
10/23/2018 19:02			0.008	0.007	
10/23/2018 19:03			0.008	0.007	
10/23/2018 19:04			0.008	0.009	
10/23/2018 19:05	12.6	80	0.008	0.007	42.43187;-76.49899
10/23/2018 19:06			0.008	0.007	
10/23/2018 19:07			0.008	0.007	
10/23/2018 19:08			0.008	0.007	
10/23/2018 19:09			0.008	0.007	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/23/2018 19:10	12.6	96.2	0.008	0.007	42.43176;-76.49896
10/23/2018 19:11			0.008	0.007	
10/23/2018 19:12			0.008	0.007	
10/23/2018 19:13			0.008	0.007	
10/23/2018 19:14			0.008	0.007	
10/23/2018 19:15	12.6	80	0.008	0.007	42.4317;-76.49897
10/23/2018 19:16			0.008	0.007	
10/23/2018 19:17			0.008	0.007	
10/23/2018 19:18			0.008	0.007	
10/23/2018 19:19			0.008	0.007	
10/23/2018 19:20	12.6	87	0.008	0.007	42.43167;-76.49895
10/23/2018 19:21			0.008	0.007	
10/23/2018 19:22			0.008	0.007	
10/23/2018 19:23			0.008	0.007	
10/23/2018 19:24			0.008	0.007	
10/23/2018 19:25	12.6	96.2	0.008	0.008	42.43169;-76.49897
10/23/2018 19:26			0.008	0.008	
10/23/2018 19:27			0.008	0.008	
10/23/2018 19:28			0.008	0.008	
10/23/2018 19:29			0.008	0.008	
10/23/2018 19:30	12.6	91.1	0.008	0.007	42.43165;-76.49895
10/23/2018 19:31			0.008	0.008	
10/23/2018 19:32			0.008	0.008	
10/23/2018 19:33			0.008	0.009	
10/23/2018 19:34			0.009	0.008	
10/23/2018 19:35	12.6	80	0.009	0.008	42.43162;-76.49896
10/23/2018 19:36			0.009	0.009	
10/23/2018 19:37			0.009	0.009	
10/23/2018 19:38			0.009	0.009	
10/23/2018 19:39			0.009	0.008	
10/23/2018 19:40	12.6	80	0.009	0.008	42.43163;-76.49899
10/23/2018 19:41			0.009	0.008	
10/23/2018 19:42			0.009	0.008	
10/23/2018 19:43			0.009	0.008	
10/23/2018 19:44			0.009	0.008	
10/23/2018 19:45	12.5	112.4	0.009	0.008	42.43162;-76.49897
10/23/2018 19:46			0.009	0.008	
10/23/2018 19:47			0.009	0.008	
10/23/2018 19:48			0.009	0.008	
10/23/2018 19:49			0.009	0.008	
10/23/2018 19:50	12.5	79	0.009	0.008	42.43161;-76.49899
10/23/2018 19:51			0.009	0.008	
10/23/2018 19:52			0.009	0.008	
10/23/2018 19:53			0.009	0.008	
10/23/2018 19:54			0.009	0.008	
10/23/2018 19:55	12.5	93.1	0.009	0.008	42.43164;-76.49898
10/23/2018 19:56			0.009	0.008	
10/23/2018 19:57			0.009	0.008	
10/23/2018 19:58			0.009	0.008	
10/23/2018 19:59			0.009	0.009	
10/23/2018 20:00	12.5	84	0.009	0.008	42.43163;-76.49895
10/23/2018 20:01			0.009	0.008	
10/23/2018 20:02			0.009	0.009	
10/23/2018 20:03			0.009	0.008	
10/23/2018 20:04			0.009	0.008	
10/23/2018 20:05	12.5	93.1	0.009	0.008	42.43165;-76.49899
10/23/2018 20:06			0.009	0.008	
10/23/2018 20:07			0.009	0.009	
10/23/2018 20:08			0.009	0.009	
10/23/2018 20:09			0.009	0.008	
10/23/2018 20:10	12.5	79	0.009	0.009	42.43159;-76.49895
10/24/2018 12:16	13.2	97.2			
10/24/2018 12:19			0	0.006	
10/24/2018 12:20	12.9	83	0	0.006	
10/24/2018 12:20					42.42845;-76.50143
10/24/2018 12:21			0	0.005	
10/24/2018 12:22			0	0.004	
10/24/2018 12:23			0	0.004	
10/24/2018 12:24			0	0.005	
10/24/2018 12:25	12.9	84	0	0.005	
10/24/2018 12:25					42.42849;-76.50137
10/24/2018 12:26			0	0.004	
10/24/2018 12:27			0	0.004	
10/24/2018 12:28			0	0.004	
10/24/2018 12:29			0	0.005	
10/24/2018 12:30	12.9	79	0	0.005	42.42962;-76.50076
10/24/2018 12:31			0	0.004	
10/24/2018 12:32			0	0.004	
10/24/2018 12:33			0	0.004	
10/24/2018 12:34			0	0.004	
10/24/2018 12:35	12.9	83	0	0.004	42.42862;-76.50128
10/24/2018 12:36			0	0.004	
10/24/2018 12:37			0	0.004	
10/24/2018 12:38			0	0.004	
10/24/2018 12:39			0	0.004	
10/24/2018 12:40	12.9	80	0	0.004	42.42839;-76.50146
10/24/2018 12:41			0	0.004	
10/24/2018 12:42			0	0.005	
10/24/2018 12:43			0	0.004	
10/24/2018 12:44			0	0.004	
10/24/2018 12:45	12.9	87	0	0.004	42.42826;-76.5014
10/24/2018 12:46			0	0.004	
10/24/2018 12:47			0	0.004	
10/24/2018 12:48			0	0.004	
10/24/2018 12:49			0	0.004	
10/24/2018 12:50	12.9	95.1	0	0.004	42.42822;-76.5015
10/24/2018 12:51			0	0.004	
10/24/2018 12:52			0	0.004	
10/24/2018 12:53			0	0.004	
10/24/2018 12:54			0	0.004	
10/24/2018 12:55	12.9	80	0	0.006	42.42812;-76.5016
10/24/2018 12:56			0	0.006	
10/24/2018 12:57			0	0.016	
10/24/2018 12:58			0	0.009	
10/24/2018 12:59			0	0.005	
10/24/2018 13:00	12.9	88.1	0	0.004	42.42829;-76.50153
10/24/2018 13:01			0	0.003	
10/24/2018 13:02			0	0.004	
10/24/2018 13:03			0	0.006	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/24/2018 13:04			0	0.004	
10/24/2018 13:05	12.9	77.9	0	0.004	42.42839;-76.50145
10/24/2018 13:06			0	0.003	
10/24/2018 13:07			0	0.004	
10/24/2018 13:08			0	0.003	
10/24/2018 13:09			0	0.003	
10/24/2018 13:10	12.9	84	0	0.003	42.42841;-76.50151
10/24/2018 13:11			0	0.003	
10/24/2018 13:12			0	0.003	
10/24/2018 13:13			0.001	0.003	
10/24/2018 13:14			0.001	0.003	
10/24/2018 13:15	12.9	88.1	0.001	0.004	42.42831;-76.50143
10/24/2018 13:16			0.001	0.006	
10/24/2018 13:17			0.001	0.004	
10/24/2018 13:18			0.001	0.004	
10/24/2018 13:19			0.001	0.004	
10/24/2018 13:20	12.9	97.2	0.001	0.003	42.42836;-76.50143
10/24/2018 13:21			0.001	0.003	
10/24/2018 13:22			0.001	0.003	
10/24/2018 13:23			0.001	0.003	
10/24/2018 13:24			0.001	0.003	
10/24/2018 13:25	12.9	77.9	0.001	0.003	42.42853;-76.50147
10/24/2018 13:26			0.001	0.003	
10/24/2018 13:27			0.001	0.004	
10/24/2018 13:28			0.001	0.003	
10/24/2018 13:29			0.001	0.003	
10/24/2018 13:30	12.9	82	0.001	0.004	42.42843;-76.50151
10/24/2018 13:31			0.001	0.004	
10/24/2018 13:32			0.001	0.003	
10/24/2018 13:33			0.001	0.004	
10/24/2018 13:34			0.001	0.003	
10/24/2018 13:35	12.8	81	0.001	0.003	42.42833;-76.50142
10/24/2018 13:36			0.001	0.003	
10/24/2018 13:37			0.001	0.003	
10/24/2018 13:38			0.001	0.003	
10/24/2018 13:39			0.001	0.004	
10/24/2018 13:40	12.8	80	0.001	0.004	42.42844;-76.50149
10/24/2018 13:41			0.001	0.004	
10/24/2018 13:42			0.001	0.003	
10/24/2018 13:43			0.001	0.003	
10/24/2018 13:44			0.001	0.003	
10/24/2018 13:45	12.8	80	0.001	0.003	42.42846;-76.50149
10/24/2018 13:46			0.001	0.003	
10/24/2018 13:47			0.001	0.003	
10/24/2018 13:48			0.001	0.003	
10/24/2018 13:49			0.001	0.004	
10/24/2018 13:50	12.8	81	0.001	0.004	42.42854;-76.50144
10/24/2018 13:51			0.001	0.006	
10/24/2018 13:52			0.001	0.005	
10/24/2018 13:53			0.001	0.005	
10/24/2018 13:54			0.001	0.004	
10/24/2018 13:55	12.8	83	0.001	0.003	42.42838;-76.50142
10/24/2018 13:56			0.001	0.004	
10/24/2018 13:57			0.001	0.003	
10/24/2018 13:58			0.001	0.003	
10/24/2018 13:59			0.001	0.003	
10/24/2018 14:00	12.8	77.9	0.001	0.003	42.42845;-76.50145
10/24/2018 14:01			0.001	0.003	
10/24/2018 14:02			0.001	0.003	
10/24/2018 14:03			0.001	0.003	
10/24/2018 14:04			0.001	0.003	
10/24/2018 14:05	12.8	77.9	0.001	0.003	42.42846;-76.50144
10/24/2018 14:06			0.001	0.003	
10/24/2018 14:07			0.001	0.004	
10/24/2018 14:08			0.001	0.003	
10/24/2018 14:09			0.001	0.003	
10/24/2018 14:10	12.8	88.1	0.001	0.003	42.42847;-76.5015
10/24/2018 14:11			0.001	0.003	
10/24/2018 14:12			0.001	0.003	
10/24/2018 14:13			0.001	0.003	
10/24/2018 14:14			0.001	0.003	
10/24/2018 14:15	12.8	81	0.001	0.003	42.42845;-76.50139
10/24/2018 14:16			0.001	0.003	
10/24/2018 14:17			0.001	0.003	
10/24/2018 14:18			0.001	0.004	
10/24/2018 14:19			0.001	0.003	
10/24/2018 14:20	12.8	80	0.001	0.003	42.42839;-76.50139
10/24/2018 14:21			0.001	0.004	
10/24/2018 14:22			0.001	0.003	
10/24/2018 14:23			0.001	0.003	
10/24/2018 14:24			0.001	0.003	
10/24/2018 14:25	12.8	79	0.001	0.003	42.42849;-76.50147
10/24/2018 14:26			0.001	0.003	
10/24/2018 14:27			0.001	0.003	
10/24/2018 14:28			0.001	0.003	
10/24/2018 14:29			0.001	0.003	
10/24/2018 14:30	12.8	79	0.001	0.004	42.42854;-76.50149
10/24/2018 14:31			0.001	0.004	
10/24/2018 14:32			0.001	0.004	
10/24/2018 14:33			0.001	0.003	
10/24/2018 14:34			0.001	0.004	
10/24/2018 14:35	12.8	93.1	0.001	0.004	42.42843;-76.5014
10/24/2018 14:36			0.001	0.004	
10/24/2018 14:37			0.001	0.004	
10/24/2018 14:38			0.001	0.004	
10/24/2018 14:39			0.001	0.004	
10/24/2018 14:40	12.8	79	0.001	0.004	42.42846;-76.50146
10/24/2018 14:41			0.001	0.004	
10/24/2018 14:42			0.001	0.005	
10/24/2018 14:43			0.001	0.004	
10/24/2018 14:44			0.001	0.005	
10/24/2018 14:45	12.8	79	0.001	0.006	42.42851;-76.50146
10/24/2018 14:46			0.001	0.005	
10/24/2018 14:47			0.001	0.005	
10/24/2018 14:48			0.001	0.005	
10/24/2018 14:49			0.001	0.005	
10/24/2018 14:50	12.8	79	0.001	0.005	42.42862;-76.50143
10/24/2018 14:51			0.001	0.005	
10/24/2018 14:52			0.001	0.005	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/24/2018 14:53			0.001	0.005	
10/24/2018 14:54			0.001	0.005	
10/24/2018 14:55	12.8	76.9	0.001	0.005	42.4286;-76.5015
10/24/2018 14:56			0.001	0.005	
10/24/2018 14:57			0.001	0.005	
10/24/2018 14:58			0.001	0.005	
10/24/2018 14:59			0.001	0.005	
10/24/2018 15:00	12.8	77.9	0.001	0.005	42.42833;-76.5014
10/24/2018 15:01			0.001	0.005	
10/24/2018 15:02			0.001	0.005	
10/24/2018 15:03			0.001	0.005	
10/24/2018 15:04			0.001	0.005	
10/24/2018 15:05	12.8	91.1	0.001	0.005	
10/24/2018 15:05					42.4284;-76.50146
10/24/2018 15:06			0.001	0.005	
10/24/2018 15:07			0.001	0.005	
10/24/2018 15:08			0.001	0.005	
10/24/2018 15:09			0.001	0.005	
10/24/2018 15:10	12.8	79	0.001	0.005	
10/24/2018 15:10					42.42851;-76.5014
10/24/2018 15:11			0.001	0.005	
10/24/2018 15:12			0.001	0.005	
10/24/2018 15:13			0.001	0.005	
10/24/2018 15:14			0.001	0.005	
10/24/2018 15:15	12.8	79	0.001	0.005	
10/24/2018 15:15					42.42865;-76.50143
10/24/2018 15:16			0.002	0.005	
10/24/2018 15:17			0.002	0.005	
10/24/2018 15:18			0.002	0.005	
10/24/2018 15:19			0.002	0.005	
10/24/2018 15:20	12.8	81	0.002	0.005	
10/24/2018 15:20					42.42849;-76.5014
10/24/2018 15:21			0.002	0.005	
10/24/2018 15:22			0.002	0.005	
10/24/2018 15:23			0.002	0.006	
10/24/2018 15:24			0.002	0.005	
10/24/2018 15:25	12.8	84	0.002	0.005	
10/24/2018 15:25					42.42831;-76.50137
10/24/2018 15:26			0.002	0.005	
10/24/2018 15:27			0.002	0.007	
10/24/2018 15:28			0.002	0.005	
10/24/2018 15:29			0.002	0.005	
10/24/2018 15:30	12.7	76.9	0.002	0.005	
10/24/2018 15:30					42.42819;-76.50141
10/24/2018 15:31			0.002	0.005	
10/24/2018 15:32			0.002	0.005	
10/24/2018 15:33			0.002	0.005	
10/24/2018 15:34			0.002	0.005	
10/24/2018 15:35	12.7	82	0.002	0.005	
10/24/2018 15:35					42.42853;-76.50133
10/24/2018 15:36			0.002	0.005	
10/24/2018 15:37			0.002	0.005	
10/24/2018 15:38			0.002	0.005	
10/24/2018 15:39			0.002	0.005	
10/24/2018 15:40	12.7	84	0.002	0.005	
10/24/2018 15:40					42.42853;-76.50133
10/24/2018 15:41			0.002	0.005	
10/24/2018 15:42			0.002	0.005	
10/24/2018 15:43			0.002	0.005	
10/24/2018 15:44			0.002	0.005	
10/24/2018 15:45	12.7	81	0.002	0.006	
10/24/2018 15:45					42.42845;-76.50133
10/24/2018 15:46			0.002	0.006	
10/24/2018 15:47			0.002	0.006	
10/24/2018 15:48			0.002	0.006	
10/24/2018 15:49			0.002	0.006	
10/24/2018 15:50	12.7	79	0.002	0.008	
10/24/2018 15:50					42.42858;-76.50128
10/24/2018 15:51			0.002	0.007	
10/24/2018 15:52			0.002	0.006	
10/24/2018 15:53			0.002	0.006	
10/24/2018 15:54			0.002	0.007	
10/24/2018 15:55	12.7	77.9	0.002	0.007	
10/24/2018 15:55					42.42866;-76.5014
10/24/2018 15:56			0.002	0.007	
10/24/2018 15:57			0.002	0.007	
10/24/2018 15:58			0.002	0.007	
10/24/2018 15:59			0.002	0.006	
10/24/2018 16:00	12.7	91.1	0.002	0.006	
10/24/2018 16:00					42.42858;-76.50147
10/24/2018 16:01			0.002	0.006	
10/24/2018 16:02			0.002	0.006	
10/24/2018 16:03			0.002	0.006	
10/24/2018 16:04			0.002	0.006	
10/24/2018 16:05	12.7	80	0.002	0.006	
10/24/2018 16:05					42.4284;-76.50136
10/24/2018 16:06			0.002	0.006	
10/24/2018 16:07			0.002	0.006	
10/24/2018 16:08			0.002	0.006	
10/24/2018 16:09			0.002	0.006	
10/24/2018 16:10	12.7	87	0.002	0.007	
10/24/2018 16:10					42.42869;-76.5015
10/24/2018 16:11			0.002	0.008	
10/24/2018 16:12			0.002	0.008	
10/24/2018 16:13			0.002	0.007	
10/24/2018 16:14			0.002	0.006	
10/24/2018 16:15	12.7	77.9	0.002	0.006	
10/24/2018 16:15					42.42838;-76.50146
10/24/2018 16:16			0.002	0.006	
10/24/2018 16:17			0.002	0.006	
10/24/2018 16:18			0.002	0.006	
10/24/2018 16:19			0.002	0.006	
10/24/2018 16:20	12.7	77.9	0.002	0.006	
10/24/2018 16:20					42.42823;-76.50143
10/24/2018 16:21			0.002	0.006	
10/24/2018 16:22			0.002	0.006	
10/24/2018 16:23			0.002	0.006	
10/24/2018 16:24			0.002	0.005	
10/24/2018 16:25	12.7	82	0.002	0.006	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/24/2018 16:25					42.42821;-76.50137
10/24/2018 16:26			0.002	0.006	
10/24/2018 16:27			0.002	0.006	
10/24/2018 16:28			0.002	0.006	
10/24/2018 16:29			0.002	0.005	
10/24/2018 16:30	12.7	79	0.002	0.005	
10/24/2018 16:30					42.42833;-76.50142
10/24/2018 16:31			0.002	0.005	
10/24/2018 16:32			0.002	0.005	
10/24/2018 16:33			0.002	0.005	
10/24/2018 16:34			0.002	0.005	
10/24/2018 16:35	12.7	86	0.002	0.005	
10/24/2018 16:35					42.42851;-76.5015
10/24/2018 16:36			0.002	0.005	
10/24/2018 16:37			0.002	0.005	
10/24/2018 16:38			0.002	0.005	
10/24/2018 16:39			0.002	0.004	
10/24/2018 16:40	12.7	82	0.003	0.004	
10/24/2018 16:40					42.42837;-76.50137
10/24/2018 16:41			0.003	0.004	
10/24/2018 16:42			0.003	0.004	
10/24/2018 16:43			0.003	0.004	
10/24/2018 16:44			0.003	0.004	
10/24/2018 16:45	12.7	84	0.003	0.004	
10/24/2018 16:45					42.42844;-76.5014
10/24/2018 16:46			0.003	0.005	
10/24/2018 16:47			0.003	0.005	
10/24/2018 16:48			0.003	0.004	
10/24/2018 16:49			0.003	0.004	
10/24/2018 16:50	12.7	79	0.003	0.005	
10/24/2018 16:50					42.42863;-76.50162
10/24/2018 16:51			0.003	0.004	
10/24/2018 16:52			0.003	0.005	
10/24/2018 16:53			0.003	0.005	
10/24/2018 16:54			0.003	0.005	
10/24/2018 16:55	12.7	102.2	0.003	0.004	
10/24/2018 16:55					42.42857;-76.50152
10/24/2018 16:56			0.003	0.005	
10/24/2018 16:57			0.003	0.004	
10/24/2018 16:58			0.003	0.005	
10/24/2018 16:59			0.003	0.005	
10/24/2018 17:00	12.7	82	0.003	0.005	
10/24/2018 17:00					42.42854;-76.5015
10/24/2018 17:01			0.003	0.005	
10/24/2018 17:02			0.003	0.005	
10/24/2018 17:03			0.003	0.005	
10/24/2018 17:04			0.003	0.005	
10/24/2018 17:05	12.7	83	0.003	0.005	
10/24/2018 17:05					42.42849;-76.50143
10/24/2018 17:06			0.003	0.005	
10/24/2018 17:07			0.003	0.005	
10/24/2018 17:08			0.003	0.005	
10/24/2018 17:09			0.003	0.005	
10/24/2018 17:10	12.7	77.9	0.003	0.005	
10/24/2018 17:10					42.42863;-76.50159
10/24/2018 17:11			0.003	0.005	
10/24/2018 17:12			0.003	0.005	
10/24/2018 17:13			0.003	0.005	
10/24/2018 17:14			0.003	0.005	
10/24/2018 17:15	12.7	99.2	0.003	0.005	
10/24/2018 17:15					42.42855;-76.50143
10/24/2018 17:16			0.003	0.005	
10/24/2018 17:17			0.003	0.005	
10/24/2018 17:18			0.003	0.007	
10/24/2018 17:19			0.003	0.006	
10/24/2018 17:20	12.6	90.1	0.003	0.005	
10/24/2018 17:20					42.42848;-76.50137
10/24/2018 17:21			0.003	0.005	
10/24/2018 17:22			0.003	0.005	
10/24/2018 17:23			0.003	0.005	
10/24/2018 17:24			0.003	0.005	
10/24/2018 17:25	12.6	83	0.003	0.005	
10/24/2018 17:25					42.4285;-76.50137
10/24/2018 17:26			0.003	0.005	
10/24/2018 17:27			0.003	0.005	
10/24/2018 17:28			0.003	0.005	
10/24/2018 17:29			0.003	0.005	
10/24/2018 17:30	12.6	79	0.003	0.005	
10/24/2018 17:30					42.4285;-76.50139
10/24/2018 17:31			0.003	0.005	
10/24/2018 17:32			0.003	0.005	
10/24/2018 17:33			0.003	0.005	
10/24/2018 17:34			0.003	0.005	
10/24/2018 17:35	12.6	83	0.003	0.005	
10/24/2018 17:35					42.42855;-76.50146
10/24/2018 17:36			0.003	0.005	
10/24/2018 17:37			0.003	0.005	
10/24/2018 17:38			0.003	0.005	
10/24/2018 17:39			0.003	0.005	
10/24/2018 17:40	12.6	87	0.003	0.005	
10/24/2018 17:40					42.4286;-76.50152
10/24/2018 17:41			0.003	0.005	
10/24/2018 17:42			0.003	0.005	
10/24/2018 17:43			0.003	0.006	
10/24/2018 17:44			0.003	0.006	
10/24/2018 17:45	12.6	91.1	0.003	0.006	
10/24/2018 17:45					42.42847;-76.50142
10/24/2018 17:46			0.003	0.006	
10/24/2018 17:47			0.003	0.006	
10/24/2018 17:48			0.003	0.006	
10/24/2018 17:49			0.003	0.006	
10/24/2018 17:50	12.6	83	0.003	0.006	
10/24/2018 17:50					42.42849;-76.50143
10/24/2018 17:51			0.003	0.006	
10/24/2018 17:52			0.003	0.006	
10/24/2018 17:53			0.003	0.006	
10/24/2018 17:54			0.003	0.006	
10/24/2018 17:55	12.6	77.9	0.003	0.006	
10/24/2018 17:55					42.42849;-76.50143

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/24/2018 17:56			0.003	0.006	
10/24/2018 17:57			0.003	0.006	
10/24/2018 17:58			0.003	0.006	
10/24/2018 17:59			0.003	0.006	
10/24/2018 18:00	12.6	86	0.003	0.006	
10/24/2018 18:00					42.42847;-76.50144
10/24/2018 18:01			0.003	0.007	
10/24/2018 18:02			0.003	0.009	
10/24/2018 18:03			0.003	0.009	
10/24/2018 18:04			0.003	0.007	
10/24/2018 18:05	12.6	86	0.003	0.007	
10/24/2018 18:05					42.4285;-76.50145
10/24/2018 18:06			0.003	0.007	
10/24/2018 18:07			0.003	0.006	
10/24/2018 18:08			0.003	0.007	
10/24/2018 18:09			0.004	0.006	
10/24/2018 18:10	12.6	89.1	0.004	0.007	
10/24/2018 18:10					42.42847;-76.50147
10/24/2018 18:11			0.004	0.007	
10/24/2018 18:12			0.004	0.007	
10/24/2018 18:13			0.004	0.007	
10/24/2018 18:14			0.004	0.007	
10/24/2018 18:15	12.6	80	0.004	0.008	
10/24/2018 18:15					42.42853;-76.5015
10/24/2018 18:16			0.004	0.007	
10/24/2018 18:17			0.004	0.007	
10/24/2018 18:18			0.004	0.007	
10/24/2018 18:19			0.004	0.007	
10/24/2018 18:20	12.5	79	0.004	0.007	
10/24/2018 18:20					42.42845;-76.50137
10/24/2018 18:21			0.004	0.007	
10/24/2018 18:22			0.004	0.007	
10/24/2018 18:23			0.004	0.007	
10/24/2018 18:24			0.004	0.007	
10/24/2018 18:25	12.5	80	0.004	0.007	
10/24/2018 18:25					42.42834;-76.50134
10/24/2018 18:26			0.004	0.007	
10/24/2018 18:27			0.004	0.007	
10/24/2018 18:28			0.004	0.007	
10/24/2018 18:29			0.004	0.007	
10/24/2018 18:30	12.5	87	0.004	0.008	
10/24/2018 18:30					42.4278;-76.50085
10/24/2018 18:31			0.004	0.007	
10/24/2018 18:32			0.004	0.008	
10/24/2018 18:33			0.004	0.008	
10/24/2018 18:34			0.004	0.008	
10/24/2018 18:35	12.5	100.2	0.004	0.008	
10/24/2018 18:35					42.42784;-76.50051
10/24/2018 18:36			0.004	0.008	
10/24/2018 18:37			0.004	0.008	
10/24/2018 18:38			0.004	0.007	
10/24/2018 18:39			0.004	0.007	
10/24/2018 18:40	12.5	79	0.004	0.007	
10/24/2018 18:40					42.42878;-76.50161
10/24/2018 18:41			0.004	0.007	
10/24/2018 18:42			0.004	0.008	
10/24/2018 18:43			0.004	0.008	
10/24/2018 18:44			0.004	0.008	
10/24/2018 18:45	12.5	79	0.004	0.008	
10/24/2018 18:45					42.42846;-76.5014
10/24/2018 18:46			0.004	0.008	
10/24/2018 18:47			0.004	0.008	
10/24/2018 18:48			0.004	0.008	
10/24/2018 18:49			0.004	0.008	
10/24/2018 18:50	12.5	79	0.004	0.008	
10/24/2018 18:50					42.42849;-76.50134
10/24/2018 18:51			0.004	0.008	
10/24/2018 18:52			0.004	0.009	
10/24/2018 18:53			0.004	0.008	
10/24/2018 18:54			0.004	0.008	
10/24/2018 18:55	12.5	79	0.004	0.008	
10/24/2018 18:55					42.42831;-76.50127
10/24/2018 18:56			0.004	0.008	
10/24/2018 18:57			0.004	0.008	
10/24/2018 18:58			0.004	0.008	
10/24/2018 18:59			0.004	0.008	
10/24/2018 19:00	12.5	82	0.004	0.008	
10/24/2018 19:00					42.42856;-76.50143
10/24/2018 19:01			0.004	0.008	
10/24/2018 19:02			0.004	0.008	
10/24/2018 19:03			0.004	0.008	
10/24/2018 19:04			0.004	0.008	
10/24/2018 19:05	12.5	80	0.004	0.008	
10/24/2018 19:05					42.42842;-76.50136
10/24/2018 19:06			0.004	0.008	
10/24/2018 19:07			0.004	0.008	
10/24/2018 19:08			0.004	0.007	
10/24/2018 19:09			0.004	0.007	
10/24/2018 19:10	12.5	86	0.004	0.007	
10/24/2018 19:10					42.42858;-76.50139
10/24/2018 19:11			0.004	0.007	
10/24/2018 19:12			0.004	0.008	
10/24/2018 19:13			0.005	0.008	
10/24/2018 19:14			0.005	0.008	
10/24/2018 19:15	12.5	86	0.005	0.007	
10/24/2018 19:15					42.42838;-76.50135
10/24/2018 19:16			0.005	0.007	
10/24/2018 19:17			0.005	0.008	
10/24/2018 19:18			0.005	0.007	
10/24/2018 19:19			0.005	0.007	
10/24/2018 19:20	12.5	80	0.005	0.007	
10/24/2018 19:20					42.42842;-76.50135
10/24/2018 19:21			0.005	0.007	
10/24/2018 19:22			0.005	0.007	
10/24/2018 19:23			0.005	0.007	
10/24/2018 19:24			0.005	0.007	
10/24/2018 19:25	12.5	84	0.005	0.007	
10/24/2018 19:25					42.42841;-76.50134
10/24/2018 19:26			0.005	0.007	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/24/2018 19:27			0.005	0.007	
10/24/2018 19:28			0.005	0.007	
10/24/2018 19:29			0.005	0.007	
10/24/2018 19:30	12.5	80	0.005	0.007	
10/24/2018 19:30					42.4285;-76.50139
10/24/2018 19:31			0.005	0.008	
10/24/2018 19:32			0.005	0.008	
10/24/2018 19:33			0.005	0.01	
10/24/2018 19:34			0.005	0.009	
10/24/2018 19:35	12.4	86	0.005	0.008	42.4285;-76.50136
10/24/2018 19:36			0.005	0.008	
10/24/2018 19:37			0.005	0.008	
10/24/2018 19:38			0.005	0.009	
10/24/2018 19:39			0.005	0.007	
10/24/2018 19:40	12.4	81	0.005	0.008	42.42832;-76.50135
10/24/2018 19:41			0.005	0.007	
10/24/2018 19:42			0.005	0.011	
10/24/2018 19:43			0.005	0.008	
10/24/2018 19:44			0.005	0.007	
10/24/2018 19:45	12.4	80	0.005	0.007	42.42847;-76.50133
10/24/2018 19:46			0.005	0.009	
10/24/2018 19:47			0.005	0.008	
10/24/2018 19:48			0.005	0.009	
10/24/2018 19:49			0.005	0.008	
10/24/2018 19:50	12.4	81	0.005	0.008	42.42848;-76.50134
10/24/2018 19:51			0.005	0.009	
10/24/2018 19:52			0.005	0.01	
10/24/2018 19:53			0.005	0.008	
10/24/2018 19:54			0.005	0.01	
10/24/2018 19:55	12.4	93.1	0.005	0.008	42.42844;-76.50133
10/24/2018 19:56			0.005	0.008	
10/24/2018 19:57			0.005	0.01	
10/24/2018 19:58			0.005	0.008	
10/24/2018 19:59			0.005	0.007	
10/24/2018 20:00	12.4	81	0.005	0.007	42.42847;-76.50137
10/24/2018 20:01			0.005	0.007	
10/24/2018 20:02			0.005	0.007	
10/24/2018 20:03			0.005	0.008	
10/24/2018 20:04			0.005	0.007	
10/24/2018 20:05	12.4	86	0.005	0.008	42.42849;-76.50141
10/24/2018 20:06			0.005	0.008	
10/24/2018 20:07			0.005	0.008	
10/24/2018 20:08			0.005	0.007	
10/24/2018 20:09			0.005	0.007	
10/24/2018 20:10	12.4	83	0.005	0.008	42.42849;-76.5014
10/24/2018 20:11			0.005	0.008	
10/24/2018 20:12			0.005	0.009	
10/24/2018 20:13			0.005	0.008	
10/24/2018 20:14			0.006	0.008	
10/24/2018 20:15	12.4	79	0.006	0.008	42.42852;-76.50118
10/24/2018 20:16			0.006	0.008	
10/24/2018 20:17			0.006	0.008	
10/24/2018 20:18			0.006	0.009	
10/24/2018 20:19			0.006	0.008	
10/24/2018 20:20	12.4	91.1	0.006	0.008	42.42844;-76.50143
10/24/2018 20:21			0.006	0.01	
10/24/2018 20:22			0.006	0.008	
10/24/2018 20:23			0.006	0.014	
10/24/2018 20:24			0.006	0.011	
10/24/2018 20:25	12.4	84	0.006	0.009	42.42849;-76.50143
10/24/2018 20:26			0.006	0.008	
10/24/2018 20:27			0.006	0.008	
10/24/2018 20:28			0.006	0.011	
10/24/2018 20:29			0.006	0.01	
10/24/2018 20:30	12.4	90.1	0.006	0.009	42.42845;-76.50134
10/24/2018 20:31			0.006	0.008	
10/24/2018 20:32			0.006	0.008	
10/24/2018 20:33			0.006	0.008	
10/24/2018 20:34			0.006	0.009	
10/24/2018 20:35	12.4	86	0.006	0.008	42.42846;-76.50142
10/24/2018 20:36			0.006	0.008	
10/24/2018 20:37			0.006	0.008	
10/24/2018 20:38			0.006	0.008	
10/24/2018 20:39			0.006	0.009	
10/24/2018 20:40	12.4	82	0.006	0.008	42.42845;-76.50143
10/24/2018 20:41			0.006	0.008	
10/24/2018 20:42			0.006	0.008	
10/24/2018 20:43			0.006	0.007	
10/24/2018 20:44			0.006	0.007	
10/24/2018 20:45	12.4	84	0.006	0.008	42.42847;-76.50135
10/24/2018 20:46			0.006	0.01	
10/25/2018 12:07	13.2	98.2			
10/25/2018 12:10	13	101.2	0	0.008	
10/25/2018 12:10					42.42889;-76.50117
10/25/2018 12:11			0	0.008	
10/25/2018 12:12			0	0.008	
10/25/2018 12:13			0	0.009	
10/25/2018 12:14			0	0.021	
10/25/2018 12:15	13	77.9	0	0.012	
10/25/2018 12:15					42.42838;-76.50138
10/25/2018 12:16			0	0.01	
10/25/2018 12:17			0	0.009	
10/25/2018 12:18			0	0.008	
10/25/2018 12:19			0	0.008	
10/25/2018 12:20	13	85	0	0.008	
10/25/2018 12:20					42.42838;-76.50146
10/25/2018 12:21			0	0.009	
10/25/2018 12:22			0	0.008	
10/25/2018 12:23			0	0.008	
10/25/2018 12:24			0	0.009	
10/25/2018 12:25	13	83	0	0.008	
10/25/2018 12:25					42.4284;-76.50146
10/25/2018 12:26			0	0.008	
10/25/2018 12:27			0	0.008	
10/25/2018 12:28			0	0.008	
10/25/2018 12:29			0	0.008	
10/25/2018 12:30	13	74.9	0	0.008	
10/25/2018 12:30					42.42854;-76.50134
10/25/2018 12:31			0	0.008	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/25/2018 12:32			0	0.007	
10/25/2018 12:33			0	0.007	
10/25/2018 12:34			0	0.007	
10/25/2018 12:35	12.9	77.9	0	0.007	
10/25/2018 12:35					42.42839;-76.50142
10/25/2018 12:36			0	0.009	
10/25/2018 12:37			0	0.01	
10/25/2018 12:38			0.001	0.008	
10/25/2018 12:39			0.001	0.008	
10/25/2018 12:40	12.9	92.1	0.001	0.008	
10/25/2018 12:40					42.42847;-76.50141
10/25/2018 12:41			0.001	0.008	
10/25/2018 12:42			0.001	0.007	
10/25/2018 12:43			0.001	0.008	
10/25/2018 12:44			0.001	0.016	
10/25/2018 12:45	12.9	77.9	0.001	0.01	
10/25/2018 12:45					42.42848;-76.50138
10/25/2018 12:46			0.001	0.022	
10/25/2018 12:47			0.001	0.011	
10/25/2018 12:48			0.001	0.008	
10/25/2018 12:49			0.001	0.012	
10/25/2018 12:50	12.9	81	0.001	0.01	
10/25/2018 12:50					42.42849;-76.5014
10/25/2018 12:51			0.001	0.012	
10/25/2018 12:52			0.001	0.009	
10/25/2018 12:53			0.001	0.008	
10/25/2018 12:54			0.001	0.009	
10/25/2018 12:55	12.9	75.9	0.001	0.012	42.42822;-76.50153
10/25/2018 12:56			0.001	0.009	
10/25/2018 12:57			0.001	0.009	
10/25/2018 12:58			0.001	0.008	
10/25/2018 12:59			0.001	0.007	
10/25/2018 13:00	12.9	75.9	0.001	0.007	42.42833;-76.50151
10/25/2018 13:01			0.001	0.008	
10/25/2018 13:02			0.001	0.007	
10/25/2018 13:03			0.001	0.007	
10/25/2018 13:04			0.001	0.007	
10/25/2018 13:05	12.9	79	0.001	0.007	42.4282;-76.5015
10/25/2018 13:06			0.001	0.007	
10/25/2018 13:07			0.001	0.011	
10/25/2018 13:08			0.001	0.007	
10/25/2018 13:09			0.001	0.007	
10/25/2018 13:10	12.9	82	0.001	0.008	42.42804;-76.50148
10/25/2018 13:11			0.001	0.008	
10/25/2018 13:12			0.001	0.012	
10/25/2018 13:13			0.001	0.01	
10/25/2018 13:14			0.001	0.008	
10/25/2018 13:15	12.9	75.9	0.001	0.01	42.42833;-76.50148
10/25/2018 13:16			0.001	0.007	
10/25/2018 13:17			0.001	0.007	
10/25/2018 13:18			0.001	0.007	
10/25/2018 13:19			0.001	0.007	
10/25/2018 13:20	12.9	75.9	0.001	0.007	42.42836;-76.5015
10/25/2018 13:21			0.001	0.007	
10/25/2018 13:22			0.001	0.011	
10/25/2018 13:23			0.001	0.008	
10/25/2018 13:24			0.001	0.007	
10/25/2018 13:25	12.9	77.9	0.001	0.007	42.42845;-76.5015
10/25/2018 13:26			0.001	0.007	
10/25/2018 13:27			0.001	0.007	
10/25/2018 13:28			0.001	0.011	
10/25/2018 13:29			0.001	0.012	
10/25/2018 13:30	12.9	95.1	0.001	0.007	42.42848;-76.50153
10/25/2018 13:31			0.002	0.012	
10/25/2018 13:32			0.002	0.014	
10/25/2018 13:33			0.002	0.007	
10/25/2018 13:34			0.002	0.007	
10/25/2018 13:35	12.9	86	0.002	0.006	42.42841;-76.50143
10/25/2018 13:36			0.002	0.007	
10/25/2018 13:37			0.002	0.007	
10/25/2018 13:38			0.002	0.007	
10/25/2018 13:39			0.002	0.006	
10/25/2018 13:40	12.9	106.3	0.002	0.011	42.42849;-76.5015
10/25/2018 13:41			0.002	0.011	
10/25/2018 13:42			0.002	0.008	
10/25/2018 13:43			0.002	0.008	
10/25/2018 13:44			0.002	0.006	
10/25/2018 13:45	12.9	79	0.002	0.006	42.42847;-76.50149
10/25/2018 13:46			0.002	0.017	
10/25/2018 13:47			0.002	0.007	
10/25/2018 13:48			0.002	0.006	
10/25/2018 13:49			0.002	0.006	
10/25/2018 13:50	12.9	102.2	0.002	0.006	
10/25/2018 13:50					42.42848;-76.5015
10/25/2018 13:51			0.002	0.009	
10/25/2018 13:52			0.002	0.009	
10/25/2018 13:53			0.002	0.008	
10/25/2018 13:54			0.002	0.019	
10/25/2018 13:55	12.9	81	0.002	0.008	
10/25/2018 13:55					42.42842;-76.5015
10/25/2018 13:56			0.002	0.008	
10/25/2018 13:57			0.002	0.01	
10/25/2018 13:58			0.002	0.01	
10/25/2018 13:59			0.002	0.008	
10/25/2018 14:00	12.9	79	0.002	0.01	
10/25/2018 14:00					42.4284;-76.5014
10/25/2018 14:01			0.002	0.009	
10/25/2018 14:02			0.002	0.013	
10/25/2018 14:03			0.002	0.015	
10/25/2018 14:04			0.002	0.009	
10/25/2018 14:05	12.9	76.9	0.002	0.009	
10/25/2018 14:05					42.42849;-76.50143
10/25/2018 14:06			0.002	0.008	
10/25/2018 14:07			0.002	0.009	
10/25/2018 14:08			0.002	0.007	
10/25/2018 14:09			0.002	0.014	
10/25/2018 14:10	12.9	82	0.002	0.007	
10/25/2018 14:10					42.42846;-76.50145
10/25/2018 14:11			0.002	0.006	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/25/2018 14:12			0.002	0.006	
10/25/2018 14:13			0.002	0.006	
10/25/2018 14:14			0.002	0.006	
10/25/2018 14:15	12.9	81	0.002	0.006	
10/25/2018 14:15					42.42846;-76.5014
10/25/2018 14:16			0.002	0.006	
10/25/2018 14:17			0.002	0.016	
10/25/2018 14:18			0.002	0.007	
10/25/2018 14:19			0.002	0.006	
10/25/2018 14:20	12.9	77.9	0.002	0.006	
10/25/2018 14:20					42.42847;-76.50143
10/25/2018 14:21			0.002	0.006	
10/25/2018 14:22			0.002	0.006	
10/25/2018 14:23			0.002	0.006	
10/25/2018 14:24			0.002	0.006	
10/25/2018 14:25	12.9	84	0.002	0.006	
10/25/2018 14:25					42.42848;-76.50148
10/25/2018 14:26			0.002	0.02	
10/25/2018 14:27			0.003	0.006	
10/25/2018 14:28			0.003	0.012	
10/25/2018 14:29			0.003	0.008	
10/25/2018 14:30	12.9	88.1	0.003	0.006	
10/25/2018 14:30					42.4285;-76.50146
10/25/2018 14:31			0.003	0.007	
10/25/2018 14:32			0.003	0.011	
10/25/2018 14:33			0.003	0.007	
10/25/2018 14:34			0.003	0.006	
10/25/2018 14:35	12.9	89.1	0.003	0.013	
10/25/2018 14:35					42.42853;-76.50144
10/25/2018 14:36			0.003	0.006	
10/25/2018 14:37			0.003	0.006	
10/25/2018 14:38			0.003	0.006	
10/25/2018 14:39			0.003	0.006	
10/25/2018 14:40	12.8	82	0.003	0.006	
10/25/2018 14:40					42.42851;-76.50143
10/25/2018 14:41			0.003	0.006	
10/25/2018 14:42			0.003	0.006	
10/25/2018 14:43			0.003	0.006	
10/25/2018 14:44			0.003	0.006	
10/25/2018 14:45	12.9	76.9	0.003	0.012	
10/25/2018 14:45					42.4285;-76.50144
10/25/2018 14:46			0.003	0.011	
10/25/2018 14:47			0.003	0.007	
10/25/2018 14:48			0.003	0.006	
10/25/2018 14:49			0.003	0.006	
10/25/2018 14:50	12.8	77.9	0.003	0.007	
10/25/2018 14:50					42.42849;-76.50145
10/25/2018 14:51			0.003	0.007	
10/25/2018 14:52			0.003	0.006	
10/25/2018 14:53			0.003	0.019	
10/25/2018 14:54			0.003	0.006	
10/25/2018 14:55	12.8	88.1	0.003	0.006	
10/25/2018 14:55					42.42851;-76.50145
10/25/2018 14:56			0.003	0.012	
10/25/2018 14:57			0.003	0.008	
10/25/2018 14:58			0.003	0.011	
10/25/2018 14:59			0.003	0.041	
10/25/2018 15:00	12.8	82	0.003	0.009	
10/25/2018 15:00					42.42841;-76.50139
10/25/2018 15:01			0.003	0.006	
10/25/2018 15:02			0.003	0.007	
10/25/2018 15:03			0.003	0.008	
10/25/2018 15:04			0.003	0.006	
10/25/2018 15:05	12.8	79	0.003	0.006	
10/25/2018 15:05					42.42855;-76.5014
10/25/2018 15:06			0.003	0.011	
10/25/2018 15:07			0.003	0.007	
10/25/2018 15:08			0.003	0.006	
10/25/2018 15:09			0.003	0.006	
10/25/2018 15:10	12.8	79	0.003	0.006	
10/25/2018 15:10					42.42862;-76.50152
10/25/2018 15:11			0.003	0.01	
10/25/2018 15:12			0.003	0.006	
10/25/2018 15:13			0.003	0.01	
10/25/2018 15:14			0.003	0.009	
10/25/2018 15:15	12.8	97.2	0.003	0.006	
10/25/2018 15:16			0.003	0.005	
10/25/2018 15:16					42.42856;-76.50134
10/25/2018 15:17			0.003	0.006	
10/25/2018 15:18			0.003	0.006	
10/25/2018 15:19			0.003	0.006	
10/25/2018 15:20	12.8	77.9	0.003	0.01	
10/25/2018 15:20					42.4286;-76.50138
10/25/2018 15:21			0.003	0.011	
10/25/2018 15:22			0.003	0.006	
10/25/2018 15:23			0.003	0.005	
10/25/2018 15:24			0.003	0.005	
10/25/2018 15:25	12.8	80	0.003	0.005	
10/25/2018 15:25					42.42838;-76.5014
10/25/2018 15:26			0.004	0.005	
10/25/2018 15:27			0.004	0.006	
10/25/2018 15:28			0.004	0.013	
10/25/2018 15:29			0.004	0.006	
10/25/2018 15:30	12.8	82	0.004	0.007	
10/25/2018 15:30					42.42838;-76.50134
10/25/2018 15:31			0.004	0.006	
10/25/2018 15:32			0.004	0.005	
10/25/2018 15:33			0.004	0.005	
10/25/2018 15:34			0.004	0.005	
10/25/2018 15:35	12.8	79	0.004	0.006	
10/25/2018 15:35					42.4286;-76.50121
10/25/2018 15:36			0.004	0.029	
10/25/2018 15:37			0.004	0.01	
10/25/2018 15:38			0.004	0.006	
10/25/2018 15:39			0.004	0.007	
10/25/2018 15:40	12.8	85	0.004	0.006	
10/25/2018 15:40					42.42838;-76.50156
10/25/2018 15:41			0.004	0.005	
10/25/2018 15:42			0.004	0.006	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/25/2018 15:43			0.004	0.011	
10/25/2018 15:44			0.004	0.01	
10/25/2018 15:45	12.8	81	0.004	0.008	
10/25/2018 15:45					42.4276;-76.50182
10/25/2018 15:46			0.004	0.007	
10/25/2018 15:47			0.004	0.006	
10/25/2018 15:48			0.004	0.012	
10/25/2018 15:49			0.004	0.006	
10/25/2018 15:50	12.8	89.1	0.004	0.018	
10/25/2018 15:50					42.42817;-76.50147
10/25/2018 15:51			0.004	0.006	
10/25/2018 15:52			0.004	0.006	
10/25/2018 15:53			0.004	0.006	
10/25/2018 15:54			0.004	0.006	
10/25/2018 15:55	12.8	93.1	0.004	0.006	
10/25/2018 15:55					42.42854;-76.50133
10/25/2018 15:56			0.004	0.007	
10/25/2018 15:57			0.004	0.009	
10/25/2018 15:58			0.004	0.013	
10/25/2018 15:59			0.004	0.015	
10/25/2018 16:00	12.8	85	0.004	0.009	
10/25/2018 16:00					42.42817;-76.50152
10/25/2018 16:01			0.004	0.027	
10/25/2018 16:02			0.004	0.006	
10/25/2018 16:03			0.004	0.016	
10/25/2018 16:04			0.004	0.007	
10/25/2018 16:05	12.8	77.9	0.004	0.006	
10/25/2018 16:05					42.42812;-76.50143
10/25/2018 16:06			0.004	0.006	
10/25/2018 16:07			0.004	0.006	
10/25/2018 16:08			0.004	0.005	
10/25/2018 16:09			0.004	0.005	
10/25/2018 16:10	12.8	79	0.004	0.006	
10/25/2018 16:10					42.42813;-76.5014
10/25/2018 16:11			0.004	0.011	
10/25/2018 16:12			0.004	0.006	
10/25/2018 16:13			0.004	0.005	
10/25/2018 16:14			0.004	0.005	
10/25/2018 16:15	12.8	85	0.004	0.015	
10/25/2018 16:15					42.4278;-76.50091
10/25/2018 16:16			0.004	0.006	
10/25/2018 16:17			0.004	0.005	
10/25/2018 16:18			0.004	0.006	
10/25/2018 16:19			0.004	0.005	
10/25/2018 16:20	12.8	79	0.004	0.005	
10/25/2018 16:20					42.42807;-76.50131
10/25/2018 16:21			0.004	0.005	
10/25/2018 16:22			0.004	0.006	
10/25/2018 16:23			0.004	0.005	
10/25/2018 16:24			0.004	0.005	
10/25/2018 16:25	12.8	83	0.004	0.005	42.42831;-76.50139
10/25/2018 16:26			0.005	0.005	
10/25/2018 16:27			0.005	0.005	
10/25/2018 16:28			0.005	0.005	
10/25/2018 16:29			0.005	0.005	
10/25/2018 16:30	12.8	79	0.005	0.005	42.4284;-76.50146
10/25/2018 16:31			0.005	0.005	
10/25/2018 16:32			0.005	0.005	
10/25/2018 16:33			0.005	0.006	
10/25/2018 16:34			0.005	0.007	
10/25/2018 16:35	12.8	91.1	0.005	0.007	42.42841;-76.50141
10/25/2018 16:36			0.005	0.006	
10/25/2018 16:37			0.005	0.005	
10/25/2018 16:38			0.005	0.006	
10/25/2018 16:39			0.005	0.006	
10/25/2018 16:40	12.8	89.1	0.005	0.006	42.42859;-76.50143
10/25/2018 16:41			0.005	0.006	
10/25/2018 16:42			0.005	0.006	
10/25/2018 16:43			0.005	0.005	
10/25/2018 16:44			0.005	0.005	
10/25/2018 16:45	12.8	99.2	0.005	0.005	42.42846;-76.50144
10/25/2018 16:46			0.005	0.008	
10/25/2018 16:47			0.005	0.012	
10/25/2018 16:48			0.005	0.016	
10/25/2018 16:49			0.005	0.007	
10/25/2018 16:50	12.8	79	0.005	0.007	42.42847;-76.50143
10/25/2018 16:51			0.005	0.005	
10/25/2018 16:52			0.005	0.006	
10/25/2018 16:53			0.005	0.006	
10/25/2018 16:54			0.005	0.007	
10/25/2018 16:55	12.8	87	0.005	0.006	42.42843;-76.50143
10/25/2018 16:56			0.005	0.016	
10/25/2018 16:57			0.005	0.006	
10/25/2018 16:58			0.005	0.006	
10/25/2018 16:59			0.005	0.006	
10/25/2018 17:00	12.7	90.1	0.005	0.023	42.42848;-76.50144
10/25/2018 17:01			0.005	0.041	
10/25/2018 17:02			0.005	0.005	
10/25/2018 17:03			0.005	0.009	
10/25/2018 17:04			0.005	0.005	
10/25/2018 17:05	12.7	79	0.005	0.005	42.42844;-76.50137
10/25/2018 17:06			0.005	0.005	
10/25/2018 17:07			0.005	0.005	
10/25/2018 17:08			0.005	0.005	
10/25/2018 17:09			0.005	0.009	
10/25/2018 17:10	12.7	81	0.005	0.021	42.42851;-76.50153
10/25/2018 17:11			0.005	0.008	
10/25/2018 17:12			0.005	0.006	
10/25/2018 17:13			0.005	0.007	
10/25/2018 17:14			0.005	0.005	
10/25/2018 17:15	12.7	80	0.005	0.005	42.4284;-76.5013
10/25/2018 17:16			0.005	0.006	
10/25/2018 17:17			0.005	0.01	
10/25/2018 17:18			0.005	0.006	
10/25/2018 17:19			0.005	0.009	
10/25/2018 17:20	12.7	85	0.005	0.006	42.42853;-76.50132
10/25/2018 17:21			0.005	0.006	
10/25/2018 17:22			0.005	0.006	
10/25/2018 17:23			0.005	0.045	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/25/2018 17:24			0.006	0.008	
10/25/2018 17:25	12.7	84	0.006	0.006	42.4285;-76.50139
10/25/2018 17:26			0.006	0.007	
10/25/2018 17:27			0.006	0.006	
10/25/2018 17:28			0.006	0.006	
10/25/2018 17:29			0.006	0.009	
10/25/2018 17:30	12.7	82	0.006	0.034	42.4285;-76.50141
10/25/2018 17:31			0.006	0.007	
10/25/2018 17:32			0.006	0.005	
10/25/2018 17:33			0.006	0.005	
10/25/2018 17:34			0.006	0.006	
10/25/2018 17:35	12.7	83	0.006	0.008	42.42846;-76.50136
10/25/2018 17:36			0.006	0.007	
10/25/2018 17:37			0.006	0.006	
10/25/2018 17:38			0.006	0.006	
10/25/2018 17:39			0.006	0.006	
10/25/2018 17:40	12.7	77.9	0.006	0.005	42.42849;-76.50117
10/25/2018 17:41			0.006	0.005	
10/25/2018 17:42			0.006	0.005	
10/25/2018 17:43			0.006	0.007	
10/25/2018 17:44			0.006	0.005	
10/25/2018 17:45	12.7	90.1	0.006	0.006	42.42844;-76.50127
10/25/2018 17:46			0.006	0.006	
10/25/2018 17:47			0.006	0.008	
10/25/2018 17:48			0.006	0.005	
10/25/2018 17:49			0.006	0.014	
10/25/2018 17:50	12.7	82	0.006	0.006	42.42847;-76.50134
10/25/2018 17:51			0.006	0.005	
10/25/2018 17:52			0.006	0.005	
10/25/2018 17:53			0.006	0.005	
10/25/2018 17:54			0.006	0.005	
10/25/2018 17:55	12.7	85	0.006	0.028	42.42841;-76.5015
10/25/2018 17:56			0.006	0.009	
10/25/2018 17:57			0.006	0.005	
10/25/2018 17:58			0.006	0.005	
10/25/2018 17:59			0.006	0.005	
10/25/2018 18:00	12.7	85	0.006	0.006	42.42848;-76.50139
10/25/2018 18:01			0.006	0.006	
10/25/2018 18:02			0.006	0.013	
10/25/2018 18:03			0.006	0.007	
10/25/2018 18:04			0.006	0.009	
10/25/2018 18:05	12.7	79	0.006	0.006	42.42845;-76.5013
10/25/2018 18:06			0.006	0.007	
10/25/2018 18:07			0.006	0.007	
10/25/2018 18:08			0.006	0.007	
10/25/2018 18:09			0.006	0.007	
10/25/2018 18:10	12.7	79	0.006	0.015	42.4285;-76.5014
10/25/2018 18:11			0.006	0.007	
10/25/2018 18:12			0.006	0.007	
10/25/2018 18:13			0.006	0.007	
10/25/2018 18:14			0.006	0.007	
10/25/2018 18:15	12.7	79	0.006	0.007	42.42844;-76.5014
10/25/2018 18:16			0.006	0.007	
10/25/2018 18:17			0.006	0.018	
10/25/2018 18:18			0.006	0.012	
10/25/2018 18:19			0.006	0.024	
10/25/2018 18:20	12.7	80	0.006	0.008	42.42845;-76.50138
10/25/2018 18:21			0.007	0.008	
10/25/2018 18:22			0.007	0.007	
10/25/2018 18:23			0.007	0.007	
10/25/2018 18:24			0.007	0.007	
10/25/2018 18:25	12.7	80	0.007	0.007	42.42857;-76.50139
10/25/2018 18:26			0.007	0.009	
10/25/2018 18:27			0.007	0.014	
10/25/2018 18:28			0.007	0.008	
10/25/2018 18:29			0.007	0.007	
10/25/2018 18:30	12.6	94.1	0.007	0.007	42.42856;-76.5014
10/25/2018 18:31			0.007	0.007	
10/25/2018 18:32			0.007	0.015	
10/25/2018 18:33			0.007	0.017	
10/25/2018 18:34			0.007	0.008	
10/25/2018 18:35	12.6	90.1	0.007	0.008	42.42856;-76.50141
10/25/2018 18:36			0.007	0.008	
10/25/2018 18:37			0.007	0.008	
10/25/2018 18:38			0.007	0.008	
10/25/2018 18:39			0.007	0.01	
10/25/2018 18:40	12.6	79	0.007	0.008	42.42866;-76.5014
10/25/2018 18:41			0.007	0.009	
10/25/2018 18:42			0.007	0.011	
10/25/2018 18:43			0.007	0.008	
10/25/2018 18:44			0.007	0.008	
10/25/2018 18:45	12.6	81	0.007	0.008	42.42805;-76.50132
10/25/2018 18:46			0.007	0.008	
10/25/2018 18:47			0.007	0.013	
10/25/2018 18:48			0.007	0.01	
10/25/2018 18:49			0.007	0.009	
10/25/2018 18:50	12.6	85	0.007	0.009	42.42839;-76.50135
10/25/2018 18:51			0.007	0.009	
10/25/2018 18:52			0.007	0.009	
10/25/2018 18:53			0.007	0.009	
10/25/2018 18:54			0.007	0.009	
10/25/2018 18:55	12.6	77.9	0.007	0.009	42.42863;-76.50137
10/25/2018 18:56			0.007	0.011	
10/25/2018 18:57			0.007	0.032	
10/25/2018 18:58			0.007	0.011	
10/25/2018 18:59			0.007	0.009	
10/25/2018 19:00	12.6	85	0.007	0.008	42.42829;-76.50137
10/25/2018 19:01			0.007	0.011	
10/25/2018 19:02			0.007	0.008	
10/25/2018 19:03			0.007	0.008	
10/25/2018 19:04			0.007	0.007	
10/25/2018 19:05	12.6	79	0.007	0.007	42.4285;-76.50145
10/25/2018 19:06			0.007	0.007	
10/25/2018 19:07			0.007	0.007	
10/25/2018 19:08			0.007	0.008	
10/25/2018 19:09			0.007	0.008	
10/25/2018 19:10	12.6	86	0.007	0.009	42.42838;-76.5015
10/25/2018 19:11			0.007	0.008	
10/25/2018 19:12			0.007	0.008	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/25/2018 19:13			0.007	0.007	
10/25/2018 19:14			0.008	0.009	
10/25/2018 19:15	12.6	94.1	0.008	0.008	42.42847;-76.50132
10/25/2018 19:16			0.008	0.007	
10/25/2018 19:17			0.008	0.007	
10/25/2018 19:18			0.008	0.007	
10/25/2018 19:19			0.008	0.009	
10/25/2018 19:20	12.6	120.5	0.008	0.007	42.42834;-76.5013
10/25/2018 19:21			0.008	0.007	
10/25/2018 19:22			0.008	0.007	
10/25/2018 19:23			0.008	0.007	
10/25/2018 19:24			0.008	0.007	
10/25/2018 19:25	12.6	87	0.008	0.007	42.42846;-76.50133
10/25/2018 19:26			0.008	0.007	
10/25/2018 19:27			0.008	0.007	
10/25/2018 19:28			0.008	0.007	
10/25/2018 19:29			0.008	0.007	
10/25/2018 19:30	12.6	86	0.008	0.006	42.42844;-76.50134
10/25/2018 19:31			0.008	0.006	
10/25/2018 19:32			0.008	0.006	
10/25/2018 19:33			0.008	0.006	
10/25/2018 19:34			0.008	0.007	
10/25/2018 19:35	12.6	85	0.008	0.007	42.42884;-76.50122
10/25/2018 19:36			0.008	0.007	
10/25/2018 19:37			0.008	0.007	
10/25/2018 19:38			0.008	0.006	
10/25/2018 19:39			0.008	0.008	
10/25/2018 19:40	12.6	85	0.008	0.008	42.4285;-76.50135
10/25/2018 19:41			0.008	0.006	
10/25/2018 19:42			0.008	0.006	
10/25/2018 19:43			0.008	0.006	
10/25/2018 19:44			0.008	0.007	
10/25/2018 19:45	12.5	84	0.008	0.006	42.42847;-76.5014
10/25/2018 19:46			0.008	0.006	
10/25/2018 19:47			0.008	0.006	
10/25/2018 19:48			0.008	0.006	
10/25/2018 19:49			0.008	0.007	
10/25/2018 19:50	12.6	99.2	0.008	0.007	42.42849;-76.50137
10/25/2018 19:51			0.008	0.02	
10/25/2018 19:52			0.008	0.006	
10/25/2018 19:53			0.008	0.006	
10/25/2018 19:54			0.008	0.006	
10/25/2018 19:55	12.6	79	0.008	0.006	42.42846;-76.50137
10/25/2018 19:56			0.008	0.006	
10/25/2018 19:57			0.008	0.006	
10/25/2018 19:58			0.008	0.006	
10/25/2018 19:59			0.008	0.008	
10/25/2018 20:00	12.5	91.1	0.008	0.008	42.42849;-76.50138
10/25/2018 20:01			0.008	0.006	
10/25/2018 20:02			0.008	0.006	
10/25/2018 20:03			0.008	0.006	
10/25/2018 20:04			0.008	0.007	
10/25/2018 20:05	12.5	84	0.008	0.006	42.42844;-76.50138
10/25/2018 20:06			0.008	0.007	
10/25/2018 20:07			0.008	0.006	
10/25/2018 20:08			0.008	0.006	
10/25/2018 20:09			0.008	0.007	
10/25/2018 20:10	12.5	85	0.008	0.006	42.42853;-76.50136
10/25/2018 20:11			0.008	0.006	
10/25/2018 20:12			0.008	0.006	
10/25/2018 20:13			0.008	0.009	
10/25/2018 20:14			0.008	0.006	
10/25/2018 20:15	12.5	85	0.008	0.006	42.42844;-76.50135
10/25/2018 20:16			0.008	0.005	
10/25/2018 20:17			0.008	0.006	
10/25/2018 20:18			0.008	0.007	
10/25/2018 20:19			0.008	0.007	
10/25/2018 20:20	12.5	80	0.008	0.006	42.42845;-76.50136
10/25/2018 20:21			0.008	0.007	
10/25/2018 20:22			0.008	0.006	
10/25/2018 20:23			0.008	0.005	
10/25/2018 20:24			0.008	0.008	
10/25/2018 20:25	12.5	96.2	0.008	0.006	42.42845;-76.50138
10/25/2018 20:26			0.008	0.006	
10/25/2018 20:27			0.008	0.005	
10/25/2018 20:28			0.008	0.005	
10/25/2018 20:29			0.008	0.006	
10/25/2018 20:30	12.5	90.1	0.008	0.006	42.42846;-76.50136
10/25/2018 20:31			0.008	0.006	
10/25/2018 20:32			0.008	0.006	
10/25/2018 20:33			0.008	0.007	
10/25/2018 20:34			0.008	0.008	
10/25/2018 20:35	12.5	80	0.008	0.008	42.42843;-76.50135
10/25/2018 20:36			0.008	0.007	
10/25/2018 20:37			0.008	0.007	
10/25/2018 20:38			0.008	0.007	
10/25/2018 20:39			0.008	0.007	
10/25/2018 20:40	12.5	82	0.008	0.007	42.42845;-76.50139
10/25/2018 20:41			0.008	0.006	
10/25/2018 20:42			0.008	0.006	
10/25/2018 20:43			0.008	0.006	
10/25/2018 20:44			0.008	0.006	
10/25/2018 20:45	12.4	86	0.008	0.006	42.42848;-76.50136
10/25/2018 20:46			0.008	0.006	
10/25/2018 20:47			0.008	0.006	
10/25/2018 20:48			0.008	0.006	
10/25/2018 20:49			0.008	0.005	
10/25/2018 20:50	12.4	92.1	0.008	0.005	42.4285;-76.50138
10/25/2018 20:51			0.008	0.006	
10/25/2018 20:52			0.008	0.005	
10/25/2018 20:53			0.008	0.005	
10/25/2018 20:54			0.008	0.005	
10/25/2018 20:55	12.4	86	0.008	0.005	42.42846;-76.50139
10/25/2018 20:56			0.008	0.006	
10/25/2018 20:57			0.008	0.006	
10/25/2018 20:58			0.008	0.007	
10/25/2018 20:59			0.008	0.006	
10/26/2018 12:17	13.2	96.2			
10/26/2018 12:17					42.4289396;-76.5086214

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/26/2018 12:19			0		
10/26/2018 12:20	13	76.9	0	0.012	
10/26/2018 12:20					42.42855;-76.5015
10/26/2018 12:21			0	0.012	
10/26/2018 12:22			0	0.012	
10/26/2018 12:23			0	0.012	
10/26/2018 12:24			0	0.013	
10/26/2018 12:25	13	85	0	0.012	
10/26/2018 12:25					42.42838;-76.50151
10/26/2018 12:26			0	0.013	
10/26/2018 12:27			0	0.013	
10/26/2018 12:28			0	0.013	
10/26/2018 12:29			0	0.016	
10/26/2018 12:30	13	82	0	0.015	
10/26/2018 12:30					42.42848;-76.50153
10/26/2018 12:31			0	0.013	
10/26/2018 12:32			0	0.013	
10/26/2018 12:33			0	0.014	
10/26/2018 12:34			0	0.014	
10/26/2018 12:35	13	76.9	0	0.014	
10/26/2018 12:35					42.42854;-76.50155
10/26/2018 12:36			0	0.018	
10/26/2018 12:37			0.001	0.014	
10/26/2018 12:38			0.001	0.014	
10/26/2018 12:39			0.001	0.016	
10/26/2018 12:40	13	86	0.001	0.015	
10/26/2018 12:40					42.42857;-76.50152
10/26/2018 12:41			0.001	0.015	
10/26/2018 12:42			0.001	0.015	
10/26/2018 12:43			0.001	0.016	
10/26/2018 12:44			0.001	0.016	
10/26/2018 12:45	12.9	75.9	0.001	0.017	
10/26/2018 12:45					42.42859;-76.5015
10/26/2018 12:46			0.001	0.016	
10/26/2018 12:47			0.001	0.017	
10/26/2018 12:48			0.001	0.02	
10/26/2018 12:49			0.001	0.016	
10/26/2018 12:50	13	75.9	0.001	0.016	
10/26/2018 12:50					42.42878;-76.50134
10/26/2018 12:51			0.001	0.016	
10/26/2018 12:52			0.001	0.016	
10/26/2018 12:53			0.001	0.015	
10/26/2018 12:54			0.001	0.016	
10/26/2018 12:55	13	75.9	0.001	0.019	
10/26/2018 12:55					42.42872;-76.50146
10/26/2018 12:56			0.001	0.014	
10/26/2018 12:57			0.001	0.015	
10/26/2018 12:58			0.001	0.014	
10/26/2018 12:59			0.001	0.015	
10/26/2018 13:00	13	75.9	0.001	0.014	
10/26/2018 13:00					42.42855;-76.50156
10/26/2018 13:01			0.001	0.014	
10/26/2018 13:02			0.001	0.019	
10/26/2018 13:03			0.001	0.015	
10/26/2018 13:04			0.001	0.014	
10/26/2018 13:05	13	87	0.001	0.014	
10/26/2018 13:05					42.42854;-76.50155
10/26/2018 13:06			0.001	0.014	
10/26/2018 13:07			0.001	0.013	
10/26/2018 13:08			0.002	0.013	
10/26/2018 13:09			0.002	0.015	
10/26/2018 13:10	13	82	0.002	0.014	
10/26/2018 13:10					42.42863;-76.50157
10/26/2018 13:11			0.002	0.017	
10/26/2018 13:12			0.002	0.025	
10/26/2018 13:13			0.002	0.015	
10/26/2018 13:14			0.002	0.014	
10/26/2018 13:15	12.9	84	0.002	0.014	
10/26/2018 13:15					42.42857;-76.50161
10/26/2018 13:16			0.002	0.018	
10/26/2018 13:17			0.002	0.014	
10/26/2018 13:18			0.002	0.014	
10/26/2018 13:19			0.002	0.015	
10/26/2018 13:20	13	76.9	0.002	0.016	
10/26/2018 13:20					42.42861;-76.50157
10/26/2018 13:21			0.002	0.02	
10/26/2018 13:22			0.002	0.035	
10/26/2018 13:23			0.002	0.018	
10/26/2018 13:24			0.002	0.018	
10/26/2018 13:25	13	77.9	0.002	0.017	
10/26/2018 13:25					42.42854;-76.50156
10/26/2018 13:26			0.002	0.017	
10/26/2018 13:27			0.002	0.017	
10/26/2018 13:28			0.002	0.017	
10/26/2018 13:29			0.002	0.016	
10/26/2018 13:30	12.9	75.9	0.002	0.015	
10/26/2018 13:30					42.42859;-76.50161
10/26/2018 13:31			0.002	0.015	
10/26/2018 13:32			0.002	0.016	
10/26/2018 13:33			0.002	0.016	
10/26/2018 13:34			0.002	0.015	
10/26/2018 13:35	12.9	79	0.002	0.015	
10/26/2018 13:35					42.42857;-76.50159
10/26/2018 13:36			0.002	0.014	
10/26/2018 13:37			0.003	0.014	
10/26/2018 13:38			0.003	0.014	
10/26/2018 13:39			0.003	0.015	
10/26/2018 13:40	12.9	79	0.003	0.014	
10/26/2018 13:40					42.42853;-76.50156
10/26/2018 13:41			0.003	0.015	
10/26/2018 13:42			0.003	0.014	
10/26/2018 13:43			0.003	0.014	
10/26/2018 13:44			0.003	0.014	
10/26/2018 13:45	12.9	76.9	0.003	0.015	
10/26/2018 13:45					42.42853;-76.50161
10/26/2018 13:46			0.003	0.014	
10/26/2018 13:47			0.003	0.015	
10/26/2018 13:48			0.003	0.014	
10/26/2018 13:49			0.003	0.014	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/26/2018 13:50	12.9	80	0.003	0.014	
10/26/2018 13:50					42.42856;-76.50159
10/26/2018 13:51			0.003	0.011	
10/26/2018 13:52			0.003	0.012	
10/26/2018 13:53			0.003	0.011	
10/26/2018 13:54			0.003	0.01	
10/26/2018 13:55	12.9	81	0.003	0.01	
10/26/2018 13:55					42.42859;-76.50159
10/26/2018 13:56			0.003	0.01	
10/26/2018 13:57			0.003	0.01	
10/26/2018 13:58			0.003	0.011	
10/26/2018 13:59			0.003	0.015	
10/26/2018 14:00	12.9	88.1	0.003	0.013	
10/26/2018 14:00					42.42859;-76.50156
10/26/2018 14:01			0.003	0.013	
10/26/2018 14:02			0.003	0.011	
10/26/2018 14:03			0.003	0.015	
10/26/2018 14:04			0.003	0.01	
10/26/2018 14:05	12.9	87	0.003	0.011	
10/26/2018 14:05					42.42861;-76.50156
10/26/2018 14:06			0.003	0.01	
10/26/2018 14:07			0.003	0.009	
10/26/2018 14:08			0.003	0.009	
10/26/2018 14:09			0.003	0.009	
10/26/2018 14:10	12.9	76.9	0.003	0.01	
10/26/2018 14:10					42.42861;-76.50159
10/26/2018 14:11			0.003	0.009	
10/26/2018 14:12			0.003	0.009	
10/26/2018 14:13			0.003	0.009	
10/26/2018 14:14			0.003	0.011	
10/26/2018 14:15	12.9	82	0.003	0.013	
10/26/2018 14:15					42.4286;-76.50158
10/26/2018 14:16			0.003	0.01	
10/26/2018 14:17			0.004	0.009	
10/26/2018 14:18			0.004	0.009	
10/26/2018 14:19			0.004	0.009	
10/26/2018 14:20	12.9	79	0.004	0.012	
10/26/2018 14:20					42.42865;-76.50156
10/26/2018 14:21			0.004	0.01	
10/26/2018 14:22			0.004	0.011	
10/26/2018 14:23			0.004	0.013	
10/26/2018 14:24			0.004	0.009	
10/26/2018 14:25	12.9	88.1	0.004	0.009	
10/26/2018 14:25					42.42865;-76.5015
10/26/2018 14:26			0.004	0.009	
10/26/2018 14:27			0.004	0.009	
10/26/2018 14:28			0.004	0.02	
10/26/2018 14:29			0.004	0.018	
10/26/2018 14:30	12.9	81	0.004	0.012	
10/26/2018 14:30					42.42862;-76.50159
10/26/2018 14:31			0.004	0.01	
10/26/2018 14:32			0.004	0.009	
10/26/2018 14:33			0.004	0.009	
10/26/2018 14:34			0.004	0.009	
10/26/2018 14:35	12.9	83	0.004	0.009	
10/26/2018 14:35					42.42858;-76.50157
10/26/2018 14:36			0.004	0.008	
10/26/2018 14:37			0.004	0.008	
10/26/2018 14:38			0.004	0.008	
10/26/2018 14:39			0.004	0.008	
10/26/2018 14:40	12.9	82	0.004	0.008	
10/26/2018 14:40					42.42858;-76.50158
10/26/2018 14:41			0.004	0.008	
10/26/2018 14:42			0.004	0.008	
10/26/2018 14:43			0.004	0.008	
10/26/2018 14:44			0.004	0.008	
10/26/2018 14:45	12.9	77.9	0.004	0.008	
10/26/2018 14:45					42.4286;-76.50156
10/26/2018 14:46			0.004	0.008	
10/26/2018 14:47			0.004	0.016	
10/26/2018 14:48			0.004	0.012	
10/26/2018 14:49			0.004	0.009	
10/26/2018 14:50	12.9	93.1	0.004	0.008	
10/26/2018 14:50					42.42864;-76.50152
10/26/2018 14:51			0.004	0.008	
10/26/2018 14:52			0.004	0.008	
10/26/2018 14:53			0.004	0.066	
10/26/2018 14:54			0.004	0.018	
10/26/2018 14:55	12.9	88.1	0.004	0.009	
10/26/2018 14:55					42.42866;-76.50153
10/26/2018 14:56			0.004	0.009	
10/26/2018 14:57			0.004	0.008	
10/26/2018 14:58			0.004	0.008	
10/26/2018 14:59			0.005	0.008	
10/26/2018 15:00	12.9	77.9	0.005	0.008	
10/26/2018 15:00					42.429;-76.50204
10/26/2018 15:01			0.005	0.008	
10/26/2018 15:02			0.005	0.023	
10/26/2018 15:03			0.005	0.008	
10/26/2018 15:04			0.005	0.009	
10/26/2018 15:05	12.9	83	0.005	0.008	
10/26/2018 15:05					42.42859;-76.50169
10/26/2018 15:06			0.005	0.008	
10/26/2018 15:07			0.005	0.008	
10/26/2018 15:08			0.005	0.008	
10/26/2018 15:09			0.005	0.008	
10/26/2018 15:10	12.9	77.9	0.005	0.008	
10/26/2018 15:10					42.4286;-76.50145
10/26/2018 15:11			0.005	0.008	
10/26/2018 15:12			0.005	0.008	
10/26/2018 15:13			0.005	0.007	
10/26/2018 15:14			0.005	0.008	
10/26/2018 15:15	12.9	92.1	0.005	0.007	
10/26/2018 15:15					42.42869;-76.50151
10/26/2018 15:16			0.005	0.007	
10/26/2018 15:17			0.005	0.007	
10/26/2018 15:18			0.005	0.007	
10/26/2018 15:19			0.005	0.007	
10/26/2018 15:20	12.9	91.1	0.005	0.007	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/26/2018 15:20					42.42843;-76.5016
10/26/2018 15:21			0.005	0.008	
10/26/2018 15:22			0.005	0.008	
10/26/2018 15:23			0.005	0.007	
10/26/2018 15:24			0.005	0.007	
10/26/2018 15:25	12.9	75.9	0.005	0.007	
10/26/2018 15:25					42.42878;-76.50137
10/26/2018 15:26			0.005	0.008	
10/26/2018 15:27			0.005	0.008	
10/26/2018 15:28			0.005	0.012	
10/26/2018 15:29			0.005	0.008	
10/26/2018 15:30	12.9	79	0.005	0.011	
10/26/2018 15:30					42.42864;-76.50167
10/26/2018 15:31			0.005	0.012	
10/26/2018 15:32			0.005	0.037	
10/26/2018 15:33			0.005	0.015	
10/26/2018 15:34			0.005	0.011	
10/26/2018 15:35	12.9	84	0.005	0.008	
10/26/2018 15:35					42.42889;-76.50141
10/26/2018 15:36			0.005	0.008	
10/26/2018 15:37			0.005	0.008	
10/26/2018 15:38			0.005	0.013	
10/26/2018 15:39			0.005	0.011	
10/26/2018 15:40	12.9	89.1	0.005	0.011	
10/26/2018 15:40					42.42868;-76.50136
10/26/2018 15:41			0.005	0.007	
10/26/2018 15:42			0.005	0.008	
10/26/2018 15:43			0.005	0.009	
10/26/2018 15:44			0.005	0.007	
10/26/2018 15:45	12.9	85	0.005	0.007	
10/26/2018 15:45					42.42861;-76.50134
10/26/2018 15:46			0.005	0.007	
10/26/2018 15:47			0.005	0.007	
10/26/2018 15:48			0.005	0.007	
10/26/2018 15:49			0.005	0.012	
10/26/2018 15:50	12.8	86	0.006	0.018	
10/26/2018 15:50					42.42848;-76.50148
10/26/2018 15:51			0.006	0.009	
10/26/2018 15:52			0.006	0.007	
10/26/2018 15:53			0.006	0.008	
10/26/2018 15:54			0.006	0.009	
10/26/2018 15:55	12.8	88.1	0.006	0.007	
10/26/2018 15:56			0.006	0.016	
10/26/2018 15:57			0.006	0.013	
10/26/2018 15:58			0.006	0.008	
10/26/2018 15:59			0.006	0.007	
10/26/2018 16:00	12.8	76.9	0.006	0.007	
10/26/2018 16:00					42.43084;-76.49971
10/26/2018 16:01			0.006	0.007	
10/26/2018 16:02			0.006	0.007	
10/26/2018 16:03			0.006	0.007	
10/26/2018 16:04			0.006	0.007	
10/26/2018 16:05	12.8	76.9	0.006	0.007	42.43035;-76.49977
10/26/2018 16:06			0.006	0.007	
10/26/2018 16:07			0.006	0.007	
10/26/2018 16:08			0.006	0.007	
10/26/2018 16:09			0.006	0.007	
10/26/2018 16:10	12.8	77.9	0.006	0.007	42.43046;-76.49992
10/26/2018 16:11			0.006	0.007	
10/26/2018 16:12			0.006	0.007	
10/26/2018 16:13			0.006	0.007	
10/26/2018 16:14			0.006	0.007	
10/26/2018 16:15	12.8	77.9	0.006	0.007	42.43071;-76.50011
10/26/2018 16:16			0.006	0.007	
10/26/2018 16:17			0.006	0.007	
10/26/2018 16:18			0.006	0.007	
10/26/2018 16:19			0.006	0.007	
10/26/2018 16:20	12.8	84	0.006	0.007	42.43069;-76.50107
10/26/2018 16:21			0.006	0.007	
10/26/2018 16:22			0.006	0.007	
10/26/2018 16:23			0.006	0.007	
10/26/2018 16:24			0.006	0.007	
10/26/2018 16:25	12.8	77.9	0.006	0.007	42.43102;-76.49977
10/26/2018 16:26			0.006	0.007	
10/26/2018 16:27			0.006	0.007	
10/26/2018 16:28			0.006	0.007	
10/26/2018 16:29			0.006	0.007	
10/26/2018 16:30	12.8	77.9	0.006	0.007	42.43105;-76.49976
10/26/2018 16:31			0.006	0.007	
10/26/2018 16:32			0.006	0.007	
10/26/2018 16:33			0.006	0.007	
10/26/2018 16:34			0.006	0.007	
10/26/2018 16:35	12.8	84	0.006	0.007	42.4311;-76.49974
10/26/2018 16:36			0.006	0.007	
10/26/2018 16:37			0.006	0.007	
10/26/2018 16:38			0.006	0.007	
10/26/2018 16:39			0.006	0.007	
10/26/2018 16:40	12.8	77.9	0.006	0.007	42.4311;-76.4997
10/26/2018 16:41			0.006	0.007	
10/26/2018 16:42			0.006	0.007	
10/26/2018 16:43			0.006	0.007	
10/26/2018 16:44			0.006	0.007	
10/26/2018 16:45	12.8	91.1	0.006	0.007	42.43107;-76.49976
10/26/2018 16:46			0.006	0.007	
10/26/2018 16:47			0.006	0.007	
10/26/2018 16:48			0.006	0.007	
10/26/2018 16:49			0.006	0.006	
10/26/2018 16:50	12.8	81	0.006	0.007	42.43112;-76.49979
10/26/2018 16:51			0.006	0.007	
10/26/2018 16:52			0.006	0.006	
10/26/2018 16:53			0.006	0.007	
10/26/2018 16:54			0.006	0.007	
10/26/2018 16:55	12.8	92.1	0.006	0.006	42.43139;-76.50027
10/26/2018 16:56			0.007	0.007	
10/26/2018 16:57			0.007	0.006	
10/26/2018 16:58			0.007	0.006	
10/26/2018 16:59			0.007	0.006	
10/26/2018 17:00	12.8	79	0.007	0.006	42.43113;-76.49988
10/26/2018 17:01			0.007	0.006	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/26/2018 17:02			0.007	0.006	
10/26/2018 17:03			0.007	0.006	
10/26/2018 17:04			0.007	0.006	
10/26/2018 17:05	12.8	80	0.007	0.006	42.43113;-76.4997
10/26/2018 17:06			0.007	0.006	
10/26/2018 17:07			0.007	0.006	
10/26/2018 17:08			0.007	0.006	
10/26/2018 17:09			0.007	0.007	
10/26/2018 17:10	12.8	87	0.007	0.007	42.431;-76.49966
10/26/2018 17:11			0.007	0.007	
10/26/2018 17:12			0.007	0.009	
10/26/2018 17:13			0.007	0.01	
10/26/2018 17:14			0.007	0.007	
10/26/2018 17:15	12.8	77.9	0.007	0.007	42.43111;-76.49976
10/26/2018 17:16			0.007	0.007	
10/26/2018 17:17			0.007	0.007	
10/26/2018 17:18			0.007	0.007	
10/26/2018 17:19			0.007	0.007	
10/26/2018 17:20	12.8	84	0.007	0.007	42.43114;-76.49982
10/26/2018 17:21			0.007	0.006	
10/26/2018 17:22			0.007	0.007	
10/26/2018 17:23			0.007	0.007	
10/26/2018 17:24			0.007	0.007	
10/26/2018 17:25	12.8	87	0.007	0.007	42.43104;-76.49969
10/26/2018 17:26			0.007	0.007	
10/26/2018 17:27			0.007	0.007	
10/26/2018 17:28			0.007	0.007	
10/26/2018 17:29			0.007	0.007	
10/26/2018 17:30	12.8	102.2	0.007	0.007	42.43114;-76.49975
10/26/2018 17:31			0.007	0.007	
10/26/2018 17:32			0.007	0.007	
10/26/2018 17:33			0.007	0.007	
10/26/2018 17:34			0.007	0.007	
10/26/2018 17:35	12.8	80	0.007	0.007	42.43109;-76.49971
10/26/2018 17:36			0.007	0.007	
10/26/2018 17:37			0.007	0.007	
10/26/2018 17:38			0.007	0.009	
10/26/2018 17:39			0.007	0.008	
10/26/2018 17:40	12.8	79	0.007	0.007	42.43111;-76.4997
10/26/2018 17:41			0.007	0.007	
10/26/2018 17:42			0.007	0.007	
10/26/2018 17:43			0.007	0.007	
10/26/2018 17:44			0.007	0.007	
10/26/2018 17:45	12.8	80	0.007	0.009	42.43111;-76.4995
10/26/2018 17:46			0.007	0.01	
10/26/2018 17:47			0.007	0.007	
10/26/2018 17:48			0.007	0.006	
10/26/2018 17:49			0.007	0.006	
10/26/2018 17:50	12.7	77.9	0.007	0.006	42.43102;-76.49962
10/26/2018 17:51			0.007	0.007	
10/26/2018 17:52			0.007	0.007	
10/26/2018 17:53			0.007	0.007	
10/26/2018 17:54			0.007	0.007	
10/26/2018 17:55	12.8	77.9	0.007	0.007	42.43096;-76.49957
10/26/2018 17:56			0.007	0.007	
10/26/2018 17:57			0.007	0.015	
10/26/2018 17:58			0.007	0.008	
10/26/2018 17:59			0.007	0.008	
10/26/2018 18:00	12.7	81	0.007	0.008	42.43106;-76.49967
10/26/2018 18:01			0.007	0.007	
10/26/2018 18:02			0.007	0.007	
10/26/2018 18:03			0.007	0.007	
10/26/2018 18:04			0.008	0.007	
10/26/2018 18:05	12.7	79	0.008	0.007	42.43106;-76.49965
10/26/2018 18:06			0.008	0.007	
10/26/2018 18:07			0.008	0.007	
10/26/2018 18:08			0.008	0.007	
10/26/2018 18:09			0.008	0.006	
10/26/2018 18:10	12.7	79	0.008	0.007	42.43105;-76.49968
10/26/2018 18:11			0.008	0.007	
10/26/2018 18:12			0.008	0.007	
10/26/2018 18:13			0.008	0.007	
10/26/2018 18:14			0.008	0.007	
10/26/2018 18:15	12.7	79	0.008	0.007	42.43101;-76.49968
10/26/2018 18:16			0.008	0.007	
10/26/2018 18:17			0.008	0.006	
10/26/2018 18:18			0.008	0.006	
10/26/2018 18:19			0.008	0.006	
10/26/2018 18:20	12.7	79	0.008	0.006	42.43105;-76.49969
10/26/2018 18:21			0.008	0.006	
10/26/2018 18:22			0.008	0.006	
10/26/2018 18:23			0.008	0.006	
10/26/2018 18:24			0.008	0.006	
10/26/2018 18:25	12.7	77.9	0.008	0.006	42.43102;-76.49964
10/26/2018 18:26			0.008	0.006	
10/26/2018 18:27			0.008	0.006	
10/26/2018 18:28			0.008	0.006	
10/26/2018 18:29			0.008	0.006	
10/26/2018 18:30	12.7	90.1	0.008	0.007	42.431;-76.49966
10/26/2018 18:31			0.008	0.006	
10/26/2018 18:32			0.008	0.006	
10/26/2018 18:33			0.008	0.006	
10/26/2018 18:34			0.008	0.006	
10/26/2018 18:35	12.7	79	0.008	0.006	42.43105;-76.49971
10/26/2018 18:36			0.008	0.006	
10/26/2018 18:37			0.008	0.006	
10/26/2018 18:38			0.008	0.006	
10/26/2018 18:39			0.008	0.006	
10/26/2018 18:40	12.7	87	0.008	0.006	42.43104;-76.49969
10/26/2018 18:41			0.008	0.006	
10/26/2018 18:42			0.008	0.007	
10/26/2018 18:43			0.008	0.006	
10/26/2018 18:44			0.008	0.007	
10/26/2018 18:45	12.7	79	0.008	0.007	42.43106;-76.49969
10/26/2018 18:46			0.008	0.006	
10/26/2018 18:47			0.008	0.006	
10/26/2018 18:48			0.008	0.006	
10/26/2018 18:49			0.008	0.006	
10/26/2018 18:50	12.7	94.1	0.008	0.006	42.43106;-76.49969

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/26/2018 18:51			0.008	0.006	
10/26/2018 18:52			0.008	0.006	
10/26/2018 18:53			0.008	0.006	
10/26/2018 18:54			0.008	0.006	
10/26/2018 18:55	12.7	94.1	0.008	0.006	42.43099;-76.49967
10/26/2018 18:56			0.008	0.006	
10/26/2018 18:57			0.008	0.006	
10/26/2018 18:58			0.008	0.007	
10/26/2018 18:59			0.008	0.006	
10/26/2018 19:00	12.7	87	0.008	0.007	42.43096;-76.49966
10/26/2018 19:01			0.008	0.007	
10/26/2018 19:02			0.008	0.007	
10/26/2018 19:03			0.008	0.006	
10/26/2018 19:04			0.008	0.006	
10/26/2018 19:05	12.7	85	0.008	0.006	42.43093;-76.49965
10/26/2018 19:06			0.008	0.006	
10/26/2018 19:07			0.008	0.006	
10/26/2018 19:08			0.008	0.007	
10/26/2018 19:09			0.008	0.007	
10/26/2018 19:10	12.7	86	0.008	0.007	42.43097;-76.49966
10/26/2018 19:11			0.008	0.007	
10/26/2018 19:12			0.008	0.006	
10/26/2018 19:13			0.008	0.006	
10/26/2018 19:14			0.008	0.006	
10/26/2018 19:15	12.7	83	0.008	0.006	42.43112;-76.49967
10/26/2018 19:16			0.008	0.006	
10/26/2018 19:17			0.009	0.03	
10/26/2018 19:18			0.009	0.011	
10/26/2018 19:19			0.009	0.008	
10/26/2018 19:20	12.7	83	0.009	0.007	42.43104;-76.49972
10/26/2018 19:21			0.009	0.006	
10/26/2018 19:22			0.009	0.006	
10/26/2018 19:23			0.009	0.011	
10/26/2018 19:24			0.009	0.007	
10/26/2018 19:25	12.7	85	0.009	0.006	42.43111;-76.49973
10/26/2018 19:26			0.009	0.006	
10/26/2018 19:27			0.009	0.006	
10/26/2018 19:28			0.009	0.006	
10/26/2018 19:29			0.009	0.006	
10/26/2018 19:30	12.6	95.1	0.009	0.006	42.43108;-76.49971
10/26/2018 19:31			0.009	0.005	
10/26/2018 19:32			0.009	0.006	
10/26/2018 19:33			0.009	0.006	
10/26/2018 19:34			0.009	0.006	
10/26/2018 19:35	12.6	81	0.009	0.006	42.43106;-76.4997
10/26/2018 19:36			0.009	0.005	
10/26/2018 19:37			0.009	0.005	
10/26/2018 19:38			0.009	0.006	
10/26/2018 19:39			0.009	0.005	
10/26/2018 19:40	12.6	86	0.009	0.005	42.43108;-76.49973
10/26/2018 19:41			0.009	0.005	
10/26/2018 19:42			0.009	0.005	
10/26/2018 19:43			0.009	0.005	
10/26/2018 19:44			0.009	0.005	
10/26/2018 19:45	12.6	85	0.009	0.005	42.43109;-76.49972
10/26/2018 19:46			0.009	0.005	
10/26/2018 19:47			0.009	0.005	
10/26/2018 19:48			0.009	0.005	
10/26/2018 19:49			0.009	0.005	
10/26/2018 19:50	12.6	84	0.009	0.006	42.43107;-76.49969
10/26/2018 19:51			0.009	0.006	
10/26/2018 19:52			0.009	0.006	
10/26/2018 19:53			0.009	0.005	
10/26/2018 19:54			0.009	0.006	
10/26/2018 19:55	12.6	88.1	0.009	0.005	42.43105;-76.49968
10/26/2018 19:56			0.009	0.005	
10/26/2018 19:57			0.009	0.006	
10/26/2018 19:58			0.009	0.005	
10/26/2018 19:59			0.009	0.005	
10/26/2018 20:00	12.6	81	0.009	0.005	42.43105;-76.49968
10/26/2018 20:01			0.009	0.005	
10/26/2018 20:02			0.009	0.005	
10/26/2018 20:03			0.009	0.005	
10/26/2018 20:04			0.009	0.005	
10/26/2018 20:05	12.6	82	0.009	0.006	42.43105;-76.49976
10/26/2018 20:06			0.009	0.007	
10/26/2018 20:07			0.009	0.005	
10/26/2018 20:08			0.009	0.006	
10/26/2018 20:09			0.009	0.005	
10/26/2018 20:10	12.6	85	0.009	0.005	42.43106;-76.49976
10/26/2018 20:11			0.009	0.005	
10/29/2018 13:35					42.43145;-76.49941
10/29/2018 13:40	12.9	82			
10/29/2018 13:40					42.4313;-76.49934
10/29/2018 13:45	12.9	102.2			
10/29/2018 13:48	12.9	100.2			
10/29/2018 13:50	12.9	105.3	0		
10/29/2018 13:50					42.43127;-76.49932
10/29/2018 13:51			0	0.008	
10/29/2018 13:52			0	0.008	
10/29/2018 13:53			0	0.009	
10/29/2018 13:54			0	0.007	
10/29/2018 13:55	12.9	79	0	0.007	
10/29/2018 13:55					42.43139;-76.49931
10/29/2018 13:56			0	0.007	
10/29/2018 13:57			0	0.007	
10/29/2018 13:58			0	0.007	
10/29/2018 13:59			0	0.007	
10/29/2018 14:00	12.9	83	0	0.007	
10/29/2018 14:00					42.43144;-76.49939
10/29/2018 14:01			0	0.007	
10/29/2018 14:02			0	0.008	
10/29/2018 14:03			0	0.008	
10/29/2018 14:04			0	0.007	
10/29/2018 14:05	12.9	79	0	0.008	
10/29/2018 14:05					42.4314;-76.49931
10/29/2018 14:06			0	0.007	
10/29/2018 14:07			0	0.007	
10/29/2018 14:08			0	0.007	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/29/2018 14:09			0	0.007	
10/29/2018 14:10	12.9	90.1	0	0.007	
10/29/2018 14:10					42.4314;-76.49931
10/29/2018 14:11			0	0.007	
10/29/2018 14:12			0	0.007	
10/29/2018 14:13			0	0.007	
10/29/2018 14:14			0	0.007	
10/29/2018 14:15	12.9	88.1	0	0.007	
10/29/2018 14:15					42.43142;-76.49931
10/29/2018 14:16			0	0.007	
10/29/2018 14:17			0	0.007	
10/29/2018 14:18			0	0.007	
10/29/2018 14:19			0	0.008	
10/29/2018 14:20	12.9	77.9	0	0.008	
10/29/2018 14:20					42.43141;-76.4993
10/29/2018 14:21			0	0.007	
10/29/2018 14:22			0	0.007	
10/29/2018 14:23			0.001	0.007	
10/29/2018 14:24			0.001	0.007	
10/29/2018 14:25	12.9	82	0.001	0.007	
10/29/2018 14:25					42.43139;-76.49917
10/29/2018 14:26			0.001	0.008	
10/29/2018 14:27			0.001	0.008	
10/29/2018 14:28			0.001	0.008	
10/29/2018 14:29			0.001	0.008	
10/29/2018 14:30	12.9	76.9	0.001	0.007	
10/29/2018 14:30					42.43142;-76.49926
10/29/2018 14:31			0.001	0.007	
10/29/2018 14:32			0.001	0.007	
10/29/2018 14:33			0.001	0.008	
10/29/2018 14:34			0.001	0.008	
10/29/2018 14:35	12.9	89.1	0.001	0.008	
10/29/2018 14:35					42.43143;-76.49935
10/29/2018 14:36			0.001	0.007	
10/29/2018 14:37			0.001	0.008	
10/29/2018 14:38			0.001	0.008	
10/29/2018 14:39			0.001	0.007	
10/29/2018 14:40	12.9	93.1	0.001	0.007	
10/29/2018 14:40					42.43145;-76.4994
10/29/2018 14:41			0.001	0.007	
10/29/2018 14:42			0.001	0.007	
10/29/2018 14:43			0.001	0.007	
10/29/2018 14:44			0.001	0.008	
10/29/2018 14:45	12.9	75.9	0.001	0.008	
10/29/2018 14:45					42.43145;-76.4994
10/29/2018 14:46			0.001	0.008	
10/29/2018 14:47			0.001	0.009	
10/29/2018 14:48			0.001	0.009	
10/29/2018 14:49			0.001	0.009	
10/29/2018 14:50	12.9	77.9	0.001	0.009	
10/29/2018 14:50					42.43147;-76.49937
10/29/2018 14:51			0.001	0.01	
10/29/2018 14:52			0.001	0.009	
10/29/2018 14:53			0.001	0.008	
10/29/2018 14:54			0.001	0.008	
10/29/2018 14:55	12.9	84	0.001	0.008	
10/29/2018 14:55					42.43139;-76.49934
10/29/2018 14:56			0.001	0.008	
10/29/2018 14:57			0.001	0.009	
10/29/2018 14:58			0.001	0.008	
10/29/2018 14:59			0.001	0.009	
10/29/2018 15:00	12.9	96.2	0.001	0.01	
10/29/2018 15:00					42.43139;-76.49931
10/29/2018 15:01			0.001	0.011	
10/29/2018 15:02			0.001	0.011	
10/29/2018 15:03			0.001	0.011	
10/29/2018 15:04			0.001	0.01	
10/29/2018 15:05	12.9	82	0.001	0.01	
10/29/2018 15:05					42.43141;-76.49933
10/29/2018 15:06			0.001	0.009	
10/29/2018 15:07			0.001	0.008	
10/29/2018 15:08			0.001	0.006	
10/29/2018 15:09			0.001	0.006	
10/29/2018 15:10	12.9	80	0.001	0.006	
10/29/2018 15:10					42.43141;-76.49929
10/29/2018 15:11			0.001	0.007	
10/29/2018 15:12			0.001	0.008	
10/29/2018 15:13			0.001	0.007	
10/29/2018 15:14			0.001	0.005	
10/29/2018 15:15	12.9	87	0.001	0.006	
10/29/2018 15:15					42.43148;-76.49926
10/29/2018 15:16			0.001	0.006	
10/29/2018 15:17			0.001	0.006	
10/29/2018 15:18			0.001	0.006	
10/29/2018 15:19			0.001	0.007	
10/29/2018 15:20	12.9	87	0.001	0.008	
10/29/2018 15:20					42.43136;-76.49931
10/29/2018 15:21			0.001	0.009	
10/29/2018 15:22			0.001	0.011	
10/29/2018 15:23			0.002	0.009	
10/29/2018 15:24			0.002	0.009	
10/29/2018 15:25	12.9	89.1	0.002	0.008	
10/29/2018 15:25					42.43132;-76.49931
10/29/2018 15:26			0.002	0.008	
10/29/2018 15:27			0.002	0.008	
10/29/2018 15:28			0.002	0.008	
10/29/2018 15:29			0.002	0.008	
10/29/2018 15:30	12.9	86	0.002	0.008	
10/29/2018 15:30					42.43125;-76.49935
10/29/2018 15:31			0.002	0.008	
10/29/2018 15:32			0.002	0.007	
10/29/2018 15:33			0.002	0.006	
10/29/2018 15:34			0.002	0.006	
10/29/2018 15:35	12.9	79	0.002	0.006	
10/29/2018 15:35					42.43123;-76.49934
10/29/2018 15:36			0.002	0.006	
10/29/2018 15:37			0.002	0.006	
10/29/2018 15:38			0.002	0.007	
10/29/2018 15:39			0.002	0.007	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/29/2018 15:40	12.9	80	0.002	0.013	
10/29/2018 15:40					42.43152;-76.49922
10/29/2018 15:41			0.002	0.008	
10/29/2018 15:42			0.002	0.008	
10/29/2018 15:43			0.002	0.008	
10/29/2018 15:44			0.002	0.008	
10/29/2018 15:45	12.8	86	0.002	0.007	
10/29/2018 15:45					42.43137;-76.4993
10/29/2018 15:46			0.002	0.007	
10/29/2018 15:47			0.002	0.007	
10/29/2018 15:48			0.002	0.007	
10/29/2018 15:49			0.002	0.007	
10/29/2018 15:50	12.8	77.9	0.002	0.006	
10/29/2018 15:50					42.43144;-76.49929
10/29/2018 15:51			0.002	0.006	
10/29/2018 15:52			0.002	0.005	
10/29/2018 15:53			0.002	0.005	
10/29/2018 15:54			0.002	0.005	
10/29/2018 15:55	12.9	80	0.002	0.006	
10/29/2018 15:55					42.43148;-76.49934
10/29/2018 15:56			0.002	0.005	
10/29/2018 15:57			0.002	0.007	
10/29/2018 15:58			0.002	0.008	
10/29/2018 15:59			0.002	0.006	
10/29/2018 16:00	12.8	76.9	0.002	0.005	
10/29/2018 16:00					42.43129;-76.49926
10/29/2018 16:01			0.002	0.005	
10/29/2018 16:02			0.002	0.005	
10/29/2018 16:03			0.002	0.005	
10/29/2018 16:04			0.002	0.004	
10/29/2018 16:05	12.8	77.9	0.002	0.005	
10/29/2018 16:05					42.43102;-76.49914
10/29/2018 16:06			0.002	0.004	
10/29/2018 16:07			0.002	0.005	
10/29/2018 16:08			0.002	0.006	
10/29/2018 16:09			0.002	0.005	
10/29/2018 16:10	12.8	89.1	0.002	0.004	
10/29/2018 16:10					42.43115;-76.49921
10/29/2018 16:11			0.002	0.005	
10/29/2018 16:12			0.002	0.004	
10/29/2018 16:13			0.002	0.004	
10/29/2018 16:14			0.002	0.005	
10/29/2018 16:15	12.8	89.1	0.002	0.005	
10/29/2018 16:15					42.43117;-76.49922
10/29/2018 16:16			0.002	0.005	
10/29/2018 16:17			0.002	0.005	
10/29/2018 16:18			0.002	0.005	
10/29/2018 16:19			0.002	0.005	
10/29/2018 16:20	12.8	79	0.002	0.005	
10/29/2018 16:20					42.43126;-76.49934
10/29/2018 16:21			0.002	0.005	
10/29/2018 16:22			0.002	0.004	
10/29/2018 16:23			0.002	0.004	
10/29/2018 16:24			0.002	0.004	
10/29/2018 16:25	12.8	79	0.002	0.004	
10/29/2018 16:25					42.4313;-76.49928
10/29/2018 16:26			0.002	0.004	
10/29/2018 16:27			0.002	0.004	
10/29/2018 16:28			0.002	0.004	
10/29/2018 16:29			0.002	0.004	
10/29/2018 16:30	12.8	79	0.002	0.005	
10/29/2018 16:30					42.43125;-76.49932
10/29/2018 16:31			0.002	0.004	
10/29/2018 16:32			0.002	0.004	
10/29/2018 16:33			0.002	0.005	
10/29/2018 16:34			0.002	0.007	
10/29/2018 16:35	12.8	77.9	0.002	0.005	
10/29/2018 16:35					42.43124;-76.49926
10/29/2018 16:36			0.002	0.005	
10/29/2018 16:37			0.002	0.005	
10/29/2018 16:38			0.002	0.005	
10/29/2018 16:39			0.002	0.004	
10/29/2018 16:40	12.8	82	0.002	0.005	
10/29/2018 16:40					42.43128;-76.49926
10/29/2018 16:41			0.002	0.005	
10/29/2018 16:42			0.002	0.005	
10/29/2018 16:43			0.002	0.004	
10/29/2018 16:44			0.002	0.005	
10/29/2018 16:45	12.8	79	0.002	0.005	
10/29/2018 16:45					42.43133;-76.49929
10/29/2018 16:46			0.003	0.005	
10/29/2018 16:47			0.003	0.005	
10/29/2018 16:48			0.003	0.005	
10/29/2018 16:49			0.003	0.005	
10/29/2018 16:50	12.8	77.9	0.003	0.005	
10/29/2018 16:50					42.43142;-76.49938
10/29/2018 16:51			0.003	0.005	
10/29/2018 16:52			0.003	0.005	
10/29/2018 16:53			0.003	0.005	
10/29/2018 16:54			0.003	0.005	
10/29/2018 16:55	12.8	77.9	0.003	0.005	
10/29/2018 16:55					42.43139;-76.49931
10/29/2018 16:56			0.003	0.005	
10/29/2018 16:57			0.003	0.005	
10/29/2018 16:58			0.003	0.005	
10/29/2018 16:59			0.003	0.005	
10/29/2018 17:00	12.8	76.9	0.003	0.005	
10/29/2018 17:00					42.43138;-76.49932
10/29/2018 17:01			0.003	0.005	
10/29/2018 17:02			0.003	0.005	
10/29/2018 17:03			0.003	0.005	
10/29/2018 17:04			0.003	0.005	
10/29/2018 17:05	12.8	89.1	0.003	0.005	
10/29/2018 17:05					42.43138;-76.49932
10/29/2018 17:06			0.003	0.005	
10/29/2018 17:07			0.003	0.005	
10/29/2018 17:08			0.003	0.005	
10/29/2018 17:09			0.003	0.005	
10/29/2018 17:10	12.8	77.9	0.003	0.005	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/29/2018 17:10					42.43137;-76.49931
10/29/2018 17:11			0.003	0.005	
10/29/2018 17:12			0.003	0.005	
10/29/2018 17:13			0.003	0.005	
10/29/2018 17:14			0.003	0.005	
10/29/2018 17:15	12.8	80	0.003	0.005	
10/29/2018 17:15					42.43141;-76.49931
10/29/2018 17:16			0.003	0.005	
10/29/2018 17:17			0.003	0.004	
10/29/2018 17:18			0.003	0.005	
10/29/2018 17:19			0.003	0.005	
10/29/2018 17:20	12.8	83	0.003	0.005	
10/29/2018 17:20					42.43145;-76.49933
10/29/2018 17:21			0.003	0.005	
10/29/2018 17:22			0.003	0.005	
10/29/2018 17:23			0.003	0.004	
10/29/2018 17:24			0.003	0.004	
10/29/2018 17:25	12.8	79	0.003	0.005	
10/29/2018 17:25					42.43138;-76.49931
10/29/2018 17:26			0.003	0.005	
10/29/2018 17:27			0.003	0.005	
10/29/2018 17:28			0.003	0.005	
10/29/2018 17:29			0.003	0.005	
10/29/2018 17:30	12.8	77.9	0.003	0.005	
10/29/2018 17:30					42.43139;-76.49929
10/29/2018 17:31			0.003	0.036	
10/29/2018 17:32			0.003	0.006	
10/29/2018 17:33			0.003	0.005	
10/29/2018 17:34			0.003	0.005	
10/29/2018 17:35	12.8	80	0.003	0.006	
10/29/2018 17:35					42.43138;-76.49933
10/29/2018 17:36			0.003	0.004	
10/29/2018 17:37			0.003	0.004	
10/29/2018 17:38			0.003	0.004	
10/29/2018 17:39			0.003	0.004	
10/29/2018 17:40	12.8	92.1	0.003	0.005	
10/29/2018 17:40					42.43137;-76.49939
10/29/2018 17:41			0.003	0.005	
10/29/2018 17:42			0.003	0.005	
10/29/2018 17:43			0.003	0.005	
10/29/2018 17:44			0.003	0.006	
10/29/2018 17:45	12.8	83	0.003	0.004	
10/29/2018 17:45					42.43136;-76.4994
10/29/2018 17:46			0.003	0.004	
10/29/2018 17:47			0.003	0.004	
10/29/2018 17:48			0.003	0.004	
10/29/2018 17:49			0.003	0.004	
10/29/2018 17:50	12.8	86	0.003	0.004	
10/29/2018 17:50					42.43136;-76.4994
10/29/2018 17:51			0.003	0.004	
10/29/2018 17:52			0.003	0.005	
10/29/2018 17:53			0.003	0.005	
10/29/2018 17:54			0.003	0.005	
10/29/2018 17:55	12.8	106.3	0.003	0.005	
10/29/2018 17:55					42.43134;-76.49934
10/29/2018 17:56			0.003	0.004	
10/29/2018 17:57			0.003	0.003	
10/29/2018 17:58			0.003	0.003	
10/29/2018 17:59			0.003	0.003	
10/29/2018 18:00	12.7	88.1	0.003	0.003	
10/29/2018 18:00					42.43137;-76.49934
10/29/2018 18:01			0.003	0.003	
10/29/2018 18:02			0.003	0.003	
10/29/2018 18:03			0.003	0.003	
10/29/2018 18:04			0.003	0.003	
10/29/2018 18:05	12.7	92.1	0.003	0.003	
10/29/2018 18:05					42.43129;-76.49931
10/29/2018 18:06			0.003	0.003	
10/29/2018 18:07			0.003	0.003	
10/29/2018 18:08			0.003	0.003	
10/29/2018 18:09			0.003	0.003	
10/29/2018 18:10	12.7	85	0.003	0.003	42.43132;-76.49931
10/29/2018 18:11			0.003	0.003	
10/29/2018 18:12			0.003	0.003	
10/29/2018 18:13			0.003	0.003	
10/29/2018 18:14			0.003	0.004	
10/29/2018 18:15	12.7	80	0.003	0.004	42.43134;-76.49928
10/29/2018 18:16			0.003	0.005	
10/29/2018 18:17			0.003	0.004	
10/29/2018 18:18			0.003	0.005	
10/29/2018 18:19			0.003	0.005	
10/29/2018 18:20	12.7	77.9	0.003	0.005	42.43136;-76.49927
10/29/2018 18:21			0.003	0.005	
10/29/2018 18:22			0.003	0.005	
10/29/2018 18:23			0.003	0.005	
10/29/2018 18:24			0.003	0.004	
10/29/2018 18:25	12.7	96.2	0.004	0.006	42.43143;-76.49928
10/29/2018 18:26			0.004	0.003	
10/29/2018 18:27			0.004	0.002	
10/29/2018 18:28			0.004	0.002	
10/29/2018 18:29			0.004	0.002	
10/29/2018 18:30	12.7	79	0.004	0.002	42.43149;-76.49932
10/29/2018 18:31			0.004	0.002	
10/29/2018 18:32			0.004	0.002	
10/29/2018 18:33			0.004	0.002	
10/29/2018 18:34			0.004	0.002	
10/29/2018 18:35	12.7	81	0.004	0.002	42.43142;-76.49928
10/29/2018 18:36			0.004	0.002	
10/29/2018 18:37			0.004	0.002	
10/29/2018 18:38			0.004	0.002	
10/29/2018 18:39			0.004	0.002	
10/29/2018 18:40	12.7	79	0.004	0.002	42.43154;-76.49935
10/29/2018 18:41			0.004	0.002	
10/29/2018 18:42			0.004	0.002	
10/29/2018 18:43			0.004	0.002	
10/29/2018 18:44			0.004	0.002	
10/29/2018 18:45	12.7	90.1	0.004	0.002	42.43137;-76.49924
10/29/2018 18:46			0.004	0.002	
10/29/2018 18:47			0.004	0.002	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/29/2018 18:48			0.004	0.002	
10/29/2018 18:49			0.004	0.002	
10/29/2018 18:50	12.7	91.1	0.004	0.002	42.43146;-76.49925
10/29/2018 18:51			0.004	0.002	
10/29/2018 18:52			0.004	0.002	
10/29/2018 18:53			0.004	0.002	
10/29/2018 18:54			0.004	0.003	
10/29/2018 18:55	12.7	79	0.004	0.003	42.43134;-76.49929
10/29/2018 18:56			0.004	0.003	
10/29/2018 18:57			0.004	0.003	
10/29/2018 18:58			0.004	0.003	
10/29/2018 18:59			0.004	0.002	
10/29/2018 19:00	12.7	77.9	0.004	0.002	42.43132;-76.49931
10/29/2018 19:01			0.004	0.002	
10/29/2018 19:02			0.004	0.002	
10/29/2018 19:03			0.004	0.002	
10/29/2018 19:04			0.004	0.003	
10/29/2018 19:05	12.7	79	0.004	0.002	42.4314;-76.49926
10/29/2018 19:06			0.004	0.002	
10/29/2018 19:07			0.004	0.002	
10/29/2018 19:08			0.004	0.002	
10/29/2018 19:09			0.004	0.002	
10/29/2018 19:10	12.7	94.1	0.004	0.002	42.43136;-76.49935
10/29/2018 19:11			0.004	0.002	
10/29/2018 19:12			0.004	0.002	
10/29/2018 19:13			0.004	0.002	
10/29/2018 19:14			0.004	0.002	
10/29/2018 19:15	12.7	83	0.004	0.002	42.43133;-76.49937
10/29/2018 19:16			0.004	0.002	
10/29/2018 19:17			0.004	0.002	
10/29/2018 19:18			0.004	0.002	
10/29/2018 19:19			0.004	0.002	
10/29/2018 19:20	12.7	82	0.004	0.002	42.43133;-76.4993
10/29/2018 19:21			0.004	0.002	
10/29/2018 19:22			0.004	0.002	
10/29/2018 19:23			0.004	0.002	
10/29/2018 19:24			0.004	0.002	
10/29/2018 19:25	12.6	79	0.004	0.002	42.43137;-76.49932
10/29/2018 19:26			0.004	0.002	
10/29/2018 19:27			0.004	0.002	
10/29/2018 19:28			0.004	0.002	
10/29/2018 19:29			0.004	0.002	
10/29/2018 19:30	12.7	79	0.004	0.002	42.43132;-76.49931
10/29/2018 19:31			0.004	0.002	
10/29/2018 19:32			0.004	0.002	
10/29/2018 19:33			0.004	0.002	
10/29/2018 19:34			0.004	0.002	
10/29/2018 19:35	12.7	80	0.004	0.002	42.43134;-76.49931
10/29/2018 19:36			0.004	0.002	
10/29/2018 19:37			0.004	0.002	
10/29/2018 19:38			0.004	0.002	
10/29/2018 19:39			0.004	0.003	
10/29/2018 19:40	12.6	91.1	0.004	0.01	42.43135;-76.49931
10/29/2018 19:41			0.004	0.004	
10/29/2018 19:42			0.004	0.002	
10/29/2018 19:43			0.004	0.002	
10/29/2018 19:44			0.004	0.002	
10/29/2018 19:45	12.6	81	0.004	0.002	42.4313;-76.49928
10/29/2018 19:46			0.004	0.002	
10/29/2018 19:47			0.004	0.002	
10/29/2018 19:48			0.004	0.002	
10/29/2018 19:49			0.004	0.002	
10/29/2018 19:50	12.6	82	0.004	0.002	42.43134;-76.49928
10/29/2018 19:51			0.004	0.002	
10/29/2018 19:52			0.004	0.002	
10/29/2018 19:53			0.004	0.003	
10/29/2018 19:54			0.004	0.003	
10/29/2018 19:55	12.6	79	0.004	0.002	42.43133;-76.4993
10/29/2018 19:56			0.004	0.002	
10/29/2018 19:57			0.004	0.002	
10/29/2018 19:58			0.004	0.002	
10/29/2018 19:59			0.004	0.002	
10/29/2018 20:00	12.6	79	0.004	0.007	42.43134;-76.49928
10/29/2018 20:01			0.004	0.003	
10/29/2018 20:02			0.004	0.003	
10/29/2018 20:03			0.004	0.003	
10/29/2018 20:04			0.004	0.004	
10/29/2018 20:05	12.6	87	0.004	0.005	42.43133;-76.49925
10/29/2018 20:06			0.004	0.005	
10/29/2018 20:07			0.004	0.003	
10/29/2018 20:08			0.004	0.005	
10/29/2018 20:09			0.004	0.009	
10/29/2018 20:10	12.6	89.1	0.004	0.008	42.43131;-76.49928
10/29/2018 20:11			0.004	0.004	
10/29/2018 20:12			0.004	0.005	
10/29/2018 20:13			0.004	0.006	
10/29/2018 20:14			0.004	0.003	
10/29/2018 20:15	12.6	79	0.004	0.003	42.43128;-76.49926
10/29/2018 20:16			0.004	0.003	
10/29/2018 20:17			0.004	0.005	
10/29/2018 20:18			0.004	0.003	
10/29/2018 20:19			0.004	0.005	
10/29/2018 20:20	12.6	85	0.004	0.006	42.43135;-76.49929
10/29/2018 20:21			0.004	0.003	
10/29/2018 20:22			0.004	0.003	
10/29/2018 20:23			0.004	0.003	
10/29/2018 20:24			0.004	0.003	
10/29/2018 20:25	12.6	80	0.004	0.003	42.43129;-76.49928
10/29/2018 20:26			0.004	0.003	
10/29/2018 20:27			0.004	0.005	
10/29/2018 20:28			0.004	0.003	
10/29/2018 20:29			0.004	0.003	
10/29/2018 20:30	12.6	83	0.004	0.003	42.4313;-76.49932
10/29/2018 20:31			0.004	0.003	
10/29/2018 20:32			0.004	0.003	
10/29/2018 20:33			0.004	0.002	
10/29/2018 20:34			0.004	0.003	
10/29/2018 20:35	12.6	87	0.004	0.002	42.43139;-76.49924
10/29/2018 20:36			0.004	0.003	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/29/2018 20:37			0.004	0.003	
10/29/2018 20:38			0.004	0.002	
10/29/2018 20:39			0.004	0.002	
10/29/2018 20:40	12.6	83	0.004	0.002	42.43138;-76.49924
10/29/2018 20:41			0.004	0.002	
10/29/2018 20:42			0.004	0.003	
10/29/2018 20:43			0.004	0.003	
10/29/2018 20:44			0.004	0.003	
10/29/2018 20:45	12.6	107.3	0.004	0.002	42.43133;-76.49931
10/29/2018 20:46			0.004	0.002	
10/29/2018 20:47			0.004	0.002	
10/29/2018 20:48			0.004	0.003	
10/29/2018 20:49			0.004	0.003	
10/29/2018 20:50	12.5	90.1	0.004	0.003	42.43129;-76.49913
10/29/2018 20:51			0.004	0.003	
10/29/2018 20:52			0.004	0.003	
10/29/2018 20:53			0.004	0.003	
10/29/2018 20:54			0.004	0.003	
10/29/2018 20:55	12.5	80	0.004	0.003	
10/29/2018 20:55					42.43137;-76.4992
10/29/2018 20:56			0.004	0.003	
10/29/2018 20:57			0.004	0.003	
10/29/2018 20:58			0.004	0.003	
10/29/2018 20:59			0.004	0.003	
10/29/2018 21:00	12.5	79	0.004	0.003	
10/29/2018 21:00					42.43135;-76.4993
10/29/2018 21:01			0.004	0.003	
10/29/2018 21:02			0.004	0.003	
10/29/2018 21:03			0.004	0.003	
10/29/2018 21:04			0.004	0.003	
10/29/2018 21:05	12.5	79	0.004	0.003	
10/29/2018 21:05					42.43133;-76.49928
10/29/2018 21:06			0.004	0.003	
10/29/2018 21:07			0.004	0.003	
10/29/2018 21:08			0.004	0.003	
10/29/2018 21:09			0.004	0.003	
10/29/2018 21:10	12.5	94.1	0.004	0.002	
10/29/2018 21:10					42.43129;-76.49926
10/29/2018 21:11			0.004	0.002	
10/29/2018 21:12			0.004	0.002	
10/29/2018 21:13			0.004	0.002	
10/29/2018 21:14			0.004	0.002	
10/29/2018 21:15	12.5	80	0.004	0.002	
10/29/2018 21:15					42.43128;-76.49928
10/29/2018 21:16			0.004	0.002	
10/29/2018 21:17			0.004	0.002	
10/29/2018 21:18			0.004	0.002	
10/29/2018 21:19			0.004	0.002	
10/29/2018 21:20	12.5	81	0.004	0.002	
10/29/2018 21:20					42.43131;-76.49929
10/29/2018 21:21			0.004	0.002	
10/29/2018 21:22			0.004	0.002	
10/29/2018 21:23			0.004	0.002	
10/29/2018 21:24			0.004	0.002	
10/29/2018 21:25	12.5	80	0.005	0.002	
10/29/2018 21:25					42.43133;-76.49931
10/29/2018 21:26			0.005	0.002	
10/29/2018 21:27			0.005	0.003	
10/29/2018 21:28			0.005	0.002	
10/30/2018 12:12	13.1	98.2			
10/30/2018 12:12					42.429735799999996;-76.50610400000001
10/30/2018 12:15	12.9	86			
10/30/2018 12:15					42.42806;-76.50227
10/30/2018 12:16			0	0.013	
10/30/2018 12:17			0	0.013	
10/30/2018 12:18			0	0.013	
10/30/2018 12:19			0	0.013	
10/30/2018 12:20	12.9	94.1	0	0.013	
10/30/2018 12:20					42.42793;-76.5024
10/30/2018 12:21			0	0.013	
10/30/2018 12:22			0	0.012	
10/30/2018 12:23			0	0.012	
10/30/2018 12:24			0	0.012	
10/30/2018 12:25	12.9	89.1	0	0.012	
10/30/2018 12:25					42.42789;-76.50238
10/30/2018 12:26			0	0.012	
10/30/2018 12:27			0	0.012	
10/30/2018 12:28			0	0.012	
10/30/2018 12:29			0	0.012	
10/30/2018 12:30	12.9	77.9	0	0.012	
10/30/2018 12:30					42.42797;-76.50238
10/30/2018 12:31			0	0.012	
10/30/2018 12:32			0	0.012	
10/30/2018 12:33			0	0.011	
10/30/2018 12:34			0	0.012	
10/30/2018 12:35	12.9	95.1	0	0.011	42.42785;-76.50233
10/30/2018 12:36			0.001	0.011	
10/30/2018 12:37			0.001	0.011	
10/30/2018 12:38			0.001	0.011	
10/30/2018 12:39			0.001	0.011	
10/30/2018 12:40	12.9	76.9	0.001	0.011	42.42819;-76.50237
10/30/2018 12:41			0.001	0.011	
10/30/2018 12:42			0.001	0.011	
10/30/2018 12:43			0.001	0.011	
10/30/2018 12:44			0.001	0.011	
10/30/2018 12:45	12.8	98.2	0.001	0.011	42.42802;-76.50242
10/30/2018 12:46			0.001	0.011	
10/30/2018 12:47			0.001	0.011	
10/30/2018 12:48			0.001	0.011	
10/30/2018 12:49			0.001	0.011	
10/30/2018 12:50	12.9	90.1	0.001	0.011	42.42796;-76.5024
10/30/2018 12:51			0.001	0.011	
10/30/2018 12:52			0.001	0.011	
10/30/2018 12:53			0.001	0.011	
10/30/2018 12:54			0.001	0.011	
10/30/2018 12:55	12.8	76.9	0.001	0.011	42.42794;-76.5024
10/30/2018 12:56			0.001	0.011	
10/30/2018 12:57			0.001	0.011	
10/30/2018 12:58			0.001	0.011	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/30/2018 12:59			0.001	0.011	
10/30/2018 13:00	12.8	82	0.001	0.011	42.42796;-76.50238
10/30/2018 13:01			0.001	0.011	
10/30/2018 13:02			0.001	0.011	
10/30/2018 13:03			0.001	0.011	
10/30/2018 13:04			0.001	0.011	
10/30/2018 13:05	12.8	76.9	0.001	0.011	42.42796;-76.5024
10/30/2018 13:06			0.001	0.011	
10/30/2018 13:07			0.001	0.011	
10/30/2018 13:08			0.001	0.011	
10/30/2018 13:09			0.001	0.011	
10/30/2018 13:10	12.8	76.9	0.001	0.011	42.42792;-76.5024
10/30/2018 13:11			0.001	0.011	
10/30/2018 13:12			0.001	0.011	
10/30/2018 13:13			0.001	0.011	
10/30/2018 13:14			0.001	0.011	
10/30/2018 13:15	12.8	77.9	0.001	0.012	42.4279;-76.50238
10/30/2018 13:16			0.001	0.012	
10/30/2018 13:17			0.001	0.011	
10/30/2018 13:18			0.001	0.012	
10/30/2018 13:19			0.002	0.011	
10/30/2018 13:20	12.8	77.9	0.002	0.012	42.42805;-76.5024
10/30/2018 13:21			0.002	0.011	
10/30/2018 13:22			0.002	0.011	
10/30/2018 13:23			0.002	0.011	
10/30/2018 13:24			0.002	0.011	
10/30/2018 13:25	12.8	93.1	0.002	0.011	42.42809;-76.50243
10/30/2018 13:26			0.002	0.011	
10/30/2018 13:27			0.002	0.011	
10/30/2018 13:28			0.002	0.011	
10/30/2018 13:29			0.002	0.01	
10/30/2018 13:30	12.8	91.1	0.002	0.014	42.42801;-76.50241
10/30/2018 13:31			0.002	0.012	
10/30/2018 13:32			0.002	0.011	
10/30/2018 13:33			0.002	0.012	
10/30/2018 13:34			0.002	0.011	
10/30/2018 13:35	12.8	82	0.002	0.011	42.4281;-76.50238
10/30/2018 13:36			0.002	0.021	
10/30/2018 13:37			0.002	0.015	
10/30/2018 13:38			0.002	0.012	
10/30/2018 13:39			0.002	0.011	
10/30/2018 13:40	12.8	80	0.002	0.011	42.42811;-76.50243
10/30/2018 13:41			0.002	0.011	
10/30/2018 13:42			0.002	0.011	
10/30/2018 13:43			0.002	0.011	
10/30/2018 13:44			0.002	0.011	
10/30/2018 13:45	12.8	82	0.002	0.01	42.42803;-76.5024
10/30/2018 13:46			0.002	0.011	
10/30/2018 13:47			0.002	0.011	
10/30/2018 13:48			0.002	0.011	
10/30/2018 13:49			0.002	0.011	
10/30/2018 13:50	12.8	77.9	0.002	0.01	42.42803;-76.50243
10/30/2018 13:51			0.002	0.01	
10/30/2018 13:52			0.002	0.01	
10/30/2018 13:53			0.002	0.011	
10/30/2018 13:54			0.002	0.01	
10/30/2018 13:55	12.8	76.9	0.002	0.01	42.42804;-76.50237
10/30/2018 13:56			0.002	0.015	
10/30/2018 13:57			0.002	0.014	
10/30/2018 13:58			0.002	0.01	
10/30/2018 13:59			0.002	0.01	
10/30/2018 14:00	12.8	89.1	0.002	0.01	42.42805;-76.50241
10/30/2018 14:01			0.003	0.01	
10/30/2018 14:02			0.003	0.01	
10/30/2018 14:03			0.003	0.011	
10/30/2018 14:04			0.003	0.01	
10/30/2018 14:05	12.8	79	0.003	0.01	42.42802;-76.50236
10/30/2018 14:06			0.003	0.01	
10/30/2018 14:07			0.003	0.01	
10/30/2018 14:08			0.003	0.009	
10/30/2018 14:09			0.003	0.01	
10/30/2018 14:10	12.8	86	0.003	0.009	42.42796;-76.50237
10/30/2018 14:11			0.003	0.01	
10/30/2018 14:12			0.003	0.008	
10/30/2018 14:13			0.003	0.008	
10/30/2018 14:14			0.003	0.008	
10/30/2018 14:15	12.8	84	0.003	0.008	42.42804;-76.50238
10/30/2018 14:16			0.003	0.008	
10/30/2018 14:17			0.003	0.008	
10/30/2018 14:18			0.003	0.012	
10/30/2018 14:19			0.003	0.007	
10/30/2018 14:20	12.8	77.9	0.003	0.007	42.42802;-76.5024
10/30/2018 14:21			0.003	0.007	
10/30/2018 14:22			0.003	0.008	
10/30/2018 14:23			0.003	0.008	
10/30/2018 14:24			0.003	0.007	
10/30/2018 14:25	12.8	80	0.003	0.006	42.42822;-76.50247
10/30/2018 14:26			0.003	0.006	
10/30/2018 14:27			0.003	0.006	
10/30/2018 14:28			0.003	0.006	
10/30/2018 14:29			0.003	0.006	
10/30/2018 14:30	12.8	77.9	0.003	0.006	42.42806;-76.50243
10/30/2018 14:31			0.003	0.006	
10/30/2018 14:32			0.003	0.006	
10/30/2018 14:33			0.003	0.006	
10/30/2018 14:34			0.003	0.005	
10/30/2018 14:35	12.8	79	0.003	0.005	42.42801;-76.50235
10/30/2018 14:36			0.003	0.01	
10/30/2018 14:37			0.003	0.005	
10/30/2018 14:38			0.003	0.005	
10/30/2018 14:39			0.003	0.005	
10/30/2018 14:40	12.8	76.9	0.003	0.005	42.42806;-76.50236
10/30/2018 14:41			0.003	0.006	
10/30/2018 14:42			0.003	0.005	
10/30/2018 14:43			0.003	0.005	
10/30/2018 14:44			0.003	0.005	
10/30/2018 14:45	12.8	79	0.003	0.005	42.42815;-76.50237
10/30/2018 14:46			0.003	0.005	
10/30/2018 14:47			0.003	0.005	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/30/2018 14:48			0.003	0.005	
10/30/2018 14:49			0.003	0.005	
10/30/2018 14:50	12.8	93.1	0.003	0.005	42.42831;-76.50238
10/30/2018 14:51			0.003	0.004	
10/30/2018 14:52			0.003	0.006	
10/30/2018 14:53			0.003	0.006	
10/30/2018 14:54			0.003	0.004	
10/30/2018 14:55	12.8	79	0.003	0.004	42.42812;-76.50246
10/30/2018 14:56			0.003	0.004	
10/30/2018 14:57			0.003	0.005	
10/30/2018 14:58			0.003	0.005	
10/30/2018 14:59			0.003	0.005	
10/30/2018 15:00	12.7	95.1	0.003	0.005	42.42813;-76.50234
10/30/2018 15:01			0.003	0.017	
10/30/2018 15:02			0.003	0.007	
10/30/2018 15:03			0.003	0.005	
10/30/2018 15:04			0.003	0.005	
10/30/2018 15:05	12.7	77.9	0.003	0.007	42.42804;-76.50244
10/30/2018 15:06			0.003	0.005	
10/30/2018 15:07			0.003	0.006	
10/30/2018 15:08			0.003	0.005	
10/30/2018 15:09			0.003	0.005	
10/30/2018 15:10	12.7	86	0.003	0.005	42.42815;-76.50233
10/30/2018 15:11			0.003	0.005	
10/30/2018 15:12			0.003	0.006	
10/30/2018 15:13			0.004	0.005	
10/30/2018 15:14			0.004	0.005	
10/30/2018 15:15	12.7	89.1	0.004	0.004	42.42784;-76.50233
10/30/2018 15:16			0.004	0.006	
10/30/2018 15:17			0.004	0.007	
10/30/2018 15:18			0.004	0.006	
10/30/2018 15:19			0.004	0.005	
10/30/2018 15:20	12.7	76.9	0.004	0.006	42.42784;-76.50227
10/30/2018 15:21			0.004	0.004	
10/30/2018 15:22			0.004	0.004	
10/30/2018 15:23			0.004	0.009	
10/30/2018 15:24			0.004	0.004	
10/30/2018 15:25	12.7	83	0.004	0.005	
10/30/2018 15:26			0.004	0.005	42.42819;-76.5022
10/30/2018 15:27			0.004	0.004	
10/30/2018 15:28			0.004	0.005	
10/30/2018 15:29			0.004	0.004	
10/30/2018 15:30	12.7	104.3	0.004	0.004	
10/30/2018 15:30					42.42823;-76.5022
10/30/2018 15:31			0.004	0.005	
10/30/2018 15:32			0.004	0.004	
10/30/2018 15:33			0.004	0.004	
10/30/2018 15:34			0.004	0.004	
10/30/2018 15:35	12.7	79	0.004	0.004	
10/30/2018 15:35					42.42793;-76.50242
10/30/2018 15:36			0.004	0.004	
10/30/2018 15:37			0.004	0.006	
10/30/2018 15:38			0.004	0.011	
10/30/2018 15:39			0.004	0.013	
10/30/2018 15:40	12.7	97.2	0.004	0.005	42.42807;-76.50231
10/30/2018 15:41			0.004	0.015	
10/30/2018 15:42			0.004	0.005	
10/30/2018 15:43			0.004	0.004	
10/30/2018 15:44			0.004	0.005	
10/30/2018 15:45	12.7	101.2	0.004	0.005	42.42808;-76.50228
10/30/2018 15:46			0.004	0.005	
10/30/2018 15:47			0.004	0.005	
10/30/2018 15:48			0.004	0.005	
10/30/2018 15:49			0.004	0.004	
10/30/2018 15:50	12.7	77.9	0.004	0.004	42.428;-76.50233
10/30/2018 15:51			0.004	0.004	
10/30/2018 15:52			0.004	0.004	
10/30/2018 15:53			0.004	0.005	
10/30/2018 15:54			0.004	0.004	
10/30/2018 15:55	12.7	77.9	0.004	0.005	42.42798;-76.50235
10/30/2018 15:56			0.004	0.025	
10/30/2018 15:57			0.004	0.006	
10/30/2018 15:58			0.004	0.005	
10/30/2018 15:59			0.004	0.004	
10/30/2018 16:00	12.7	77.9	0.004	0.005	42.42804;-76.50238
10/30/2018 16:01			0.004	0.006	
10/30/2018 16:02			0.004	0.005	
10/30/2018 16:03			0.004	0.004	
10/30/2018 16:04			0.004	0.004	
10/30/2018 16:05	12.7	84	0.004	0.004	42.42799;-76.50231
10/30/2018 16:06			0.004	0.004	
10/30/2018 16:07			0.004	0.004	
10/30/2018 16:08			0.004	0.004	
10/30/2018 16:09			0.004	0.004	
10/30/2018 16:10	12.7	99.2	0.004	0.004	42.42802;-76.50236
10/30/2018 16:11			0.004	0.004	
10/30/2018 16:12			0.004	0.004	
10/30/2018 16:13			0.004	0.004	
10/30/2018 16:14			0.004	0.004	
10/30/2018 16:15	12.7	77.9	0.004	0.004	42.42808;-76.50233
10/30/2018 16:16			0.004	0.004	
10/30/2018 16:17			0.004	0.004	
10/30/2018 16:18			0.004	0.004	
10/30/2018 16:19			0.004	0.004	
10/30/2018 16:20	12.7	80	0.004	0.004	42.42808;-76.50233
10/30/2018 16:21			0.004	0.004	
10/30/2018 16:22			0.004	0.004	
10/30/2018 16:23			0.004	0.004	
10/30/2018 16:24			0.004	0.004	
10/30/2018 16:25	12.7	87	0.004	0.003	42.42796;-76.50237
10/30/2018 16:26			0.004	0.004	
10/30/2018 16:27			0.004	0.004	
10/30/2018 16:28			0.004	0.004	
10/30/2018 16:29			0.004	0.004	
10/30/2018 16:30	12.7	79	0.004	0.004	42.42804;-76.50228
10/30/2018 16:31			0.004	0.004	
10/30/2018 16:32			0.004	0.004	
10/30/2018 16:33			0.004	0.003	
10/30/2018 16:34			0.004	0.003	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/30/2018 16:35	12.7	93.1	0.004	0.003	42.42803;-76.50239
10/30/2018 16:36			0.004	0.003	
10/30/2018 16:37			0.004	0.003	
10/30/2018 16:38			0.004	0.004	
10/30/2018 16:39			0.004	0.003	
10/30/2018 16:40	12.7	80	0.004	0.003	42.42798;-76.50233
10/30/2018 16:41			0.004	0.003	
10/30/2018 16:42			0.004	0.003	
10/30/2018 16:43			0.004	0.003	
10/30/2018 16:44			0.004	0.003	
10/30/2018 16:45	12.7	96.2	0.004	0.003	42.42804;-76.50236
10/30/2018 16:46			0.004	0.003	
10/30/2018 16:47			0.004	0.003	
10/30/2018 16:48			0.004	0.004	
10/30/2018 16:49			0.004	0.016	
10/30/2018 16:50	12.7	84	0.004	0.003	42.42808;-76.50243
10/30/2018 16:51			0.004	0.003	
10/30/2018 16:52			0.004	0.003	
10/30/2018 16:53			0.004	0.003	
10/30/2018 16:54			0.005	0.003	
10/30/2018 16:55	12.7	88.1	0.005	0.006	42.428;-76.50233
10/30/2018 16:56			0.005	0.003	
10/30/2018 16:57			0.005	0.003	
10/30/2018 16:58			0.005	0.003	
10/30/2018 16:59			0.005	0.003	
10/30/2018 17:00	12.7	101.2	0.005	0.003	42.42806;-76.50235
10/30/2018 17:01			0.005	0.003	
10/30/2018 17:02			0.005	0.003	
10/30/2018 17:03			0.005	0.003	
10/30/2018 17:04			0.005	0.003	
10/30/2018 17:05	12.7	79	0.005	0.003	42.42808;-76.50235
10/30/2018 17:06			0.005	0.003	
10/30/2018 17:07			0.005	0.003	
10/30/2018 17:08			0.005	0.003	
10/30/2018 17:09			0.005	0.003	
10/30/2018 17:10	12.7	84	0.005	0.003	42.42804;-76.50238
10/30/2018 17:11			0.005	0.003	
10/30/2018 17:12			0.005	0.005	
10/30/2018 17:13			0.005	0.003	
10/30/2018 17:14			0.005	0.003	
10/30/2018 17:15	12.6	79	0.005	0.003	42.42805;-76.50236
10/30/2018 17:16			0.005	0.003	
10/30/2018 17:17			0.005	0.004	
10/30/2018 17:18			0.005	0.003	
10/30/2018 17:19			0.005	0.003	
10/30/2018 17:20	12.6	84	0.005	0.003	42.42802;-76.50237
10/30/2018 17:21			0.005	0.003	
10/30/2018 17:22			0.005	0.003	
10/30/2018 17:23			0.005	0.003	
10/30/2018 17:24			0.005	0.003	
10/30/2018 17:25	12.6	81	0.005	0.006	42.42801;-76.5024
10/30/2018 17:26			0.005	0.003	
10/30/2018 17:27			0.005	0.003	
10/30/2018 17:28			0.005	0.003	
10/30/2018 17:29			0.005	0.003	
10/30/2018 17:30	12.6	118.4	0.005	0.003	
10/30/2018 17:30					42.42799;-76.50232
10/30/2018 17:31			0.005	0.003	
10/30/2018 17:32			0.005	0.003	
10/30/2018 17:33			0.005	0.003	
10/30/2018 17:34			0.005	0.003	
10/30/2018 17:35	12.6	79	0.005	0.003	
10/30/2018 17:35					42.42806;-76.50238
10/30/2018 17:36			0.005	0.003	
10/30/2018 17:37			0.005	0.003	
10/30/2018 17:38			0.005	0.003	
10/30/2018 17:39			0.005	0.003	
10/30/2018 17:40	12.6	82	0.005	0.005	
10/30/2018 17:40					42.42801;-76.50235
10/30/2018 17:41			0.005	0.003	
10/30/2018 17:42			0.005	0.003	
10/30/2018 17:43			0.005	0.003	
10/30/2018 17:44			0.005	0.003	
10/30/2018 17:45	12.6	95.1	0.005	0.003	
10/30/2018 17:45					42.42807;-76.50233
10/30/2018 17:46			0.005	0.003	
10/30/2018 17:47			0.005	0.003	
10/30/2018 17:48			0.005	0.003	
10/30/2018 17:49			0.005	0.003	
10/30/2018 17:50	12.6	79	0.005	0.003	
10/30/2018 17:50					42.42803;-76.50246
10/30/2018 17:51			0.005	0.003	
10/30/2018 17:52			0.005	0.003	
10/30/2018 17:53			0.005	0.003	
10/30/2018 17:54			0.005	0.003	
10/30/2018 17:55	12.6	85	0.005	0.003	
10/30/2018 17:55					42.4281;-76.50227
10/30/2018 17:56			0.005	0.003	
10/30/2018 17:57			0.005	0.003	
10/30/2018 17:58			0.005	0.003	
10/30/2018 17:59			0.005	0.003	
10/30/2018 18:00	12.6	79	0.005	0.003	
10/30/2018 18:00					42.42808;-76.50235
10/30/2018 18:01			0.005	0.003	
10/30/2018 18:02			0.005	0.003	
10/30/2018 18:03			0.005	0.003	
10/30/2018 18:04			0.005	0.003	
10/30/2018 18:05	12.6	91.1	0.005	0.003	
10/30/2018 18:05					42.42798;-76.50233
10/30/2018 18:06			0.005	0.003	
10/30/2018 18:07			0.005	0.003	
10/30/2018 18:08			0.005	0.003	
10/30/2018 18:09			0.005	0.003	
10/30/2018 18:10	12.6	81	0.005	0.003	
10/30/2018 18:10					42.42808;-76.50229
10/30/2018 18:11			0.005	0.003	
10/30/2018 18:12			0.005	0.002	
10/30/2018 18:13			0.005	0.003	
10/30/2018 18:14			0.005	0.004	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/30/2018 18:15	12.6	81	0.005	0.008	
10/30/2018 18:15					42.428;-76.5023
10/30/2018 18:16			0.005	0.003	
10/30/2018 18:17			0.005	0.003	
10/30/2018 18:18			0.005	0.003	
10/30/2018 18:19			0.005	0.003	
10/30/2018 18:20	12.6	82	0.005	0.003	
10/30/2018 18:20					42.42799;-76.50233
10/30/2018 18:21			0.005	0.003	
10/30/2018 18:22			0.005	0.002	
10/30/2018 18:23			0.005	0.003	
10/30/2018 18:24			0.005	0.003	
10/30/2018 18:25	12.5	79	0.005	0.002	
10/30/2018 18:25					42.42805;-76.50233
10/30/2018 18:26			0.005	0.002	
10/30/2018 18:27			0.005	0.002	
10/30/2018 18:28			0.005	0.003	
10/30/2018 18:29			0.005	0.002	
10/30/2018 18:30	12.6	83	0.005	0.002	
10/30/2018 18:30					42.42816;-76.50228
10/30/2018 18:31			0.005	0.002	
10/30/2018 18:32			0.005	0.002	
10/30/2018 18:33			0.005	0.002	
10/30/2018 18:34			0.005	0.002	
10/30/2018 18:35	12.5	82	0.005	0.003	
10/30/2018 18:35					42.42825;-76.50237
10/30/2018 18:36			0.005	0.003	
10/30/2018 18:37			0.005	0.002	
10/30/2018 18:38			0.005	0.003	
10/30/2018 18:39			0.005	0.003	
10/30/2018 18:40	12.5	95.1	0.005	0.003	
10/30/2018 18:40					42.42812;-76.50237
10/30/2018 18:41			0.005	0.002	
10/30/2018 18:42			0.005	0.002	
10/30/2018 18:43			0.005	0.002	
10/30/2018 18:44			0.005	0.002	
10/30/2018 18:45	12.5	83	0.005	0.002	
10/30/2018 18:45					42.42809;-76.5023
10/30/2018 18:46			0.005	0.003	
10/30/2018 18:47			0.005	0.002	
10/30/2018 18:48			0.005	0.003	
10/30/2018 18:49			0.005	0.002	
10/30/2018 18:50	12.5	80	0.005	0.002	
10/30/2018 18:50					42.42802;-76.50233
10/30/2018 18:51			0.005	0.002	
10/30/2018 18:52			0.005	0.006	
10/30/2018 18:53			0.005	0.004	
10/30/2018 18:54			0.005	0.002	
10/30/2018 18:55	12.5	83	0.005	0.002	
10/30/2018 18:55					42.42805;-76.50233
10/30/2018 18:56			0.005	0.002	
10/30/2018 18:57			0.005	0.002	
10/30/2018 18:58			0.005	0.002	
10/30/2018 18:59			0.005	0.002	
10/30/2018 19:00	12.5	82	0.005	0.003	
10/30/2018 19:00					42.42797;-76.50237
10/30/2018 19:01			0.005	0.002	
10/30/2018 19:02			0.005	0.004	
10/30/2018 19:03			0.005	0.002	
10/30/2018 19:04			0.005	0.003	
10/30/2018 19:05	12.5	80	0.005	0.003	
10/30/2018 19:05					42.42809;-76.50238
10/30/2018 19:06			0.005	0.003	
10/30/2018 19:07			0.005	0.002	
10/30/2018 19:08			0.005	0.002	
10/30/2018 19:09			0.005	0.002	
10/30/2018 19:10	12.5	82	0.005	0.002	
10/30/2018 19:10					42.42803;-76.50234
10/30/2018 19:11			0.005	0.002	
10/30/2018 19:12			0.005	0.003	
10/30/2018 19:13			0.005	0.002	
10/30/2018 19:14			0.005	0.003	
10/30/2018 19:15	12.4	140.7	0.005	0.003	
10/30/2018 19:15					42.42795;-76.50224
10/30/2018 19:16			0.005	0.003	
10/30/2018 19:17			0.005	0.007	
10/30/2018 19:18			0.005	0.007	
10/30/2018 19:19			0.005	0.003	
10/30/2018 19:20	12.5	80	0.005	0.004	
10/30/2018 19:20					42.428;-76.50235
10/30/2018 19:21			0.005	0.004	
10/30/2018 19:22			0.005	0.003	
10/30/2018 19:23			0.005	0.002	
10/30/2018 19:24			0.005	0.005	
10/30/2018 19:25	12.5	107.3	0.005	0.005	42.42804;-76.50231
10/30/2018 19:26			0.005	0.003	
10/30/2018 19:27			0.005	0.004	
10/30/2018 19:28			0.005	0.003	
10/30/2018 19:29			0.005	0.003	
10/30/2018 19:30	12.5	81	0.005	0.003	42.42799;-76.50237
10/30/2018 19:31			0.006	0.003	
10/30/2018 19:32			0.006	0.003	
10/30/2018 19:33			0.006	0.003	
10/30/2018 19:34			0.006	0.003	
10/30/2018 19:35	12.5	85	0.006	0.003	42.42801;-76.5023
10/30/2018 19:36			0.006	0.005	
10/30/2018 19:37			0.006	0.003	
10/30/2018 19:38			0.006	0.003	
10/30/2018 19:39			0.006	0.003	
10/30/2018 19:40	12.5	82	0.006	0.003	42.42801;-76.50233
10/30/2018 19:41			0.006	0.003	
10/30/2018 19:42			0.006	0.003	
10/30/2018 19:43			0.006	0.003	
10/30/2018 19:44			0.006	0.003	
10/30/2018 19:45	12.5	82	0.006	0.003	
10/30/2018 19:45					42.42799;-76.50233
10/30/2018 19:46			0.006	0.007	
10/30/2018 19:47			0.006	0.005	
10/30/2018 19:48			0.006	0.003	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/30/2018 19:49			0.006	0.003	
10/30/2018 19:50	12.4	82	0.006	0.003	
10/30/2018 19:50					42.42796;-76.50235
10/30/2018 19:51			0.006	0.003	
10/30/2018 19:52			0.006	0.003	
10/30/2018 19:53			0.006	0.003	
10/30/2018 19:54			0.006	0.003	
10/30/2018 19:55	12.4	81	0.006	0.003	
10/30/2018 19:55					42.42803;-76.50233
10/30/2018 19:56			0.006	0.006	
10/30/2018 19:57			0.006	0.004	
10/30/2018 19:58			0.006	0.004	
10/30/2018 19:59			0.006	0.004	
10/30/2018 20:00	12.4	91.1	0.006	0.006	
10/30/2018 20:00					42.42805;-76.50233
10/30/2018 20:01			0.006	0.003	
10/30/2018 20:02			0.006	0.003	
10/30/2018 20:03			0.006	0.004	
10/30/2018 20:04			0.006	0.003	
10/30/2018 20:05	12.4	80	0.006	0.003	
10/30/2018 20:05					42.42799;-76.50233
10/30/2018 20:06			0.006	0.004	
10/30/2018 20:07			0.006	0.003	
10/30/2018 20:08			0.006	0.003	
10/30/2018 20:09			0.006	0.003	
10/30/2018 20:10	12.4	81	0.006	0.006	
10/30/2018 20:10					42.42803;-76.50239
10/30/2018 20:11			0.006	0.006	
10/30/2018 20:12			0.006	0.003	
10/30/2018 20:13			0.006	0.004	
10/30/2018 20:14			0.006	0.005	
10/30/2018 20:15	12.4	96.2	0.006	0.003	
10/30/2018 20:15					42.42803;-76.5024
10/30/2018 20:16			0.006	0.004	
10/30/2018 20:17			0.006	0.005	
10/30/2018 20:18			0.006	0.003	
10/30/2018 20:19			0.006	0.01	
10/30/2018 20:20	12.4	82	0.006	0.005	
10/30/2018 20:21			0.006	0.003	
10/30/2018 20:22			0.006	0.003	
10/30/2018 20:23			0.006	0.003	
10/30/2018 20:24			0.006	0.01	
10/30/2018 20:25	12.3	68.8	0.006	0.004	
10/30/2018 20:26			0.006	0.004	
10/30/2018 20:27			0.006	0.004	
10/30/2018 20:28			0.006	0.003	
10/30/2018 20:29			0.006	0.003	
10/30/2018 20:30	12.3	69.8	0.006	0.004	
10/30/2018 20:31			0.006	0.003	
10/30/2018 20:32			0.006	0.003	
10/30/2018 20:33			0.006	0.003	
10/30/2018 20:34			0.006	0.003	
10/30/2018 20:35	12.4	67.8	0.006	0.004	
10/30/2018 20:36			0.006	0.004	
10/30/2018 20:37			0.006	0.003	
10/30/2018 20:38			0.006	0.006	
10/30/2018 20:39			0.006	0.003	
10/30/2018 20:40	12.4	67.8	0.006	0.003	
10/30/2018 20:41			0.006	0.003	
10/30/2018 20:42			0.006	0.003	
10/31/2018 12:04	13	98.2			
10/31/2018 12:05	13	94.1			
10/31/2018 12:07			0	0.015	
10/31/2018 12:08			0	0.013	
10/31/2018 12:09			0	0.012	
10/31/2018 12:10	12.8	76.9	0	0.012	
10/31/2018 12:10					42.42848;-76.50164
10/31/2018 12:11			0	0.012	
10/31/2018 12:12			0	0.012	
10/31/2018 12:13			0	0.012	
10/31/2018 12:14			0	0.012	
10/31/2018 12:15	12.8	82	0	0.012	
10/31/2018 12:15					42.4285;-76.50165
10/31/2018 12:16			0	0.012	
10/31/2018 12:17			0	0.012	
10/31/2018 12:18			0	0.013	
10/31/2018 12:19			0	0.014	
10/31/2018 12:20	12.8	77.9	0	0.015	
10/31/2018 12:20					42.42857;-76.50163
10/31/2018 12:21			0	0.013	
10/31/2018 12:22			0	0.013	
10/31/2018 12:23			0	0.012	
10/31/2018 12:24			0	0.012	
10/31/2018 12:25	12.8	79	0	0.012	
10/31/2018 12:25					42.42839;-76.50168
10/31/2018 12:26			0.001	0.013	
10/31/2018 12:27			0.001	0.012	
10/31/2018 12:28			0.001	0.012	
10/31/2018 12:29			0.001	0.012	
10/31/2018 12:30	12.8	80	0.001	0.012	
10/31/2018 12:30					42.4285;-76.5016
10/31/2018 12:31			0.001	0.012	
10/31/2018 12:32			0.001	0.012	
10/31/2018 12:33			0.001	0.012	
10/31/2018 12:34			0.001	0.012	
10/31/2018 12:35	12.8	82	0.001	0.011	
10/31/2018 12:35					42.42846;-76.50165
10/31/2018 12:36			0.001	0.011	
10/31/2018 12:37			0.001	0.011	
10/31/2018 12:38			0.001	0.011	
10/31/2018 12:39			0.001	0.011	
10/31/2018 12:40	12.8	77.9	0.001	0.011	
10/31/2018 12:40					42.42846;-76.50166
10/31/2018 12:41			0.001	0.011	
10/31/2018 12:42			0.001	0.011	
10/31/2018 12:43			0.001	0.011	
10/31/2018 12:44			0.001	0.011	
10/31/2018 12:45	12.8	76.9	0.001	0.011	
10/31/2018 12:45					42.4284;-76.50164

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/31/2018 12:46			0.001	0.012	
10/31/2018 12:47			0.001	0.012	
10/31/2018 12:48			0.001	0.012	
10/31/2018 12:49			0.001	0.012	
10/31/2018 12:50	12.8	81	0.001	0.011	
10/31/2018 12:50					42.42839;-76.50163
10/31/2018 12:51			0.001	0.011	
10/31/2018 12:52			0.001	0.011	
10/31/2018 12:53			0.001	0.012	
10/31/2018 12:54			0.001	0.011	
10/31/2018 12:55	12.8	88.1	0.001	0.011	
10/31/2018 12:55					42.42844;-76.50161
10/31/2018 12:56			0.001	0.011	
10/31/2018 12:57			0.001	0.011	
10/31/2018 12:58			0.001	0.011	
10/31/2018 12:59			0.001	0.011	
10/31/2018 13:00	12.8	89.1	0.001	0.011	
10/31/2018 13:00					42.4285;-76.50162
10/31/2018 13:01			0.001	0.011	
10/31/2018 13:02			0.001	0.011	
10/31/2018 13:03			0.001	0.01	
10/31/2018 13:04			0.001	0.011	
10/31/2018 13:05	12.8	72.9	0.001	0.011	
10/31/2018 13:05					42.42847;-76.50159
10/31/2018 13:06			0.001	0.011	
10/31/2018 13:07			0.001	0.011	
10/31/2018 13:08			0.001	0.011	
10/31/2018 13:09			0.002	0.011	
10/31/2018 13:10	12.8	76.9	0.002	0.011	
10/31/2018 13:10					42.42849;-76.50164
10/31/2018 13:11			0.002	0.011	
10/31/2018 13:12			0.002	0.011	
10/31/2018 13:13			0.002	0.011	
10/31/2018 13:14			0.002	0.011	
10/31/2018 13:15	12.8	79	0.002	0.011	
10/31/2018 13:15					42.42841;-76.50161
10/31/2018 13:16			0.002	0.011	
10/31/2018 13:17			0.002	0.011	
10/31/2018 13:18			0.002	0.011	
10/31/2018 13:19			0.002	0.011	
10/31/2018 13:20	12.8	81	0.002	0.011	
10/31/2018 13:20					42.42849;-76.50169
10/31/2018 13:21			0.002	0.011	
10/31/2018 13:22			0.002	0.01	
10/31/2018 13:23			0.002	0.01	
10/31/2018 13:24			0.002	0.01	
10/31/2018 13:25	12.8	77.9	0.002	0.01	
10/31/2018 13:25					42.42851;-76.50172
10/31/2018 13:26			0.002	0.01	
10/31/2018 13:27			0.002	0.01	
10/31/2018 13:28			0.002	0.01	
10/31/2018 13:29			0.002	0.01	
10/31/2018 13:30	12.8	77.9	0.002	0.01	
10/31/2018 13:30					42.42849;-76.50172
10/31/2018 13:31			0.002	0.011	
10/31/2018 13:32			0.002	0.011	
10/31/2018 13:33			0.002	0.011	
10/31/2018 13:34			0.002	0.011	
10/31/2018 13:35	12.7	79	0.002	0.011	
10/31/2018 13:35					42.42855;-76.50166
10/31/2018 13:36			0.002	0.011	
10/31/2018 13:37			0.002	0.011	
10/31/2018 13:38			0.002	0.011	
10/31/2018 13:39			0.002	0.01	
10/31/2018 13:40	12.7	79	0.002	0.01	
10/31/2018 13:40					42.42852;-76.50169
10/31/2018 13:41			0.002	0.01	
10/31/2018 13:42			0.002	0.01	
10/31/2018 13:43			0.002	0.01	
10/31/2018 13:44			0.002	0.01	
10/31/2018 13:45	12.7	87	0.002	0.01	
10/31/2018 13:45					42.42858;-76.50175
10/31/2018 13:46			0.002	0.011	
10/31/2018 13:47			0.002	0.01	
10/31/2018 13:48			0.002	0.01	
10/31/2018 13:49			0.002	0.012	
10/31/2018 13:50	12.7	95.1	0.002	0.01	
10/31/2018 13:50					42.42853;-76.50185
10/31/2018 13:51			0.002	0.01	
10/31/2018 13:52			0.002	0.01	
10/31/2018 13:53			0.002	0.01	
10/31/2018 13:54			0.003	0.01	
10/31/2018 13:55	12.7	77.9	0.003	0.011	
10/31/2018 13:55					42.42857;-76.50168
10/31/2018 13:56			0.003	0.01	
10/31/2018 13:57			0.003	0.011	
10/31/2018 13:58			0.003	0.01	
10/31/2018 13:59			0.003	0.01	
10/31/2018 14:00	12.7	79	0.003	0.01	
10/31/2018 14:00					42.42855;-76.50164
10/31/2018 14:01			0.003	0.01	
10/31/2018 14:02			0.003	0.01	
10/31/2018 14:03			0.003	0.01	
10/31/2018 14:04			0.003	0.01	
10/31/2018 14:05	12.7	76.9		0.01	
10/31/2018 14:05					42.42854;-76.50165
10/31/2018 14:10	12.7	89.1			
10/31/2018 14:10					42.42854;-76.50161
10/31/2018 14:15	12.7	77.9			42.42854;-76.50164
10/31/2018 14:20	12.7	89.1			42.42853;-76.50163
10/31/2018 14:25	12.7	79			42.42863;-76.50169
10/31/2018 14:30	12.7	89.1			
10/31/2018 14:30					42.42865;-76.50172
10/31/2018 14:35	12.7	76.9			
10/31/2018 14:35					42.42867;-76.5017
10/31/2018 14:40	12.7	82			
10/31/2018 14:40					42.4286;-76.50164
10/31/2018 14:45	12.7	77.9			
10/31/2018 14:45					42.42859;-76.50163

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/31/2018 14:50	12.7	79			42.42856;-76.50164
10/31/2018 14:55	12.7	79			42.42861;-76.50166
10/31/2018 15:00	12.7	84			42.42865;-76.50161
10/31/2018 15:05	12.7	79			42.42858;-76.50161
10/31/2018 15:10	12.7	92.1			42.42863;-76.50146
10/31/2018 15:15	12.7	81			42.4285;-76.50159
10/31/2018 15:20	12.7	88.1			42.42847;-76.50162
10/31/2018 15:25	12.7	77.9			42.42849;-76.50156
10/31/2018 15:30	12.7	79			42.42757;-76.50185
10/31/2018 15:35	12.7	82			42.42762;-76.50188
10/31/2018 15:40	12.7	81			42.42755;-76.50194
10/31/2018 15:45	12.7	83			42.42756;-76.50195
10/31/2018 15:50	12.7	83			42.42762;-76.50192
10/31/2018 15:55	12.7	90.1			42.42755;-76.50202
10/31/2018 16:00	12.6	79			42.42754;-76.50198
10/31/2018 16:05	12.6	80			42.42754;-76.50195
10/31/2018 16:10	12.6	91.1			42.42754;-76.50192
10/31/2018 16:15	12.7	80			42.42756;-76.50193
10/31/2018 16:20	12.7	81			42.42754;-76.50193
10/31/2018 16:25	12.6	80			
10/31/2018 16:25					42.42751;-76.50195
10/31/2018 16:30	12.6	79			42.42752;-76.50194
10/31/2018 16:35	12.6	80			42.42755;-76.50196
10/31/2018 16:40	12.6	81			
10/31/2018 16:40					42.42752;-76.50195
10/31/2018 16:45	12.6	82			
10/31/2018 16:45					42.42756;-76.50195
10/31/2018 16:50	12.6	95.1			
10/31/2018 16:50					42.42757;-76.50197
10/31/2018 16:55	12.6	84			42.42756;-76.50197
10/31/2018 17:00	12.6	85			
10/31/2018 17:00					42.42757;-76.50204
10/31/2018 17:05	12.6	82			
10/31/2018 17:05					42.42759;-76.50202
10/31/2018 17:10	12.6	82			
10/31/2018 17:10					42.42757;-76.50202
10/31/2018 17:15	12.6	80			
10/31/2018 17:15					42.42758;-76.50204
10/31/2018 17:20	12.6	80			
10/31/2018 17:20					42.4276;-76.50201
10/31/2018 17:25	12.6	101.2			
10/31/2018 17:25					42.42762;-76.50196
10/31/2018 17:30	12.6	86			
10/31/2018 17:30					42.42753;-76.5023
10/31/2018 17:35	12.5	92.1			
10/31/2018 17:35					42.42759;-76.50216
10/31/2018 17:40	12.6	81			42.4276;-76.50201
10/31/2018 17:45	12.6	82			42.42762;-76.50203
10/31/2018 17:50	12.6	81			42.4276;-76.50198
10/31/2018 17:55	12.6	80			42.42757;-76.50198
10/31/2018 18:00	12.6	81			42.42753;-76.50198
10/31/2018 18:05	12.6	81			42.42764;-76.50198
10/31/2018 18:10	12.6	80			42.42762;-76.50202
10/31/2018 18:15	12.6	91.1			42.42759;-76.502
10/31/2018 18:20	12.6	81			
10/31/2018 18:20					42.42752;-76.50198
10/31/2018 18:25	12.6	83			42.42745;-76.50198
10/31/2018 18:30	12.6	81			42.42747;-76.50197
10/31/2018 18:35	12.6	92.1			42.4275;-76.50197
10/31/2018 18:40	12.5	97.2			
10/31/2018 18:40					42.42749;-76.50202
10/31/2018 18:45	12.5	83			42.42751;-76.50196
10/31/2018 18:50	12.5	80			42.42756;-76.50196
10/31/2018 18:55	12.5	80			42.42756;-76.50198
10/31/2018 19:00	12.5	85			42.42754;-76.50197
10/31/2018 19:05	12.5	83			42.42753;-76.50198
10/31/2018 19:10	12.5	82			42.42756;-76.502
10/31/2018 19:15	12.5	95.1			42.42757;-76.50196
10/31/2018 19:20	12.5	82			42.4275;-76.50201
10/31/2018 19:25	12.5	82			42.42754;-76.50199
10/31/2018 19:30	12.6	84			42.42758;-76.50195
10/31/2018 19:35	12.6	80			42.42752;-76.50202
10/31/2018 19:36			0	0.018	
10/31/2018 19:37			0	0.016	
10/31/2018 19:38			0	0.016	
10/31/2018 19:39			0	0.016	
10/31/2018 19:40	12.5	82	0	0.016	42.42755;-76.50198
10/31/2018 19:41			0	0.016	
10/31/2018 19:42			0	0.016	
10/31/2018 19:43			0	0.016	
10/31/2018 19:44			0	0.016	
10/31/2018 19:45	12.5	81	0	0.016	42.42756;-76.50193
10/31/2018 19:46			0	0.016	
10/31/2018 19:47			0	0.016	
10/31/2018 19:48			0	0.016	
10/31/2018 19:49			0	0.016	
10/31/2018 19:50	12.5	81	0	0.016	42.42754;-76.50193
10/31/2018 19:51			0.001	0.016	
10/31/2018 19:52			0.001	0.016	
10/31/2018 19:53			0.001	0.016	
10/31/2018 19:54			0.001	0.016	
10/31/2018 19:55	12.5	82	0.001	0.016	42.42749;-76.50192
10/31/2018 19:56			0.001	0.016	
10/31/2018 19:57			0.001	0.016	
10/31/2018 19:58			0.001	0.016	
10/31/2018 19:59			0.001	0.016	
10/31/2018 20:00	12.5	80	0.001	0.016	42.4275;-76.50192
10/31/2018 20:01			0.001	0.016	
10/31/2018 20:02			0.001	0.016	
10/31/2018 20:03			0.001	0.02	
10/31/2018 20:04			0.001	0.018	
10/31/2018 20:05	12.5	94.1	0.001	0.016	42.42752;-76.50193
10/31/2018 20:06			0.001	0.016	
10/31/2018 20:07			0.001	0.017	
10/31/2018 20:08			0.001	0.02	
10/31/2018 20:09			0.001	0.016	
10/31/2018 20:10	12.5	81	0.001	0.016	42.42754;-76.50198
10/31/2018 20:11			0.001	0.016	
10/31/2018 20:12			0.001	0.016	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/31/2018 20:13			0.001	0.016	
10/31/2018 20:14			0.001	0.016	
10/31/2018 20:15	12.5	90.1	0.001	0.016	42.42747;-76.50194
10/31/2018 20:16			0.001	0.016	
10/31/2018 20:17			0.001	0.016	
10/31/2018 20:18			0.001	0.016	
10/31/2018 20:19			0.001	0.016	
10/31/2018 20:20	12.5	90.1	0.001	0.016	42.4275;-76.50196
10/31/2018 20:21			0.002	0.016	
10/31/2018 20:22			0.002	0.016	
10/31/2018 20:23			0.002	0.017	
10/31/2018 20:24			0.002	0.017	
10/31/2018 20:25	12.5	81	0.002	0.016	42.42752;-76.50194
10/31/2018 20:26			0.002	0.016	
10/31/2018 20:27			0.002	0.016	
10/31/2018 20:28			0.002	0.016	
10/31/2018 20:29			0.002	0.016	
10/31/2018 20:30	12.5	91.1	0.002	0.016	
10/31/2018 20:30					42.42753;-76.50196
10/31/2018 20:31			0.002	0.016	
10/31/2018 20:32			0.002	0.016	
10/31/2018 20:33			0.002	0.016	
10/31/2018 20:34			0.002	0.016	
10/31/2018 20:35	12.4	82	0.002	0.016	
10/31/2018 20:35					42.42753;-76.50193
10/31/2018 20:36			0.002	0.016	
10/31/2018 20:37			0.002	0.016	
10/31/2018 20:38			0.002	0.018	
10/31/2018 20:39			0.002	0.017	
10/31/2018 20:40	12.4	83	0.002	0.016	
10/31/2018 20:40					42.42765;-76.50198
10/31/2018 20:41			0.002	0.016	
10/31/2018 20:42			0.002	0.016	
10/31/2018 20:43			0.002	0.016	
10/31/2018 20:44			0.002	0.016	
10/31/2018 20:45	12.4	87	0.002	0.016	
10/31/2018 20:45					42.42756;-76.50195
10/31/2018 20:46			0.002	0.02	
10/31/2018 20:47			0.002	0.018	
10/31/2018 20:48			0.002	0.016	
10/31/2018 20:49			0.002	0.016	
10/31/2018 20:50	12.4	85	0.003	0.016	
10/31/2018 20:50					42.42758;-76.50194
10/31/2018 20:51			0.003	0.016	
10/31/2018 20:52			0.003	0.016	
10/31/2018 20:53			0.003	0.016	
10/31/2018 20:54			0.003	0.016	
10/31/2018 20:55	12.4	82	0.003	0.016	
10/31/2018 20:55					42.42759;-76.50192
10/31/2018 20:56			0.003	0.016	
10/31/2018 20:57			0.003	0.016	
10/31/2018 20:58			0.003	0.016	
10/31/2018 20:59			0.003	0.016	
10/31/2018 21:00	12.4	85	0.003	0.018	
10/31/2018 21:00					42.42752;-76.50191
10/31/2018 21:01			0.003	0.016	
10/31/2018 21:02			0.003	0.016	
10/31/2018 21:03			0.003	0.016	
10/31/2018 21:04			0.003	0.016	
10/31/2018 21:05	12.4	80	0.003	0.016	
10/31/2018 21:05					42.42755;-76.50191
10/31/2018 21:06			0.003	0.016	
10/31/2018 21:07			0.003	0.016	
10/31/2018 21:08			0.003	0.016	
10/31/2018 21:09			0.003	0.016	
10/31/2018 21:10	12.5	81		0.017	
10/31/2018 21:10					42.42754;-76.50194
10/31/2018 21:15	12.6	90.1			
10/31/2018 21:15					42.43213;-76.4972
11/1/2018 11:55	13.1	101.2			
11/1/2018 11:58			0	0.02	
11/1/2018 11:59			0	0.021	
11/1/2018 12:00	12.9	95.1	0	0.021	
11/1/2018 12:00					42.42849;-76.50153
11/1/2018 12:01			0	0.02	
11/1/2018 12:02			0	0.02	
11/1/2018 12:03			0	0.021	
11/1/2018 12:04				0.02	
11/1/2018 12:05	12.9	100.2			
11/1/2018 12:05					42.42855;-76.50146
11/1/2018 12:10	12.9	82			42.42846;-76.5015
11/1/2018 12:15	13	75.9			
11/1/2018 12:15					42.4285;-76.50153
11/1/2018 12:20	12.9	74.9			
11/1/2018 12:20					42.42851;-76.50152
11/1/2018 12:25	12.9	82			42.4285;-76.50149
11/1/2018 12:30	12.9	75.9			
11/1/2018 12:30					42.42852;-76.50153
11/1/2018 12:35	12.9	79			
11/1/2018 12:35					42.42852;-76.50152
11/1/2018 12:40	12.9	86			42.4285;-76.50153
11/1/2018 12:45	12.9	95.1			
11/1/2018 12:45					42.42849;-76.50152
11/1/2018 12:50	12.9	80			
11/1/2018 12:50					42.42853;-76.50152
11/1/2018 12:55	12.9	81			42.42853;-76.50151
11/1/2018 13:00	12.9	75.9			
11/1/2018 13:00					42.42861;-76.50154
11/1/2018 13:05	12.9	76.9			
11/1/2018 13:05					42.4286;-76.5015
11/1/2018 13:10	12.9	82			42.42857;-76.50152
11/1/2018 13:15	12.9	87			
11/1/2018 13:15					42.42857;-76.5015
11/1/2018 13:20	12.9	88.1			
11/1/2018 13:20					42.42859;-76.50148
11/1/2018 13:25	12.9	85			42.4286;-76.5015
11/1/2018 13:30	12.9	76.9			
11/1/2018 13:30					42.42858;-76.50153
11/1/2018 13:35	12.9	77.9			

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/1/2018 13:35					42.42852;-76.50144
11/1/2018 13:40	12.9	87			42.42855;-76.5015
11/1/2018 13:45	12.9	87			
11/1/2018 13:45					42.42861;-76.50148
11/1/2018 13:50	12.9	76.9			
11/1/2018 13:50					42.42859;-76.50141
11/1/2018 13:55	12.8	76.9			42.42856;-76.50143
11/1/2018 14:00	12.8	77.9			
11/1/2018 14:00					42.4286;-76.50145
11/1/2018 14:05	12.8	77.9			
11/1/2018 14:05					42.42864;-76.50145
11/1/2018 14:10	12.8	88.1			42.42868;-76.50153
11/1/2018 14:15	12.8	89.1			
11/1/2018 14:15					42.42862;-76.50149
11/1/2018 14:20	12.8	86			
11/1/2018 14:20					42.4287;-76.50148
11/1/2018 14:25	12.8	76.9			42.42868;-76.50148
11/1/2018 14:30	12.8	113.4			
11/1/2018 14:30					42.4287;-76.50152
11/1/2018 14:35	12.8	77.9			
11/1/2018 14:35					42.42869;-76.5015
11/1/2018 14:40	12.8	77.9			42.42869;-76.50153
11/1/2018 14:45	12.8	84			
11/1/2018 14:45					42.42878;-76.5015
11/1/2018 14:50	12.8	94.1			
11/1/2018 14:50					42.42886;-76.50149
11/1/2018 14:55	12.8	93.1			42.42871;-76.50143
11/1/2018 15:00	12.8	88.1			
11/1/2018 15:00					42.42865;-76.50147
11/1/2018 15:05	12.8	85			
11/1/2018 15:05					42.4287;-76.50146
11/1/2018 15:10	12.8	86			42.42838;-76.50163
11/1/2018 15:15	12.8	84			
11/1/2018 15:15					42.42871;-76.50133
11/1/2018 15:20	12.7	88.1			
11/1/2018 15:20					42.4286;-76.50128
11/1/2018 15:25	12.7	83			42.42856;-76.50139
11/1/2018 15:30	12.8	77.9			
11/1/2018 15:30					42.42837;-76.50132
11/1/2018 15:35	12.7	88.1			
11/1/2018 15:35					42.42853;-76.5015
11/1/2018 15:40	12.7	89.1			42.42852;-76.50114
11/1/2018 15:45	12.7	76.9			
11/1/2018 15:45					42.42842;-76.50135
11/1/2018 15:50	12.7	79			
11/1/2018 15:50					42.4285;-76.50121
11/1/2018 15:55	12.7	79			42.42847;-76.50145
11/1/2018 16:00	12.7	77.9			
11/1/2018 16:00					42.42859;-76.5014
11/1/2018 16:05	12.7	77.9			
11/1/2018 16:05					42.42858;-76.50159
11/1/2018 16:10	12.7	77.9			42.42851;-76.5013
11/1/2018 16:15	12.7	82			
11/1/2018 16:15					42.42855;-76.5014
11/1/2018 16:20	12.7	89.1			
11/1/2018 16:20					42.42857;-76.50152
11/1/2018 16:25	12.7	94.1			42.42856;-76.50147
11/1/2018 16:30	12.7	82			
11/1/2018 16:30					42.4286;-76.50148
11/1/2018 16:35	12.7	83			
11/1/2018 16:35					42.42858;-76.5015
11/1/2018 16:40	12.7	101.2			42.42857;-76.50156
11/1/2018 16:45	12.7	79			42.42858;-76.50153
11/1/2018 16:50	12.8	79			42.42861;-76.50155
11/1/2018 16:55	12.7	82			42.42863;-76.50152
11/1/2018 17:00	12.7	77.9			42.42861;-76.50151
11/1/2018 17:05	12.7	88.1			42.42861;-76.50151
11/1/2018 17:10	12.7	94.1			42.4286;-76.50151
11/1/2018 17:15	12.7	77.9			42.4286;-76.50145
11/1/2018 17:20	12.7	85			42.42855;-76.50146
11/1/2018 17:25	12.7	77.9			42.42855;-76.50145
11/1/2018 17:30	12.7	88.1			42.42855;-76.50147
11/1/2018 17:35	12.7	79			42.42853;-76.50139
11/1/2018 17:40	12.7	95.1			
11/1/2018 17:40					42.4285;-76.50138
11/1/2018 17:45	12.7	83			42.42859;-76.5014
11/1/2018 17:50	12.7	88.1			42.42882;-76.50148
11/1/2018 17:55	12.7	88.1			42.42873;-76.5014
11/1/2018 18:00	12.7	79			42.42873;-76.50139
11/1/2018 18:05	12.7	79			42.42868;-76.50142
11/1/2018 18:10	12.7	80			42.42866;-76.50142
11/1/2018 18:15	12.7	77.9			42.42869;-76.50148
11/1/2018 18:20	12.7	79			42.42874;-76.50152
11/1/2018 18:25	12.7	81			42.4287;-76.50148
11/1/2018 18:30	12.6	79			42.42856;-76.5015
11/1/2018 18:35	12.6	84			42.42862;-76.50143
11/1/2018 18:40	12.6	83			42.42853;-76.50145
11/1/2018 18:45	12.6	85			42.42859;-76.50141
11/1/2018 18:50	12.6	79			42.42859;-76.50137
11/1/2018 18:55	12.6	84			42.4286;-76.5014
11/1/2018 19:00	12.6	79			42.4286;-76.50138
11/1/2018 19:05	12.6	93.1			42.42864;-76.5014
11/1/2018 19:10	12.6	77.9			42.42862;-76.50143
11/1/2018 19:15	12.6	89.1			42.42857;-76.50144
11/1/2018 19:20	12.6	92.1			42.42858;-76.50146
11/1/2018 19:25	12.6	79			42.42858;-76.50149
11/1/2018 19:30	12.6	77.9			42.42856;-76.50148
11/1/2018 19:35	12.5	99.2			42.42853;-76.50143
11/1/2018 19:40	12.6	83			42.42856;-76.50143
11/1/2018 19:45	12.6	80			42.42856;-76.50146
11/1/2018 19:50	12.6	79			42.42852;-76.50143
11/1/2018 19:55	12.5	80			42.4285;-76.50152
11/1/2018 20:00	12.6	90.1			42.42848;-76.50144
11/1/2018 20:05	12.5	79			42.42861;-76.50143
11/1/2018 20:10	12.5	88.1			42.42852;-76.50138
11/1/2018 20:15	12.5	77.9			42.4285;-76.50142
11/1/2018 20:20	12.5	97.2			42.4285;-76.50143
11/1/2018 20:25	12.5	91.1			42.42857;-76.50146
11/1/2018 20:30	12.5	79			42.42859;-76.50146

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/1/2018 20:35	12.5	79			42.42855;-76.50151
11/1/2018 20:40	12.5	83			42.42859;-76.50146
11/1/2018 20:45	12.5	86			42.42861;-76.50145
11/1/2018 20:50	12.5	92.1			42.42857;-76.5014
11/1/2018 20:55	12.5	83			42.42856;-76.50146
11/1/2018 21:00	12.5	81			
11/1/2018 21:00					42.42857;-76.50146
11/2/2018 12:17	13.4	96.2			
11/2/2018 12:18					42.43151710000001;-76.5040046
11/2/2018 12:20	13.3	95.1			
11/2/2018 12:20					42.42818;-76.5018
11/2/2018 12:25	13.3	75.9			
11/2/2018 12:25					42.42846;-76.50131
11/2/2018 12:30	13.3	73.9			
11/2/2018 12:30					42.42844;-76.50153
11/2/2018 12:35	13.3	80			42.42854;-76.50145
11/2/2018 12:40	13.3	74.9			42.42834;-76.50179
11/2/2018 12:45	13.3	73.9			42.42838;-76.50159
11/2/2018 12:50	13.3	94.1			42.42847;-76.50137
11/2/2018 12:55	13.3	72.9			
11/2/2018 12:55					42.42844;-76.50145
11/2/2018 13:00	13.3	74.9			
11/2/2018 13:00					42.42839;-76.50153
11/2/2018 13:05	13.3	79			
11/2/2018 13:05					42.42848;-76.50144
11/2/2018 13:10	13.3	84			
11/2/2018 13:10					42.42849;-76.50146
11/2/2018 13:15	13.3	81			42.42849;-76.50146
11/2/2018 13:20	13.3	74.9			42.42871;-76.50153
11/2/2018 13:25	13.3	73.9			42.42876;-76.5015
11/2/2018 13:30	13.3	71.9			42.42869;-76.50145
11/2/2018 13:35	13.2	73.9			
11/2/2018 13:35					42.42861;-76.50149
11/2/2018 13:40	13.2	73.9			
11/2/2018 13:40					42.42858;-76.50148
11/2/2018 13:45	13.2	79			
11/2/2018 13:45					42.42857;-76.50149
11/2/2018 13:50	13.2	73.9			42.42861;-76.50148
11/2/2018 13:55	13.2	76.9			42.42862;-76.50151
11/2/2018 14:00	13.2	79			42.42862;-76.5015
11/2/2018 14:05	13.2	74.9			42.42859;-76.50156
11/2/2018 14:10	13.2	75.9			
11/2/2018 14:10					42.42863;-76.50148
11/2/2018 14:15	13.2	86			
11/2/2018 14:15					42.4286;-76.50143
11/2/2018 14:20	13.2	73.9			
11/2/2018 14:20					42.42852;-76.5014
11/2/2018 14:25	13.2	92.1			
11/2/2018 14:25					42.42859;-76.50157
11/2/2018 14:30	13.2	72.9			42.42868;-76.50151
11/2/2018 14:35	13.2	89.1			42.42856;-76.50145
11/2/2018 14:40	13.2	74.9			42.42862;-76.50146
11/2/2018 14:45	13.2	91.1			42.42849;-76.50134
11/2/2018 14:50	13.2	75.9			
11/2/2018 14:50					42.42849;-76.5014
11/2/2018 14:55	13.2	86			
11/2/2018 14:55					42.42853;-76.50144
11/2/2018 15:00	13.2	73.9			
11/2/2018 15:00					42.42854;-76.50142
11/2/2018 15:05	13.2	75.9			
11/2/2018 15:05					42.42816;-76.50151
11/2/2018 15:10	13.2	75.9			42.42867;-76.50137
11/2/2018 15:15	13.2	86			42.42881;-76.50127
11/2/2018 15:20	13.2	81			42.42867;-76.50134
11/2/2018 15:25	13.2	85			42.42858;-76.50142
11/2/2018 15:30	13.2	81			
11/2/2018 15:30					42.4287;-76.50137
11/2/2018 15:35	13.2	77.9			
11/2/2018 15:35					42.42862;-76.50137
11/2/2018 15:40	13.2	76.9			
11/2/2018 15:40					42.42859;-76.50136
11/2/2018 15:45	13.2	77.9			
11/2/2018 15:45					42.42856;-76.5014
11/2/2018 15:50	13.2	85			42.42863;-76.50134
11/2/2018 15:55	13.2	115.4			42.4286;-76.50144
11/2/2018 16:00	13.2	75.9			42.42856;-76.50144
11/2/2018 16:05	13.2	75.9			
11/2/2018 16:05					42.42855;-76.50143
11/2/2018 16:10	13.2	99.2			
11/2/2018 16:10					42.42853;-76.50134
11/2/2018 16:15	13.2	101.2			
11/2/2018 16:15					42.4285;-76.5014
11/2/2018 16:20	13.2	73.9			
11/2/2018 16:20					42.4285;-76.50167
11/2/2018 16:25	13.2	87			42.42854;-76.50145
11/2/2018 16:30	13.2	75.9			42.42855;-76.50139
11/2/2018 16:35	13.2	75.9			42.42851;-76.50146
11/2/2018 16:40	13.2	75.9			42.4286;-76.5015
11/2/2018 16:45	13.2	94.1			
11/2/2018 16:45					42.42861;-76.50147
11/2/2018 16:50	13.2	86			
11/2/2018 16:50					42.42865;-76.5015
11/2/2018 16:55	13.2	76.9			
11/2/2018 16:55					42.42865;-76.50146
11/2/2018 17:00	13.2	77.9			
11/2/2018 17:00					42.42866;-76.50142
11/2/2018 17:05	13.2	80			42.42855;-76.50143
11/2/2018 17:10	13.2	75.9			42.42855;-76.50142
11/2/2018 17:15	13.2	87			42.42857;-76.50144
11/2/2018 17:20	13.2	76.9			42.42852;-76.50141
11/2/2018 17:25	13.2	103.2			
11/2/2018 17:25					42.42852;-76.50149
11/2/2018 17:30	13.2	76.9			
11/2/2018 17:30					42.42863;-76.50147
11/2/2018 17:35	13.2	87			
11/2/2018 17:35					42.42865;-76.50143
11/2/2018 17:40	13.2	84			
11/2/2018 17:40					42.42872;-76.5015
11/2/2018 17:45	13.2	102.2			

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/2/2018 17:46					42.42865;-76.50141
11/2/2018 17:50	13.2	76.9			42.42859;-76.50146
11/2/2018 17:55	13.2	77.9			
11/2/2018 17:55					42.42838;-76.5015
11/2/2018 18:00	13.2	97.2			
11/2/2018 18:00					42.42867;-76.50146
11/2/2018 18:05	13.2	86			
11/2/2018 18:05					42.42861;-76.50143
11/2/2018 18:10	13.2	76.9			42.42876;-76.50146
11/2/2018 18:15	13.2	77.9			42.42886;-76.5015
11/2/2018 18:20	13.2	75.9			42.42853;-76.50138
11/2/2018 18:25	13.2	87			42.4287;-76.50151
11/2/2018 18:30	13.2	74.9			
11/2/2018 18:30					42.42855;-76.50138
11/2/2018 18:35	13.2	74.9			
11/2/2018 18:35					42.42854;-76.5014
11/2/2018 18:40	13.2	76.9			
11/2/2018 18:40					42.42852;-76.50141
11/2/2018 18:45	13.2	74.9			
11/2/2018 18:45					42.42854;-76.50147
11/2/2018 18:50	13.2	76.9			42.42853;-76.50145
11/2/2018 18:55	13.2	109.3			42.4285;-76.50146
11/2/2018 19:00	13.2	83			42.42834;-76.50144
11/2/2018 19:05	13.2	75.9			
11/2/2018 19:05					42.42855;-76.50146
11/2/2018 19:10	13.2	77.9			
11/2/2018 19:10					42.42851;-76.50141
11/2/2018 19:15	13.2	75.9			
11/2/2018 19:15					42.42849;-76.50134
11/2/2018 19:20	13.2	76.9			
11/2/2018 19:20					42.42852;-76.5014
11/2/2018 19:25	13.2	74.9			42.42854;-76.50138
11/2/2018 19:30	13.2	85			42.42859;-76.50141
11/2/2018 19:35	13.2	85			42.4286;-76.5014
11/2/2018 19:40	13.2	75.9			42.42853;-76.50141
11/5/2018 14:57	13	116.4			
11/5/2018 15:00	12.9	87	0	0.011	
11/5/2018 15:00					42.42754;-76.50193
11/5/2018 15:01			0	0.011	
11/5/2018 15:02			0	0.011	
11/5/2018 15:03				0.011	
11/5/2018 15:05	12.8	82			
11/5/2018 15:05					42.42744;-76.50198
11/5/2018 15:10	12.9	76.9			42.42756;-76.50193
11/5/2018 15:15	12.9	87			42.42759;-76.5019
11/5/2018 15:20	12.9	74.9			42.42758;-76.50197
11/5/2018 15:25	12.9	77.9			
11/5/2018 15:25					42.42759;-76.50191
11/5/2018 15:30	12.9	107.3			
11/5/2018 15:30					42.42758;-76.50204
11/5/2018 15:35	12.9	83			
11/5/2018 15:35					42.42757;-76.50201
11/5/2018 15:40	12.9	82			42.4276;-76.50202
11/5/2018 15:45	12.9	80			42.42758;-76.50203
11/5/2018 15:50	12.9	84			42.42759;-76.50201
11/5/2018 15:55	12.9	87			
11/5/2018 15:55					42.4276;-76.50201
11/5/2018 16:00	12.9	81			
11/5/2018 16:00					42.42762;-76.50198
11/5/2018 16:05	12.9	76.9			
11/5/2018 16:05					42.4276;-76.50197
11/5/2018 16:10	12.9	77.9			42.42759;-76.50197
11/5/2018 16:15	12.9	76.9			
11/5/2018 16:15					42.4276;-76.50195
11/5/2018 16:20	12.9	80			
11/5/2018 16:20					42.42763;-76.50197
11/5/2018 16:25	12.9	79			42.42761;-76.50194
11/5/2018 16:30	12.9	88.1			42.42757;-76.50192
11/5/2018 16:35	12.8	85			42.42759;-76.5019
11/5/2018 16:40	12.9	77.9			
11/5/2018 16:40					42.42762;-76.50193
11/5/2018 16:45	12.8	80			42.42763;-76.50198
11/5/2018 16:50	12.9	84			42.4276;-76.50197
11/5/2018 16:55	12.9	75.9			
11/5/2018 16:55					42.42761;-76.50195
11/5/2018 17:00	12.8	77.9			
11/5/2018 17:00					42.4276;-76.50195
11/5/2018 17:05	12.8	89.1			
11/5/2018 17:05					42.4276;-76.50195
11/5/2018 17:10	12.8	84			42.42758;-76.50195
11/5/2018 17:15	12.8	82			42.42756;-76.50211
11/5/2018 17:20	12.8	79			42.42759;-76.50197
11/5/2018 17:25	12.8	77.9			
11/5/2018 17:25					42.4276;-76.50198
11/5/2018 17:30	12.8	79			42.42764;-76.50204
11/5/2018 17:35	12.8	79			42.42755;-76.50201
11/5/2018 17:40	12.8	80			
11/5/2018 17:40					42.4276;-76.50201
11/5/2018 17:45	12.8	83			
11/5/2018 17:45					42.42769;-76.50198
11/5/2018 17:50	12.8	79			
11/5/2018 17:50					42.42776;-76.50206
11/5/2018 17:55	12.8	81			42.42768;-76.50198
11/5/2018 18:00	12.8	87			42.42767;-76.50198
11/5/2018 18:05	12.8	79			42.42764;-76.50202
11/5/2018 18:10	12.8	82			
11/5/2018 18:10					42.42762;-76.50201
11/5/2018 18:15	12.8	77.9			
11/5/2018 18:15					42.42761;-76.50194
11/5/2018 18:20	12.8	85			
11/5/2018 18:20					42.42771;-76.50198
11/5/2018 18:25	12.8	80			42.42768;-76.50201
11/5/2018 18:30	12.8	82			42.42765;-76.50199
11/5/2018 18:35	12.8	77.9			42.42769;-76.50198
11/5/2018 18:40	12.8	81			
11/5/2018 18:40					42.42765;-76.50199
11/5/2018 18:45	12.8	82			
11/5/2018 18:45					42.42765;-76.50196
11/5/2018 18:50	12.8	90.1			

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/5/2018 18:50					42.42747;-76.50196
11/5/2018 18:55	12.8	84			42.42757;-76.502
11/5/2018 19:00	12.8	80			42.42766;-76.50197
11/5/2018 19:05	12.8	90.1			42.42765;-76.50195
11/5/2018 19:10	12.8	90.1			42.42763;-76.50193
11/5/2018 19:15	12.8	94.1			42.42763;-76.50194
11/5/2018 19:20	12.8	79			42.42768;-76.50197
11/5/2018 19:25	12.8	91.1			42.42763;-76.50197
11/5/2018 19:30	12.8	89.1			42.42759;-76.50197
11/5/2018 19:35	12.8	90.1			42.4276;-76.50199
11/5/2018 19:40	12.8	87			42.42761;-76.50198
11/5/2018 19:45	12.8	89.1			42.42767;-76.50198
11/5/2018 19:50	12.8	80			42.42762;-76.50195
11/5/2018 19:55	12.7	109.3			42.42759;-76.50196
11/5/2018 20:00	12.7	81			42.42749;-76.50198
11/5/2018 20:05	12.7	112.4			42.42756;-76.50193
11/5/2018 20:10	12.7	85			42.42763;-76.50197
11/5/2018 20:15	12.7	89.1			42.42762;-76.50199
11/5/2018 20:20	12.7	80			
11/5/2018 20:20					42.42756;-76.50197
11/5/2018 20:25	12.7	88.1			42.42759;-76.50197
11/5/2018 20:30	12.7	90.1			42.42733;-76.50185
11/5/2018 20:35	12.7	87			
11/5/2018 20:35					42.42752;-76.50193
11/5/2018 20:40	12.7	76.9			42.4276;-76.50193
11/5/2018 20:45	12.7	77.9			
11/5/2018 20:45					42.42778;-76.50181
11/5/2018 20:50	12.7	79			42.42749;-76.50209
11/5/2018 20:55	12.7	83			
11/5/2018 20:55					42.4275;-76.502
11/5/2018 21:00	12.7	81			42.42757;-76.50201
11/5/2018 21:05	12.7	80			
11/5/2018 21:05					42.42755;-76.50203
11/6/2018 13:03	13.2	98.2			
11/6/2018 13:05	13	87			
11/6/2018 13:05					42.42754;-76.50198
11/6/2018 13:06			0	0.005	
11/6/2018 13:07			0	0.004	
11/6/2018 13:08				0.004	
11/6/2018 13:10	12.9	84			
11/6/2018 13:10					42.42756;-76.502
11/6/2018 13:15	12.9	83			
11/6/2018 13:15					42.42754;-76.50198
11/6/2018 13:20	12.9	89.1			
11/6/2018 13:20					42.42757;-76.50196
11/6/2018 13:25	12.9	76.9			
11/6/2018 13:25					42.42762;-76.50198
11/6/2018 13:30	12.9	76.9			
11/6/2018 13:30					42.42762;-76.50198
11/6/2018 13:35	12.9	83			
11/6/2018 13:35					42.42759;-76.50198
11/6/2018 13:40	12.9	77.9			
11/6/2018 13:40					42.42764;-76.50196
11/6/2018 13:45	12.9	82			
11/6/2018 13:45					42.42755;-76.50201
11/6/2018 13:50	12.9	76.9			
11/6/2018 13:50					42.42765;-76.50203
11/6/2018 13:55	12.9	88.1			
11/6/2018 13:55					42.42751;-76.50204
11/6/2018 14:00	12.9	82			
11/6/2018 14:00					42.42751;-76.50197
11/6/2018 14:05	12.9	80			
11/6/2018 14:05					42.42751;-76.50195
11/6/2018 14:10	12.9	76.9			
11/6/2018 14:10					42.42757;-76.50175
11/6/2018 14:15	12.9	79			
11/6/2018 14:15					42.42759;-76.50188
11/6/2018 14:20	12.9	76.9			
11/6/2018 14:20					42.42759;-76.50191
11/6/2018 14:25	12.9	79			
11/6/2018 14:25					42.42756;-76.50196
11/6/2018 14:30	12.8	95.1			
11/6/2018 14:30					42.42759;-76.50198
11/6/2018 14:35	12.8	77.9			
11/6/2018 14:35					42.42754;-76.50204
11/6/2018 14:40	12.8	93.1			
11/6/2018 14:40					42.42757;-76.50198
11/6/2018 14:45	12.8	81			
11/6/2018 14:45					42.42721;-76.50191
11/6/2018 14:50	12.7	85			
11/6/2018 14:50					42.42762;-76.50193
11/6/2018 14:55	12.9	85			
11/6/2018 14:55					42.42753;-76.50196
11/6/2018 15:00	12.9	81			
11/6/2018 15:00					42.42748;-76.50195
11/6/2018 15:05	12.9	79			
11/6/2018 15:05					42.42741;-76.50204
11/6/2018 15:10	12.9	81			
11/6/2018 15:10					42.42756;-76.50199
11/6/2018 15:15	12.9	77.9			
11/6/2018 15:15					42.42739;-76.50233
11/6/2018 15:20	12.8	76.9			
11/6/2018 15:20					42.42741;-76.50205
11/6/2018 15:25	12.8	80			
11/6/2018 15:25					42.4274;-76.5023
11/6/2018 15:30	12.8	96.2			
11/6/2018 15:30					42.42746;-76.50241
11/6/2018 15:35	12.8	81			
11/6/2018 15:35					42.42756;-76.50204
11/6/2018 15:40	12.8	80			
11/6/2018 15:40					42.42751;-76.50209
11/6/2018 15:45	12.8	77.9			
11/6/2018 15:45					42.42753;-76.50199
11/6/2018 15:50	12.8	77.9			
11/6/2018 15:50					42.42755;-76.50186
11/6/2018 15:55	12.8	79			
11/6/2018 15:55					42.42752;-76.50205
11/6/2018 16:00	12.8	77.9			
11/6/2018 16:00					42.42753;-76.50197

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/6/2018 16:05	12.8	89.1			
11/6/2018 16:05					42.42754;-76.50191
11/6/2018 16:10	12.8	79			42.42761;-76.50195
11/6/2018 16:15	12.8	83			
11/6/2018 16:15					42.4276;-76.50195
11/6/2018 16:20	12.8	83			42.42762;-76.50196
11/6/2018 16:25	12.8	89.1			
11/6/2018 16:25					42.42765;-76.50201
11/6/2018 16:30	12.8	81			42.42782;-76.50216
11/6/2018 16:35	12.8	88.1			42.42769;-76.50203
11/6/2018 16:40	12.8	83			
11/6/2018 16:40					42.4276;-76.50198
11/6/2018 16:45	12.8	93.1			
11/6/2018 16:45					42.4276;-76.50199
11/6/2018 16:50	12.8	90.1			42.42761;-76.50195
11/6/2018 16:55	12.7	86			
11/6/2018 16:55					42.42759;-76.50197
11/6/2018 17:00	12.7	89.1			
11/6/2018 17:00					42.42759;-76.50198
11/6/2018 17:05	12.7	80			42.4276;-76.50198
11/6/2018 17:10	12.7	93.1			
11/6/2018 17:10					42.42753;-76.50197
11/6/2018 17:15	12.7	82			42.42757;-76.50196
11/6/2018 17:20	12.6	80			
11/6/2018 17:20					42.42758;-76.50197
11/6/2018 17:25	12.7	79			42.42756;-76.50196
11/6/2018 17:30	12.7	84			42.42758;-76.50195
11/6/2018 17:35	12.7	84			42.42756;-76.50195
11/6/2018 17:40	12.7	99.2			
11/6/2018 17:40					42.42763;-76.5019
11/6/2018 17:45	12.7	82			
11/6/2018 17:45					42.42759;-76.50198
11/6/2018 17:50	12.7	81			42.42768;-76.50198
11/6/2018 17:55	12.7	87			
11/6/2018 17:55					42.42764;-76.50197
11/6/2018 18:00	12.7	80			42.42757;-76.50197
11/6/2018 18:05	12.7	90.1			
11/6/2018 18:05					42.42757;-76.50199
11/6/2018 18:10	12.7	92.1			42.42757;-76.50198
11/6/2018 18:15	12.7	89.1			
11/6/2018 18:15					42.42757;-76.50198
11/6/2018 18:20	12.7	81			42.42759;-76.50198
11/6/2018 18:25	12.6	87			
11/6/2018 18:25					42.42759;-76.50195
11/6/2018 18:30	12.6	81			
11/6/2018 18:30					42.42764;-76.50195
11/6/2018 18:35	12.6	88.1			42.42758;-76.50193
11/6/2018 18:40	12.6	86			
11/6/2018 18:40					42.42757;-76.50198
11/6/2018 18:45	12.6	81			42.42759;-76.50202
11/6/2018 18:50	12.6	86			
11/6/2018 18:50					42.42787;-76.50198
11/6/2018 18:55	12.6	80			42.42747;-76.50193
11/6/2018 19:00	12.6	81			42.42757;-76.50196
11/6/2018 19:05	12.6	80			42.42756;-76.50193
11/6/2018 19:10	12.6	80			42.42755;-76.50194
11/6/2018 19:15	12.6	91.1			42.4276;-76.50197
11/6/2018 19:20	12.6	87			42.42759;-76.50195
11/6/2018 19:25	12.6	96.2			42.42758;-76.50195
11/6/2018 19:30	12.6	83			42.42756;-76.50195
11/6/2018 19:35	12.6	81			42.4276;-76.50199
11/6/2018 19:40	12.6	92.1			42.4276;-76.502
11/6/2018 19:45	12.6	82			42.42756;-76.50198
11/6/2018 19:50	12.6	86			42.42757;-76.50197
11/6/2018 19:55	12.6	80			42.42759;-76.50198
11/6/2018 20:00	12.6	84			42.4276;-76.50198
11/6/2018 20:05	12.6	85			42.42748;-76.50192
11/6/2018 20:10	12.6	79			42.42731;-76.50189
11/6/2018 20:15	12.6	80			42.42749;-76.50195
11/6/2018 20:20	12.6	80			42.42758;-76.50194
11/6/2018 20:25	12.6	82			42.42757;-76.50199
11/6/2018 20:30	12.6	91.1			42.42741;-76.50204
11/6/2018 20:35	12.6	89.1			42.42757;-76.50198
11/6/2018 20:40	12.6	81			42.42761;-76.50199
11/6/2018 20:45	12.6	80			42.42757;-76.50201
11/6/2018 20:50	12.6	81			42.42757;-76.50201
11/6/2018 20:55	12.6	81			42.42763;-76.50191
11/6/2018 21:00	12.6	82			42.42756;-76.50202
11/6/2018 21:05	12.6	81			42.42756;-76.50201
11/6/2018 21:10	12.5	80			42.42757;-76.50197
11/6/2018 21:15	12.5	85			42.42757;-76.50197
11/6/2018 21:20	12.5	94.1			42.42753;-76.50201
11/6/2018 21:25	12.5	81			42.42753;-76.50205
11/6/2018 21:30	12.5	81			42.42753;-76.50204
11/6/2018 21:35	12.5	84			42.42753;-76.50203
11/6/2018 21:40	12.5	81			
11/6/2018 21:40					42.42758;-76.50198
11/6/2018 21:45	12.5	95.1			
11/6/2018 21:45					42.42758;-76.50201
11/6/2018 21:50	12.5	91.1			
11/6/2018 21:50					42.42763;-76.50195
11/7/2018 12:39	13.3	96.2			
11/7/2018 12:41	13.2	97.2			
11/7/2018 12:41					42.4327089;-76.4946915
11/7/2018 12:45	12.8	77.9	0	0.007	
11/7/2018 12:45					42.43329;-76.49604
11/7/2018 12:46			0	0.007	
11/7/2018 12:47			0	0.006	
11/7/2018 12:48				0.006	
11/7/2018 12:50	12.8	76.9			
11/7/2018 12:50					42.43306;-76.49564
11/7/2018 12:55	12.8	86			42.43303;-76.49559
11/7/2018 13:00	12.8	81			42.43305;-76.49556
11/7/2018 13:05	12.8	80			42.43303;-76.49557
11/7/2018 13:10	12.8	77.9			
11/7/2018 13:10					42.4331;-76.49568
11/7/2018 13:15	12.8	86			
11/7/2018 13:15					42.43303;-76.49556
11/7/2018 13:20	12.8	80			

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/7/2018 13:20					42.43306;-76.49561
11/7/2018 13:25	13	100.2			
11/7/2018 13:28			0	0.005	
11/7/2018 13:29			0	0.005	
11/7/2018 13:30	12.8	81	0	0.005	
11/7/2018 13:30					42.43306;-76.49553
11/7/2018 13:31			0	0.007	
11/7/2018 13:32			0	0.006	
11/7/2018 13:33			0	0.005	
11/7/2018 13:34			0	0.005	
11/7/2018 13:35	12.8	93.1	0	0.005	42.43309;-76.49558
11/7/2018 13:36			0	0.005	
11/7/2018 13:37			0	0.005	
11/7/2018 13:38			0	0.005	
11/7/2018 13:39			0	0.005	
11/7/2018 13:40	12.8	96.2	0	0.005	42.43304;-76.49559
11/7/2018 13:41			0	0.005	
11/7/2018 13:42			0	0.005	
11/7/2018 13:43			0	0.005	
11/7/2018 13:44			0	0.006	
11/7/2018 13:45	12.8	88.1	0	0.006	42.43305;-76.4956
11/7/2018 13:46			0	0.006	
11/7/2018 13:47			0	0.005	
11/7/2018 13:48			0	0.005	
11/7/2018 13:49			0	0.005	
11/7/2018 13:50	12.8	80	0	0.006	42.43318;-76.49554
11/7/2018 13:51			0	0.005	
11/7/2018 13:52			0	0.005	
11/7/2018 13:53			0	0.005	
11/7/2018 13:54			0	0.005	
11/7/2018 13:55	12.7	79	0	0.005	42.43311;-76.49554
11/7/2018 13:56			0	0.005	
11/7/2018 13:57			0	0.005	
11/7/2018 13:58			0	0.005	
11/7/2018 13:59			0	0.005	
11/7/2018 14:00	12.8	77.9	0	0.005	42.43308;-76.49555
11/7/2018 14:01			0	0.005	
11/7/2018 14:02			0	0.005	
11/7/2018 14:03			0	0.005	
11/7/2018 14:04			0	0.005	
11/7/2018 14:05	12.8	83	0	0.005	42.43312;-76.49558
11/7/2018 14:06			0	0.005	
11/7/2018 14:07			0	0.005	
11/7/2018 14:08			0	0.005	
11/7/2018 14:09			0	0.005	
11/7/2018 14:10	12.8	88.1	0	0.005	42.43313;-76.49559
11/7/2018 14:11			0	0.005	
11/7/2018 14:12			0	0.005	
11/7/2018 14:13			0	0.005	
11/7/2018 14:14			0.001	0.005	
11/7/2018 14:15	12.8	87	0.001	0.005	42.43304;-76.49549
11/7/2018 14:16			0.001	0.005	
11/7/2018 14:17			0.001	0.005	
11/7/2018 14:18			0.001	0.005	
11/7/2018 14:19			0.001	0.005	
11/7/2018 14:20	12.8	84	0.001	0.005	42.43322;-76.49545
11/7/2018 14:21			0.001	0.005	
11/7/2018 14:22			0.001	0.006	
11/7/2018 14:23			0.001	0.005	
11/7/2018 14:24			0.001	0.005	
11/7/2018 14:25	12.8	79	0.001	0.005	42.4331;-76.49551
11/7/2018 14:26			0.001	0.005	
11/7/2018 14:27			0.001	0.006	
11/7/2018 14:28			0.001	0.005	
11/7/2018 14:29			0.001	0.005	
11/7/2018 14:30	12.8	82	0.001	0.005	42.43333;-76.49551
11/7/2018 14:31			0.001	0.005	
11/7/2018 14:32			0.001	0.005	
11/7/2018 14:33			0.001	0.005	
11/7/2018 14:34			0.001	0.005	
11/7/2018 14:35	12.8	77.9	0.001	0.005	42.433;-76.49553
11/7/2018 14:36			0.001	0.005	
11/7/2018 14:37			0.001	0.005	
11/7/2018 14:38			0.001	0.005	
11/7/2018 14:39			0.001	0.007	
11/7/2018 14:40	12.8	79	0.001	0.005	42.43306;-76.49551
11/7/2018 14:41			0.001	0.005	
11/7/2018 14:42			0.001	0.005	
11/7/2018 14:43			0.001	0.005	
11/7/2018 14:44			0.001	0.005	
11/7/2018 14:45	12.8	89.1	0.001	0.005	42.43309;-76.49551
11/7/2018 14:46			0.001	0.005	
11/7/2018 14:47			0.001	0.005	
11/7/2018 14:48			0.001	0.005	
11/7/2018 14:49			0.001	0.005	
11/7/2018 14:50	12.8	77.9	0.001	0.005	42.43301;-76.49555
11/7/2018 14:51			0.001	0.005	
11/7/2018 14:52			0.001	0.005	
11/7/2018 14:53			0.001	0.005	
11/7/2018 14:54			0.001	0.005	
11/7/2018 14:55	12.8	82	0.001	0.005	42.43301;-76.49548
11/7/2018 14:56			0.001	0.005	
11/7/2018 14:57			0.001	0.005	
11/7/2018 14:58			0.001	0.005	
11/7/2018 14:59			0.001	0.005	
11/7/2018 15:00	12.8	82	0.001	0.005	42.43309;-76.4957
11/7/2018 15:01			0.001	0.005	
11/7/2018 15:02			0.001	0.005	
11/7/2018 15:03			0.001	0.005	
11/7/2018 15:04			0.001	0.005	
11/7/2018 15:05	12.8	85	0.001	0.005	42.43327;-76.4957
11/7/2018 15:06			0.001	0.005	
11/7/2018 15:07			0.001	0.005	
11/7/2018 15:08			0.001	0.005	
11/7/2018 15:09			0.001	0.005	
11/7/2018 15:10	12.8	95.1	0.001	0.005	42.43308;-76.49536
11/7/2018 15:11			0.001	0.005	
11/7/2018 15:12			0.001	0.005	
11/7/2018 15:13			0.001	0.005	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/7/2018 15:14			0.001	0.005	
11/7/2018 15:15	12.8	81	0.001	0.005	42.43317;-76.49559
11/7/2018 15:16			0.001	0.005	
11/7/2018 15:17			0.001	0.005	
11/7/2018 15:18			0.001	0.005	
11/7/2018 15:19			0.001	0.005	
11/7/2018 15:20	12.8	84	0.001	0.005	42.43298;-76.49553
11/7/2018 15:21			0.001	0.005	
11/7/2018 15:22			0.001	0.005	
11/7/2018 15:23			0.001	0.005	
11/7/2018 15:24			0.001	0.005	
11/7/2018 15:25	12.8	81	0.001	0.005	42.43306;-76.49562
11/7/2018 15:26			0.001	0.005	
11/7/2018 15:27			0.001	0.005	
11/7/2018 15:28			0.001	0.005	
11/7/2018 15:29			0.001	0.005	
11/7/2018 15:30	12.7	98.2	0.001	0.005	42.43304;-76.49561
11/7/2018 15:31			0.001	0.005	
11/7/2018 15:32			0.001	0.005	
11/7/2018 15:33			0.001	0.005	
11/7/2018 15:34			0.001	0.004	
11/7/2018 15:35	12.8	83	0.001	0.005	42.43306;-76.49561
11/7/2018 15:36			0.001	0.005	
11/7/2018 15:37			0.001	0.005	
11/7/2018 15:38			0.001	0.005	
11/7/2018 15:39			0.001	0.004	
11/7/2018 15:40	12.7	94.1	0.001	0.004	42.43298;-76.4956
11/7/2018 15:41			0.001	0.004	
11/7/2018 15:42			0.001	0.005	
11/7/2018 15:43			0.001	0.005	
11/7/2018 15:44			0.001	0.005	
11/7/2018 15:45	12.7	80	0.001	0.005	42.43303;-76.49561
11/7/2018 15:46			0.001	0.01	
11/7/2018 15:47			0.001	0.005	
11/7/2018 15:48			0.001	0.005	
11/7/2018 15:49			0.002	0.007	
11/7/2018 15:50	12.7	82	0.002	0.005	42.43301;-76.49559
11/7/2018 15:51			0.002	0.004	
11/7/2018 15:52			0.002	0.004	
11/7/2018 15:53			0.002	0.004	
11/7/2018 15:54			0.002	0.004	
11/7/2018 15:55	12.7	87	0.002	0.004	42.43306;-76.49557
11/7/2018 15:56			0.002	0.004	
11/7/2018 15:57			0.002	0.004	
11/7/2018 15:58			0.002	0.004	
11/7/2018 15:59			0.002	0.004	
11/7/2018 16:00	12.7	85	0.002	0.004	42.43296;-76.49549
11/7/2018 16:01			0.002	0.004	
11/7/2018 16:02			0.002	0.004	
11/7/2018 16:03			0.002	0.004	
11/7/2018 16:04			0.002	0.004	
11/7/2018 16:05	12.7	79	0.002	0.004	42.43299;-76.49563
11/7/2018 16:06			0.002	0.004	
11/7/2018 16:07			0.002	0.004	
11/7/2018 16:08			0.002	0.004	
11/7/2018 16:09			0.002	0.004	
11/7/2018 16:10	12.7	80	0.002	0.004	42.43292;-76.49554
11/7/2018 16:11			0.002	0.004	
11/7/2018 16:12			0.002	0.004	
11/7/2018 16:13			0.002	0.004	
11/7/2018 16:14			0.002	0.004	
11/7/2018 16:15	12.7	79	0.002	0.004	42.43294;-76.4956
11/7/2018 16:16			0.002	0.004	
11/7/2018 16:17			0.002	0.004	
11/7/2018 16:18			0.002	0.004	
11/7/2018 16:19			0.002	0.004	
11/7/2018 16:20	12.7	83	0.002	0.004	42.43301;-76.49561
11/7/2018 16:21			0.002	0.004	
11/7/2018 16:22			0.002	0.004	
11/7/2018 16:23			0.002	0.004	
11/7/2018 16:24			0.002	0.004	
11/7/2018 16:25	12.7	81	0.002	0.004	42.43308;-76.49558
11/7/2018 16:26			0.002	0.004	
11/7/2018 16:27			0.002	0.004	
11/7/2018 16:28			0.002	0.004	
11/7/2018 16:29			0.002	0.004	
11/7/2018 16:30	12.7	79	0.002	0.004	42.43364;-76.49619
11/7/2018 16:31			0.002	0.004	
11/7/2018 16:32			0.002	0.004	
11/7/2018 16:33			0.002	0.004	
11/7/2018 16:34			0.002	0.004	
11/7/2018 16:35	12.7	79	0.002	0.004	42.43338;-76.49593
11/7/2018 16:36			0.002	0.004	
11/7/2018 16:37			0.002	0.004	
11/7/2018 16:38			0.002	0.004	
11/7/2018 16:39			0.002	0.004	
11/7/2018 16:40	12.7	80	0.002	0.007	42.43305;-76.49556
11/7/2018 16:41			0.002	0.004	
11/7/2018 16:42			0.002	0.004	
11/7/2018 16:43			0.002	0.004	
11/7/2018 16:44			0.002	0.004	
11/7/2018 16:45	12.7	89.1	0.002	0.004	42.43303;-76.49557
11/7/2018 16:46			0.002	0.004	
11/7/2018 16:47			0.002	0.006	
11/7/2018 16:48			0.002	0.004	
11/7/2018 16:49			0.002	0.004	
11/7/2018 16:50	12.7	100.2	0.002	0.004	42.43304;-76.49557
11/7/2018 16:51			0.002	0.004	
11/7/2018 16:52			0.002	0.004	
11/7/2018 16:53			0.002	0.004	
11/7/2018 16:54			0.002	0.004	
11/7/2018 16:55	12.7	82	0.002	0.004	42.43299;-76.49557
11/7/2018 16:56			0.002	0.004	
11/7/2018 16:57			0.002	0.004	
11/7/2018 16:58			0.002	0.004	
11/7/2018 16:59			0.002	0.004	
11/7/2018 17:00	12.7	81	0.002	0.004	42.43304;-76.49562
11/7/2018 17:01			0.002	0.004	
11/7/2018 17:02			0.002	0.004	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/7/2018 17:03			0.002	0.004	
11/7/2018 17:04			0.002	0.004	
11/7/2018 17:05	12.7	82	0.002	0.004	42.43301;-76.49563
11/7/2018 17:06			0.002	0.005	
11/7/2018 17:07			0.002	0.004	
11/7/2018 17:08			0.002	0.004	
11/7/2018 17:09			0.002	0.004	
11/7/2018 17:10	12.7	95.1	0.002	0.004	42.43303;-76.49557
11/7/2018 17:11			0.002	0.004	
11/7/2018 17:12			0.002	0.004	
11/7/2018 17:13			0.002	0.004	
11/7/2018 17:14			0.002	0.004	
11/7/2018 17:15	12.7	80	0.002	0.004	42.43301;-76.49554
11/7/2018 17:16			0.002	0.004	
11/7/2018 17:17			0.002	0.004	
11/7/2018 17:18			0.002	0.004	
11/7/2018 17:19			0.002	0.004	
11/7/2018 17:20	12.6	80	0.002	0.004	42.43302;-76.49556
11/7/2018 17:21			0.002	0.004	
11/7/2018 17:22			0.002	0.004	
11/7/2018 17:23			0.002	0.004	
11/7/2018 17:24			0.002	0.004	
11/7/2018 17:25	12.6	87	0.002	0.004	42.43296;-76.49572
11/7/2018 17:26			0.002	0.004	
11/7/2018 17:27			0.002	0.004	
11/7/2018 17:28			0.002	0.004	
11/7/2018 17:29			0.002	0.004	
11/7/2018 17:30	12.6	95.1	0.002	0.004	42.43301;-76.49559
11/7/2018 17:31			0.002	0.004	
11/7/2018 17:32			0.002	0.004	
11/7/2018 17:33			0.002	0.003	
11/7/2018 17:34			0.002	0.003	
11/7/2018 17:35	12.6	91.1	0.002	0.003	42.43317;-76.49565
11/7/2018 17:36			0.002	0.003	
11/7/2018 17:37			0.002	0.004	
11/7/2018 17:38			0.002	0.004	
11/7/2018 17:39			0.002	0.004	
11/7/2018 17:40	12.6	79	0.002	0.004	42.43307;-76.49557
11/7/2018 17:41				0.004	
11/7/2018 17:45	12.7	91.1			42.42859;-76.50175
11/7/2018 17:50	12.7	77.9			42.42869;-76.50168
11/7/2018 17:55	12.8	80			42.43302;-76.49559
11/7/2018 18:00	12.8	75.9			42.43286;-76.49685
11/7/2018 18:05	12.8	76.9			42.4327;-76.49704
11/7/2018 18:10	12.7	80			42.42804;-76.50217
11/7/2018 18:15	12.5	82		0.002	42.42799;-76.50236
11/7/2018 18:15			0		
11/7/2018 18:16			0	0.002	
11/7/2018 18:17			0	0.003	
11/7/2018 18:18			0	0.003	
11/7/2018 18:19			0	0.003	
11/7/2018 18:20	12.5	82	0	0.003	42.42807;-76.50239
11/7/2018 18:21			0	0.003	
11/7/2018 18:22			0	0.003	
11/7/2018 18:23			0	0.003	
11/7/2018 18:24			0	0.004	
11/7/2018 18:25	12.5	91.1	0	0.003	42.42804;-76.50243
11/7/2018 18:26			0	0.003	
11/7/2018 18:27			0	0.003	
11/7/2018 18:28			0	0.003	
11/7/2018 18:29			0	0.003	
11/7/2018 18:30	12.5	82	0	0.003	42.42796;-76.5024
11/7/2018 18:31			0	0.003	
11/7/2018 18:32			0	0.003	
11/7/2018 18:33			0	0.003	
11/7/2018 18:34			0	0.003	
11/7/2018 18:35	12.5	81	0	0.003	42.42788;-76.50226
11/7/2018 18:36			0	0.003	
11/7/2018 18:37			0	0.003	
11/7/2018 18:38			0	0.003	
11/7/2018 18:39			0	0.003	
11/7/2018 18:40	12.5	87	0	0.003	42.42786;-76.5024
11/7/2018 18:41			0	0.003	
11/7/2018 18:42			0	0.003	
11/7/2018 18:43			0	0.003	
11/7/2018 18:44			0	0.002	
11/7/2018 18:45	12.5	86	0	0.002	42.42799;-76.50235
11/7/2018 18:46			0	0.002	
11/7/2018 18:47			0	0.003	
11/7/2018 18:48			0	0.003	
11/7/2018 18:49			0	0.002	
11/7/2018 18:50	12.5	82	0	0.003	42.42797;-76.50234
11/7/2018 18:51			0	0.002	
11/7/2018 18:52			0	0.003	
11/7/2018 18:53			0	0.003	
11/7/2018 18:54			0	0.003	
11/7/2018 18:55	12.6	101.2	0	0.003	42.42805;-76.50248
11/7/2018 18:56			0	0.002	
11/7/2018 18:57			0	0.002	
11/7/2018 18:58			0	0.002	
11/7/2018 18:59			0	0.002	
11/7/2018 19:00	12.6	81	0	0.002	42.42798;-76.50233
11/7/2018 19:01			0	0.002	
11/7/2018 19:02			0	0.002	
11/7/2018 19:03			0	0.002	
11/7/2018 19:04			0	0.002	
11/7/2018 19:05	12.6	85	0	0.002	42.42796;-76.50233
11/7/2018 19:06			0	0.002	
11/7/2018 19:07			0	0.002	
11/7/2018 19:08			0	0.002	
11/7/2018 19:09			0	0.002	
11/7/2018 19:10	12.5	83	0	0.002	42.42799;-76.50237
11/7/2018 19:11			0	0.002	
11/7/2018 19:12			0	0.003	
11/7/2018 19:13			0	0.002	
11/7/2018 19:14			0	0.002	
11/7/2018 19:15	12.6	79	0	0.002	42.42798;-76.50237
11/7/2018 19:16			0	0.002	
11/7/2018 19:17			0	0.002	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/7/2018 19:18			0	0.002	
11/7/2018 19:19			0	0.002	
11/7/2018 19:20	12.5	84	0	0.002	42.42786;-76.50235
11/7/2018 19:21			0	0.002	
11/7/2018 19:22			0	0.002	
11/7/2018 19:23			0	0.002	
11/7/2018 19:24			0	0.002	
11/7/2018 19:25	12.5	81	0	0.003	42.42796;-76.50237
11/7/2018 19:26			0	0.003	
11/7/2018 19:27			0	0.003	
11/7/2018 19:28			0	0.002	
11/7/2018 19:29			0	0.002	
11/7/2018 19:30	12.5	89.1	0	0.002	42.42802;-76.50235
11/7/2018 19:31			0	0.002	
11/7/2018 19:32			0	0.002	
11/7/2018 19:33			0	0.002	
11/7/2018 19:34			0	0.002	
11/7/2018 19:35	12.5	83	0	0.002	42.42802;-76.50237
11/7/2018 19:36			0	0.002	
11/7/2018 19:37			0	0.002	
11/7/2018 19:38			0	0.002	
11/7/2018 19:39			0	0.002	
11/7/2018 19:40	12.5	82	0	0.002	42.42803;-76.50237
11/7/2018 19:41			0	0.002	
11/7/2018 19:42			0	0.002	
11/7/2018 19:43			0	0.002	
11/7/2018 19:44			0	0.002	
11/7/2018 19:45	12.5	91.1	0	0.002	42.42802;-76.50237
11/7/2018 19:46			0	0.002	
11/7/2018 19:47			0	0.002	
11/7/2018 19:48			0	0.002	
11/7/2018 19:49			0	0.002	
11/7/2018 19:50	12.5	83	0	0.002	42.42799;-76.50235
11/7/2018 19:51			0	0.002	
11/7/2018 19:52			0	0.002	
11/7/2018 19:53			0	0.002	
11/7/2018 19:54			0.001	0.002	
11/7/2018 19:55	12.5	86	0.001	0.002	42.4279;-76.5024
11/7/2018 19:56			0.001	0.002	
11/7/2018 19:57			0.001	0.002	
11/7/2018 19:58			0.001	0.003	
11/7/2018 19:59			0.001	0.002	
11/7/2018 20:00	12.5	84	0.001	0.002	42.42793;-76.50233
11/7/2018 20:01			0.001	0.002	
11/7/2018 20:02			0.001	0.002	
11/7/2018 20:03			0.001	0.002	
11/7/2018 20:04			0.001	0.002	
11/7/2018 20:05	12.5	86	0.001	0.002	42.42795;-76.50233
11/7/2018 20:06			0.001	0.002	
11/7/2018 20:07			0.001	0.002	
11/7/2018 20:08			0.001	0.002	
11/7/2018 20:09			0.001	0.002	
11/7/2018 20:10	12.5	97.2	0.001	0.002	42.428;-76.50227
11/7/2018 20:11			0.001	0.002	
11/7/2018 20:12			0.001	0.002	
11/7/2018 20:13			0.001	0.002	
11/7/2018 20:14			0.001	0.002	
11/7/2018 20:15	12.5	83	0.001	0.002	
11/7/2018 20:16			0.001	0.002	
11/7/2018 20:17			0.001	0.002	
11/7/2018 20:18			0.001	0.003	
11/7/2018 20:19			0.001	0.003	
11/7/2018 20:20	12.5	85	0.001	0.003	42.42793;-76.50237
11/7/2018 20:21			0.001	0.002	
11/7/2018 20:22			0.001	0.003	
11/7/2018 20:23			0.001	0.003	
11/7/2018 20:24			0.001	0.003	
11/7/2018 20:25	12.5	81	0.001	0.003	42.4279;-76.50233
11/7/2018 20:26			0.001	0.003	
11/7/2018 20:27			0.001	0.003	
11/7/2018 20:28			0.001	0.003	
11/7/2018 20:29			0.001	0.002	
11/7/2018 20:30	12.5	82	0.001	0.002	42.42813;-76.50219
11/7/2018 20:31			0.001	0.002	
11/7/2018 20:32			0.001	0.002	
11/7/2018 20:33			0.001	0.002	
11/7/2018 20:34			0.001	0.002	
11/7/2018 20:35	12.5	82	0.001	0.002	42.42799;-76.50233
11/7/2018 20:36			0.001	0.003	
11/7/2018 20:37			0.001	0.003	
11/7/2018 20:38			0.001	0.002	
11/7/2018 20:39			0.001	0.003	
11/7/2018 20:40	12.4	128.6	0.001	0.003	42.42792;-76.50244
11/7/2018 20:41			0.001	0.002	
11/7/2018 20:42			0.001	0.003	
11/7/2018 20:43			0.001	0.003	
11/7/2018 20:44			0.001	0.003	
11/7/2018 20:45	12.4	96.2	0.001	0.003	42.42801;-76.5023
11/7/2018 20:46			0.001	0.003	
11/7/2018 20:47			0.001	0.003	
11/7/2018 20:48			0.001	0.002	
11/7/2018 20:49			0.001	0.002	
11/7/2018 20:50	12.5	86	0.001	0.003	42.42797;-76.50235
11/7/2018 20:51			0.001	0.003	
11/7/2018 20:52			0.001	0.003	
11/7/2018 20:53			0.001	0.003	
11/7/2018 20:54			0.001	0.003	
11/7/2018 20:55	12.5	92.1	0.001	0.003	
11/7/2018 20:55					42.42793;-76.50235
11/7/2018 20:56			0.001	0.003	
11/7/2018 20:57			0.001	0.003	
11/7/2018 20:58			0.001	0.003	
11/7/2018 20:59			0.001	0.003	
11/7/2018 21:00	12.4	84	0.001	0.003	
11/7/2018 21:00					42.428;-76.5023
11/7/2018 21:01			0.001	0.002	
11/7/2018 21:02			0.001	0.003	
11/7/2018 21:03			0.001	0.003	
11/7/2018 21:04			0.001	0.003	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/7/2018 21:05	12.2	82	0.001	0.004	
11/7/2018 21:05					42.42815;-76.5023
11/7/2018 21:06			0.001	0.007	
11/7/2018 21:07			0.001	0.005	
11/7/2018 21:08			0.001	0.007	
11/7/2018 21:09			0.001	0.005	
11/7/2018 21:10	12.4	81	0.001	0.005	
11/7/2018 21:10					42.42815;-76.5023
11/7/2018 21:11			0.001	0.004	
11/7/2018 21:12			0.001	0.003	
11/7/2018 21:13			0.001	0.003	
11/7/2018 21:14			0.001	0.004	
11/7/2018 21:15	12.4	88.1	0.001	0.003	
11/7/2018 21:15					42.42824;-76.5023
11/7/2018 21:16			0.001	0.003	
11/7/2018 21:17			0.001	0.004	
11/7/2018 21:18			0.001	0.006	
11/7/2018 21:19			0.001	0.003	
11/7/2018 21:20	12.4	86	0.001	0.002	
11/7/2018 21:20					42.42823;-76.50227
11/7/2018 21:21			0.001	0.002	
11/7/2018 21:22			0.001	0.004	
11/7/2018 21:23			0.001	0.004	
11/7/2018 21:24			0.001	0.003	
11/7/2018 21:25	12.4	81	0.001	0.002	
11/7/2018 21:25					42.42824;-76.50229
11/7/2018 21:26			0.001	0.003	
11/7/2018 21:27			0.001	0.003	
11/7/2018 21:28			0.001	0.003	
11/7/2018 21:29			0.001	0.003	
11/7/2018 21:30	12.4	84	0.001	0.003	
11/7/2018 21:30					42.4282;-76.50232
11/7/2018 21:31			0.001	0.003	
11/7/2018 21:32			0.001	0.003	
11/7/2018 21:33			0.001	0.003	
11/7/2018 21:34			0.001	0.003	
11/7/2018 21:35	12.4	82	0.001	0.004	
11/7/2018 21:35					42.42827;-76.50227
11/7/2018 21:36			0.001	0.003	
11/7/2018 21:37			0.001	0.002	
11/7/2018 21:38			0.001	0.002	
11/7/2018 21:39			0.001	0.003	
11/7/2018 21:40	12.4	92.1	0.001	0.003	
11/7/2018 21:40					42.42823;-76.50229
11/7/2018 21:41			0.001	0.003	
11/7/2018 21:42			0.001	0.003	
11/7/2018 21:43			0.001	0.003	
11/7/2018 21:44			0.001	0.003	
11/7/2018 21:45	12.4	82	0.001	0.003	
11/7/2018 21:45					42.42828;-76.50229
11/7/2018 21:46			0.001	0.003	
11/7/2018 21:47			0.001	0.003	
11/7/2018 21:48			0.001	0.003	
11/7/2018 21:49			0.001	0.003	
11/7/2018 21:50	12.4	92.1	0.001	0.003	
11/7/2018 21:50					42.42824;-76.50229
11/7/2018 21:51			0.001	0.003	
11/7/2018 21:52			0.001	0.003	
11/7/2018 21:53			0.001	0.003	
11/7/2018 21:54			0.001	0.003	
11/7/2018 21:55	12.4	94.1	0.001	0.003	
11/7/2018 21:55					42.42822;-76.50233
11/7/2018 21:56			0.001	0.003	
11/7/2018 21:57			0.001	0.003	
11/7/2018 21:58			0.001	0.003	
11/7/2018 21:59			0.001	0.004	
11/7/2018 22:00	12.4	80	0.001	0.003	
11/7/2018 22:00					42.42826;-76.50232
11/7/2018 22:01			0.001	0.003	
11/7/2018 22:02			0.001	0.003	
11/7/2018 22:03			0.001	0.003	
11/7/2018 22:04			0.001	0.003	
11/7/2018 22:05	12.2	85	0.001	0.003	
11/7/2018 22:05					42.42826;-76.5023
11/8/2018 13:33	13.2	96.2			
11/8/2018 13:35	13.1	77.9			
11/8/2018 13:40	13	94.1			
11/8/2018 13:40					42.42801;-76.50256
11/8/2018 13:45	13	85			
11/8/2018 13:45					42.42803;-76.50242
11/8/2018 13:48	13	99.2			
11/8/2018 13:48					42.4305433;-76.50445719999999
11/8/2018 13:50	12.8	96.2			
11/8/2018 13:50					42.42802;-76.50256
11/8/2018 13:52			0	0.015	
11/8/2018 13:53			0	0.015	
11/8/2018 13:54			0	0.014	
11/8/2018 13:55	12.8	76.9	0	0.014	
11/8/2018 13:55					42.42798;-76.50249
11/8/2018 13:56			0	0.014	
11/8/2018 13:57			0	0.013	
11/8/2018 13:58			0	0.013	
11/8/2018 13:59			0	0.013	
11/8/2018 14:00	12.8	86	0	0.013	
11/8/2018 14:00					42.428;-76.50245
11/8/2018 14:01			0	0.012	
11/8/2018 14:02			0	0.012	
11/8/2018 14:03			0	0.012	
11/8/2018 14:04			0	0.012	
11/8/2018 14:05	12.8	86	0	0.012	
11/8/2018 14:05					42.42797;-76.50243
11/8/2018 14:06			0	0.012	
11/8/2018 14:07			0	0.013	
11/8/2018 14:08			0	0.012	
11/8/2018 14:09			0	0.012	
11/8/2018 14:10	12.8	80	0.001	0.012	
11/8/2018 14:10					42.42816;-76.50251
11/8/2018 14:11			0.001	0.012	
11/8/2018 14:12			0.001	0.012	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/8/2018 14:13			0.001	0.012	
11/8/2018 14:14			0.001	0.011	
11/8/2018 14:15	12.8	77.9	0.001	0.011	
11/8/2018 14:15					42.42779;-76.50237
11/8/2018 14:16			0.001	0.011	
11/8/2018 14:17			0.001	0.011	
11/8/2018 14:18			0.001	0.012	
11/8/2018 14:19			0.001	0.012	
11/8/2018 14:20	12.8	86	0.001	0.011	
11/8/2018 14:20					42.42785;-76.50256
11/8/2018 14:21			0.001	0.012	
11/8/2018 14:22			0.001	0.011	
11/8/2018 14:23			0.001	0.011	
11/8/2018 14:24			0.001	0.011	
11/8/2018 14:25	12.8	95.1	0.001	0.011	
11/8/2018 14:25					42.42794;-76.50235
11/8/2018 14:26			0.001	0.011	
11/8/2018 14:27			0.001	0.011	
11/8/2018 14:28			0.001	0.012	
11/8/2018 14:29			0.001	0.012	
11/8/2018 14:30	12.8	85	0.001	0.013	
11/8/2018 14:30					42.42798;-76.50233
11/8/2018 14:31			0.001	0.012	
11/8/2018 14:32			0.001	0.012	
11/8/2018 14:33			0.001	0.011	
11/8/2018 14:34			0.001	0.012	
11/8/2018 14:35	12.8	79	0.001	0.011	
11/8/2018 14:35					42.42789;-76.50222
11/8/2018 14:36			0.001	0.012	
11/8/2018 14:37			0.001	0.013	
11/8/2018 14:38			0.001	0.014	
11/8/2018 14:39			0.001	0.014	
11/8/2018 14:40	12.8	86	0.001	0.013	
11/8/2018 14:40					42.4281;-76.50229
11/8/2018 14:41			0.001	0.013	
11/8/2018 14:42			0.001	0.013	
11/8/2018 14:43			0.001	0.014	
11/8/2018 14:44			0.001	0.013	
11/8/2018 14:45	12.8	86	0.001	0.013	
11/8/2018 14:45					42.42786;-76.50225
11/8/2018 14:46			0.001	0.013	
11/8/2018 14:47			0.001	0.013	
11/8/2018 14:48			0.001	0.013	
11/8/2018 14:49			0.001	0.013	
11/8/2018 14:50	12.8	89.1	0.002	0.062	
11/8/2018 14:50					42.42781;-76.50245
11/8/2018 14:51			0.002	0.033	
11/8/2018 14:52			0.002	0.013	
11/8/2018 14:53			0.002	0.013	
11/8/2018 14:54			0.002	0.013	
11/8/2018 14:55	12.8	84	0.002	0.025	
11/8/2018 14:55					42.42804;-76.50226
11/8/2018 14:56			0.002	0.013	
11/8/2018 14:57			0.002	0.029	
11/8/2018 14:58			0.002	0.047	
11/8/2018 14:59			0.002	0.015	
11/8/2018 15:00	12.8	81	0.002	0.013	
11/8/2018 15:00					42.42779;-76.50246
11/8/2018 15:01			0.002	0.013	
11/8/2018 15:02			0.002	0.013	
11/8/2018 15:03			0.002	0.013	
11/8/2018 15:04			0.002	0.013	
11/8/2018 15:05	12.8	76.9	0.002	0.013	
11/8/2018 15:05					42.42771;-76.50237
11/8/2018 15:06			0.002	0.013	
11/8/2018 15:07			0.002	0.013	
11/8/2018 15:08			0.002	0.014	
11/8/2018 15:09			0.002	0.014	
11/8/2018 15:10	12.8	85	0.002	0.014	
11/8/2018 15:10					42.4276;-76.50244
11/8/2018 15:11			0.002	0.014	
11/8/2018 15:12			0.002	0.014	
11/8/2018 15:13			0.002	0.014	
11/8/2018 15:14			0.002	0.013	
11/8/2018 15:15	12.8	89.1	0.002	0.013	
11/8/2018 15:15					42.42773;-76.50238
11/8/2018 15:16			0.003	0.013	
11/8/2018 15:17			0.003	0.013	
11/8/2018 15:18			0.003	0.013	
11/8/2018 15:19			0.003	0.014	
11/8/2018 15:20	12.8	77.9	0.003	0.013	
11/8/2018 15:20					42.42776;-76.50237
11/8/2018 15:21			0.003	0.013	
11/8/2018 15:22			0.003	0.014	
11/8/2018 15:23			0.003	0.013	
11/8/2018 15:24			0.003	0.013	
11/8/2018 15:25	12.8	92.1	0.003	0.013	
11/8/2018 15:25					42.42774;-76.50246
11/8/2018 15:26			0.003	0.014	
11/8/2018 15:27			0.003	0.013	
11/8/2018 15:28			0.003	0.013	
11/8/2018 15:29			0.003	0.013	
11/8/2018 15:30	12.8	82	0.003	0.013	
11/8/2018 15:30					42.42771;-76.50233
11/8/2018 15:31			0.003	0.013	
11/8/2018 15:32			0.003	0.013	
11/8/2018 15:33			0.003	0.014	
11/8/2018 15:34			0.003	0.014	
11/8/2018 15:35	12.8	81	0.003	0.014	
11/8/2018 15:35					42.42779;-76.50232
11/8/2018 15:36			0.003	0.013	
11/8/2018 15:37			0.003	0.013	
11/8/2018 15:38			0.003	0.014	
11/8/2018 15:39			0.003	0.013	
11/8/2018 15:40	12.8	83	0.003	0.014	
11/8/2018 15:40					42.42785;-76.50241
11/8/2018 15:41			0.003	0.014	
11/8/2018 15:42			0.003	0.014	
11/8/2018 15:43			0.003	0.014	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/8/2018 15:44			0.003	0.014	
11/8/2018 15:45	12.8	80	0.003	0.014	
11/8/2018 15:45					42.42787;-76.50236
11/8/2018 15:46			0.003	0.014	
11/8/2018 15:47			0.003	0.014	
11/8/2018 15:48			0.003	0.014	
11/8/2018 15:49			0.003	0.014	
11/8/2018 15:50	12.8	80	0.003	0.014	
11/8/2018 15:50					42.42785;-76.50236
11/8/2018 15:51			0.004	0.014	
11/8/2018 15:52			0.004	0.013	
11/8/2018 15:53			0.004	0.013	
11/8/2018 15:54			0.004	0.013	
11/8/2018 15:55	12.8	79	0.004	0.013	
11/8/2018 15:55					42.42785;-76.50236
11/8/2018 15:56			0.004	0.013	
11/8/2018 15:57			0.004	0.014	
11/8/2018 15:58			0.004	0.013	
11/8/2018 15:59			0.004	0.013	
11/8/2018 16:00	12.8	89.1	0.004	0.013	
11/8/2018 16:00					42.42785;-76.50231
11/8/2018 16:01			0.004	0.013	
11/8/2018 16:02			0.004	0.013	
11/8/2018 16:03			0.004	0.013	
11/8/2018 16:04			0.004	0.013	
11/8/2018 16:05	12.8	81	0.004	0.013	
11/8/2018 16:05					42.4279;-76.50238
11/8/2018 16:06			0.004	0.013	
11/8/2018 16:07			0.004	0.013	
11/8/2018 16:08			0.004	0.013	
11/8/2018 16:09			0.004	0.014	
11/8/2018 16:10	12.8	77.9	0.004	0.015	
11/8/2018 16:10					42.42792;-76.50237
11/8/2018 16:11			0.004	0.014	
11/8/2018 16:12			0.004	0.013	
11/8/2018 16:13			0.004	0.013	
11/8/2018 16:14			0.004	0.013	
11/8/2018 16:15	12.8	77.9	0.004	0.012	
11/8/2018 16:15					42.42796;-76.50237
11/8/2018 16:16			0.004	0.012	
11/8/2018 16:17			0.004	0.012	
11/8/2018 16:18			0.004	0.012	
11/8/2018 16:19			0.004	0.012	
11/8/2018 16:20	12.8	86	0.004	0.012	42.4279;-76.50237
11/8/2018 16:21			0.004	0.012	
11/8/2018 16:22			0.004	0.012	
11/8/2018 16:23			0.004	0.012	
11/8/2018 16:24			0.004	0.012	
11/8/2018 16:25	12.8	89.1	0.004	0.012	42.42786;-76.50234
11/8/2018 16:26			0.004	0.012	
11/8/2018 16:27			0.004	0.012	
11/8/2018 16:28			0.004	0.012	
11/8/2018 16:29			0.005	0.012	
11/8/2018 16:30	12.8	82	0.005	0.012	42.42785;-76.50232
11/8/2018 16:31			0.005	0.013	
11/8/2018 16:32			0.005	0.013	
11/8/2018 16:33			0.005	0.013	
11/8/2018 16:34			0.005	0.014	
11/8/2018 16:35	12.8	82	0.005	0.014	42.4279;-76.5024
11/8/2018 16:36			0.005	0.014	
11/8/2018 16:37			0.005	0.014	
11/8/2018 16:38			0.005	0.014	
11/8/2018 16:39			0.005	0.014	
11/8/2018 16:40	12.8	82	0.005	0.013	42.42789;-76.50235
11/8/2018 16:41			0.005	0.014	
11/8/2018 16:42			0.005	0.013	
11/8/2018 16:43			0.005	0.012	
11/8/2018 16:44			0.005	0.012	
11/8/2018 16:45	12.8	82	0.005	0.012	42.42788;-76.50227
11/8/2018 16:46			0.005	0.012	
11/8/2018 16:47			0.005	0.012	
11/8/2018 16:48			0.005	0.012	
11/8/2018 16:49			0.005	0.012	
11/8/2018 16:50	12.8	83	0.005	0.012	42.42787;-76.50227
11/8/2018 16:51			0.005	0.015	
11/8/2018 16:52			0.005	0.013	
11/8/2018 16:53			0.005	0.012	
11/8/2018 16:54			0.005	0.012	
11/8/2018 16:55	12.8	84	0.005	0.012	42.42775;-76.5022
11/8/2018 16:56			0.005	0.012	
11/8/2018 16:57			0.005	0.012	
11/8/2018 16:58			0.005	0.012	
11/8/2018 16:59			0.005	0.011	
11/8/2018 17:00	12.8	90.1	0.005	0.013	42.42781;-76.50231
11/8/2018 17:01			0.005	0.012	
11/8/2018 17:02			0.005	0.012	
11/8/2018 17:03			0.005	0.012	
11/8/2018 17:04			0.005	0.012	
11/8/2018 17:05	12.7	77.9	0.005	0.012	42.42786;-76.5023
11/8/2018 17:06			0.005	0.012	
11/8/2018 17:07			0.006	0.012	
11/8/2018 17:08			0.006	0.012	
11/8/2018 17:09			0.006	0.012	
11/8/2018 17:10	12.7	89.1	0.006	0.013	42.42788;-76.50233
11/8/2018 17:11			0.006	0.013	
11/8/2018 17:12			0.006	0.012	
11/8/2018 17:13			0.006	0.012	
11/8/2018 17:14			0.006	0.012	
11/8/2018 17:15	12.8	88.1	0.006	0.012	42.42788;-76.50235
11/8/2018 17:16			0.006	0.012	
11/8/2018 17:17			0.006	0.012	
11/8/2018 17:18			0.006	0.012	
11/8/2018 17:19			0.006	0.011	
11/8/2018 17:20	12.7	86	0.006	0.012	42.42783;-76.50232
11/8/2018 17:21			0.006	0.011	
11/8/2018 17:22			0.006	0.012	
11/8/2018 17:23			0.006	0.012	
11/8/2018 17:24			0.006	0.011	
11/8/2018 17:25	12.7	79	0.006	0.012	42.42789;-76.50227

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/8/2018 17:26			0.006	0.011	
11/8/2018 17:27			0.006	0.011	
11/8/2018 17:28			0.006	0.011	
11/8/2018 17:29			0.006	0.011	
11/8/2018 17:30	12.7	82	0.006	0.011	42.42792;-76.50231
11/8/2018 17:31			0.006	0.01	
11/8/2018 17:32			0.006	0.011	
11/8/2018 17:33			0.006	0.011	
11/8/2018 17:34			0.006	0.01	
11/8/2018 17:35	12.7	86	0.006	0.01	42.42797;-76.50233
11/8/2018 17:36			0.006	0.01	
11/8/2018 17:37			0.006	0.01	
11/8/2018 17:38			0.006	0.01	
11/8/2018 17:39			0.006	0.01	
11/8/2018 17:40	12.7	79	0.006	0.01	42.42793;-76.50237
11/8/2018 17:41			0.006	0.01	
11/8/2018 17:42			0.006	0.011	
11/8/2018 17:43			0.006	0.011	
11/8/2018 17:44			0.006	0.011	
11/8/2018 17:45	12.7	86	0.006	0.01	42.42799;-76.5023
11/8/2018 17:46			0.006	0.01	
11/8/2018 17:47			0.006	0.011	
11/8/2018 17:48			0.006	0.01	
11/8/2018 17:49			0.006	0.01	
11/8/2018 17:50	12.7	80	0.007	0.012	42.42803;-76.5023
11/8/2018 17:51			0.007	0.011	
11/8/2018 17:52			0.007	0.009	
11/8/2018 17:53			0.007	0.009	
11/8/2018 17:54			0.007	0.009	
11/8/2018 17:55	12.7	98.2	0.007	0.009	42.42798;-76.5023
11/8/2018 17:56			0.007	0.009	
11/8/2018 17:57			0.007	0.009	
11/8/2018 17:58			0.007	0.009	
11/8/2018 17:59			0.007	0.009	
11/8/2018 18:00	12.7	80	0.007	0.009	42.42785;-76.50224
11/8/2018 18:01			0.007	0.009	
11/8/2018 18:02			0.007	0.009	
11/8/2018 18:03			0.007	0.009	
11/8/2018 18:04			0.007	0.009	
11/8/2018 18:05	12.7	80	0.007	0.008	42.4278;-76.50225
11/8/2018 18:06			0.007	0.008	
11/8/2018 18:07			0.007	0.008	
11/8/2018 18:08			0.007	0.009	
11/8/2018 18:09			0.007	0.009	
11/8/2018 18:10	12.7	79	0.007	0.009	42.42776;-76.50227
11/8/2018 18:11			0.007	0.009	
11/8/2018 18:12			0.007	0.009	
11/8/2018 18:13			0.007	0.009	
11/8/2018 18:14			0.007	0.009	
11/8/2018 18:15	12.7	84	0.007	0.009	42.42791;-76.50234
11/8/2018 18:16			0.007	0.009	
11/8/2018 18:17			0.007	0.009	
11/8/2018 18:18			0.007	0.009	
11/8/2018 18:19			0.007	0.009	
11/8/2018 18:20	12.7	90.1	0.007	0.008	42.42787;-76.50228
11/8/2018 18:21			0.007	0.008	
11/8/2018 18:22			0.007	0.008	
11/8/2018 18:23			0.007	0.008	
11/8/2018 18:24			0.007	0.008	
11/8/2018 18:25	12.7	88.1	0.007	0.008	42.42793;-76.50237
11/8/2018 18:26			0.007	0.008	
11/8/2018 18:27			0.007	0.008	
11/8/2018 18:28			0.007	0.008	
11/8/2018 18:29			0.007	0.008	
11/8/2018 18:30	12.7	84	0.007	0.008	42.42795;-76.50228
11/8/2018 18:31			0.007	0.008	
11/8/2018 18:32			0.007	0.008	
11/8/2018 18:33			0.007	0.008	
11/8/2018 18:34			0.007	0.008	
11/8/2018 18:35	12.7	80	0.007	0.008	42.42797;-76.50236
11/8/2018 18:36			0.007	0.008	
11/8/2018 18:37			0.007	0.007	
11/8/2018 18:38			0.007	0.008	
11/8/2018 18:39			0.007	0.008	
11/8/2018 18:40	12.7	96.2	0.007	0.008	
11/8/2018 18:40					42.4279;-76.5024
11/8/2018 18:41			0.007	0.008	
11/8/2018 18:42			0.007	0.007	
11/8/2018 18:43			0.007	0.007	
11/8/2018 18:44			0.007	0.007	
11/8/2018 18:45	12.7	79	0.007	0.008	
11/8/2018 18:45					42.4279;-76.50232
11/8/2018 18:46			0.007	0.007	
11/8/2018 18:47			0.008	0.01	
11/8/2018 18:48			0.008	0.007	
11/8/2018 18:49			0.008	0.008	
11/8/2018 18:50	12.7	84	0.008	0.008	
11/8/2018 18:50					42.42789;-76.50235
11/8/2018 18:51			0.008	0.012	
11/8/2018 18:52			0.008	0.007	
11/8/2018 18:53			0.008	0.007	
11/8/2018 18:54			0.008	0.008	
11/8/2018 18:55	12.7	79	0.008	0.007	
11/8/2018 18:55					42.42783;-76.50235
11/8/2018 18:56			0.008	0.007	
11/8/2018 18:57			0.008	0.007	
11/8/2018 18:58			0.008	0.007	
11/8/2018 18:59			0.008	0.007	
11/8/2018 19:00	12.7	83	0.008	0.007	
11/8/2018 19:00					42.42789;-76.50233
11/8/2018 19:01			0.008	0.007	
11/8/2018 19:02			0.008	0.007	
11/8/2018 19:03			0.008	0.007	
11/8/2018 19:04			0.008	0.007	
11/8/2018 19:05	12.7	79	0.008	0.007	
11/8/2018 19:05					42.42786;-76.50228
11/8/2018 19:06			0.008	0.008	
11/8/2018 19:07			0.008	0.008	
11/8/2018 19:08			0.008	0.007	

Appendix F

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/8/2018 19:09			0.008	0.007	
11/8/2018 19:10	12.7	87	0.008	0.007	
11/8/2018 19:10					42.42782;-76.50235
11/8/2018 19:11			0.008	0.007	
11/8/2018 19:12			0.008	0.007	
11/8/2018 19:13			0.008	0.008	
11/8/2018 19:14			0.008	0.008	
11/8/2018 19:15	12.7	84	0.008	0.007	
11/8/2018 19:15					42.42784;-76.50231
11/8/2018 19:16			0.008	0.008	
11/8/2018 19:17			0.008	0.007	
11/8/2018 19:18			0.008	0.007	
11/8/2018 19:19			0.008	0.008	
11/8/2018 19:20	12.7	79	0.008	0.008	
11/8/2018 19:20					42.42779;-76.50239
11/8/2018 19:21			0.008	0.008	
11/8/2018 19:22			0.008	0.008	
11/8/2018 19:23			0.008	0.008	
11/8/2018 19:24			0.008	0.008	
11/8/2018 19:25	12.7	80	0.008	0.008	
11/8/2018 19:25					42.42779;-76.50236
11/8/2018 19:26			0.008	0.008	
11/8/2018 19:27			0.008	0.008	
11/8/2018 19:28			0.008	0.008	
11/8/2018 19:29			0.008	0.008	
11/8/2018 19:30	12.7	83	0.008	0.008	
11/8/2018 19:30					42.42779;-76.50235
11/8/2018 19:31			0.008	0.008	
11/8/2018 19:32			0.008	0.008	
11/8/2018 19:33			0.008	0.008	
11/8/2018 19:34			0.008	0.008	
11/8/2018 19:35	12.7	81		0.008	
11/8/2018 19:35					42.42797;-76.5024
11/8/2018 19:40	12.9	84			
11/8/2018 19:40					42.42765;-76.50135
11/8/2018 19:45	12.9	76.9			42.4321;-76.49832
11/8/2018 19:50	12.9	89.1			42.43224;-76.49809
11/8/2018 19:55	12.9	88.1			42.43224;-76.49812
11/8/2018 20:00	12.9	76.9			42.43223;-76.49814
11/8/2018 20:05	12.9	80			42.43222;-76.49812
11/8/2018 20:10	12.9	82			42.43219;-76.49812
11/8/2018 20:15	12.9	81			42.43219;-76.49812
11/8/2018 20:20	12.9	77.9			42.43212;-76.49817
11/8/2018 20:25	12.9	80			42.43214;-76.49811
11/8/2018 20:30	12.9	76.9			42.43217;-76.49814
11/8/2018 20:35	12.9	84			42.43223;-76.49825
11/8/2018 20:40	12.9	87			
11/8/2018 20:40					42.43166;-76.49833
11/8/2018 20:45	12.9	75.9			42.43218;-76.49805
11/8/2018 20:50	12.9	77.9			42.43219;-76.49821
11/8/2018 20:55	12.9	77.9			42.43228;-76.49806
11/8/2018 21:00	12.9	75.9			42.43222;-76.49818
11/8/2018 21:05	12.9	83			42.43234;-76.49823
11/8/2018 21:10	12.9	76.9			42.43226;-76.49816
11/8/2018 21:15	12.9	83			42.43225;-76.49825
11/8/2018 21:20	12.9	84			42.43228;-76.49823
11/8/2018 21:25	12.9	77.9			42.4327;-76.49754
11/8/2018 21:30	13.5	90.1			
11/8/2018 21:35	13.6	73.9			
11/8/2018 21:40	13.7	76.9			
11/8/2018 21:45	13.7	91.1			42.43236;-76.49664
11/8/2018 21:50	13.7	73.9			42.4319;-76.49747
11/8/2018 21:55	13.8	89.1			42.43178;-76.49731
11/8/2018 22:00	13.8	92.1			42.43221;-76.49716
11/8/2018 22:05	13.8	77.9			
11/8/2018 22:10	13.8	71.9			
11/8/2018 22:15	13.9	72.9			
11/8/2018 22:20	13.9	88.1			
11/8/2018 22:25	14	70.9			
11/8/2018 22:30	14	79			
11/8/2018 22:35	14.1	69.8			
11/8/2018 22:40	14.2	70.9			42.43131;-76.49693
11/8/2018 22:45	14.3	70.9			42.43208;-76.49729
11/8/2018 22:50	14.4	74.9			
11/8/2018 22:55	14.5	80			
11/8/2018 23:00	14.6	70.9			
11/8/2018 23:05	14.8	66.8			
11/8/2018 23:10	14.8	69.8			
11/8/2018 23:15	14.8	74.9			
11/8/2018 23:15					42.432438;-76.4969924
11/8/2018 23:20	14.8	83			
11/8/2018 23:25	14.8	57.7			
11/8/2018 23:30	14.8	73.9			
11/8/2018 23:35	14.8	68.8			
11/8/2018 23:40	14.7	77.9			
11/8/2018 23:45	14.8	71.9			
11/8/2018 23:50	14.8	67.8			
11/8/2018 23:55	14.8	72.9			
11/9/2018 0:00	14.8	67.8			
11/9/2018 0:05	14.8	67.8			
11/9/2018 0:10	14.8	67.8			
11/9/2018 0:15	14.7	75.9			
11/9/2018 0:20	14.8	68.8			
11/9/2018 0:25	14.8	80			
11/9/2018 0:25					42.4324237;-76.4969916
11/9/2018 0:30	14.8	70.9			
11/9/2018 0:35	14.8	74.9			
11/9/2018 0:40	14.8	68.8			
11/9/2018 0:45	14.9	73.9			
11/9/2018 0:50	14.8	86			
11/9/2018 0:55	14.8	72.9			
11/9/2018 1:00	14.7	75.9			
11/9/2018 1:05	14.8	68.8			
11/9/2018 1:10	14.7	72.9			
11/9/2018 1:15	14.8	84			
11/9/2018 1:20	14.9	72.9			
11/9/2018 1:25	14.9	79			
11/9/2018 1:30	14.8	73.9			
11/9/2018 1:35	14.8	71.9			

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/9/2018 1:35					42.4324237;-76.4969916
11/9/2018 1:40	14.7	73.9			
11/9/2018 1:45	14.6	74.9			
11/9/2018 1:50	14.7	79			
11/9/2018 1:55	14.7	73.9			
11/9/2018 2:00	14.8	73.9			
11/9/2018 2:05	14.9	74.9			
11/9/2018 2:10	14.8	74.9			
11/9/2018 2:15	14.8	83			
11/9/2018 2:20	14.8	77.9			
11/9/2018 2:25	13.7	87			
11/9/2018 2:30	13.4	80			
11/9/2018 2:35	13.4	81			
11/9/2018 2:40	13.3	82			
11/9/2018 2:45	13.3	81			
11/9/2018 2:50	13.3	91.1			
11/9/2018 2:55	13.3	79			
11/9/2018 3:00	13.3	81			
11/9/2018 3:05	13.3	92.1			
11/9/2018 3:10	13.3	84			
11/9/2018 3:15	13.3	90.1			
11/9/2018 3:20	13.3	84			
11/9/2018 3:25	13.3	81			
11/9/2018 3:30	13.3	99.2			
11/9/2018 3:35	13.3	82			
11/9/2018 3:40	13.2	81			
11/9/2018 3:45	13.2	84			
11/9/2018 3:50	13.2	81			
11/9/2018 3:55	13.2	82			
11/9/2018 3:55					42.4324237;-76.4969916
11/9/2018 4:00	13.2	81			
11/9/2018 4:05	13.2	82			
11/9/2018 4:10	13.2	75.9			
11/9/2018 4:15	13.2	93.1			
11/9/2018 4:20	13.2	83			
11/9/2018 4:25	13.2	71.9			
11/9/2018 4:30	13.2	74.9			
11/9/2018 4:35	13.2	81			
11/9/2018 4:40	13.2	86			
11/9/2018 4:45	13.2	82			
11/9/2018 4:50	13.2	81			
11/9/2018 4:55	13.2	81			
11/9/2018 5:00	13.2	82			
11/9/2018 5:05	13.2	81			
11/9/2018 5:10	13.2	92.1			
11/9/2018 5:15	13.2	82			
11/9/2018 5:20	13.2	83			
11/9/2018 5:25	13.2	75.9			
11/9/2018 5:30	13.2	81			
11/9/2018 5:35	13.2	79			
11/9/2018 5:40	13.2	92.1			
11/9/2018 5:40					42.4324237;-76.4969916
11/9/2018 5:45	13.2	80			
11/9/2018 5:50	13.2	85			
11/9/2018 5:55	13.2	62.8			
11/9/2018 6:00	13.2	76.9			
11/9/2018 6:05	13.2	93.1			
11/9/2018 6:10	13.2	77.9			
11/9/2018 6:15	13.2	81			
11/9/2018 6:20	13.2	82			
11/9/2018 6:25	13.2	84			
11/9/2018 6:30	13.2	83			
11/9/2018 6:35	13.2	82			
11/9/2018 6:40	13.2	92.1			
11/9/2018 6:45	13.2	83			
11/9/2018 6:50	13.2	82			
11/9/2018 6:55	13.2	82			
11/9/2018 7:00	13.2	83			
11/9/2018 7:05	13.2	92.1			
11/9/2018 7:10	13.2	77.9			
11/9/2018 7:15	13.2	70.9			
11/9/2018 7:20	13.2	81			
11/9/2018 7:25	13.2	83			
11/9/2018 7:30	13.2	86			
11/9/2018 7:35	13.2	81			
11/9/2018 7:40	13.1	101.2			
11/9/2018 7:45	13.2	82			
11/9/2018 7:50	13.1	83			
11/9/2018 7:55	13.2	93.1			
11/9/2018 8:00	13.2	86			
11/9/2018 8:00					42.4324237;-76.4969916
11/9/2018 8:05	13.2	94.1			
11/9/2018 8:10	13.1	102.2			
11/9/2018 8:15	13.1	81			
11/9/2018 8:20	13.1	91.1			
11/9/2018 8:25	13.1	83			
11/9/2018 8:30	13.1	83			
11/9/2018 8:35	13.1	80			
11/9/2018 8:40	13.2	68.8			
11/9/2018 8:45	13.1	98.2			
11/9/2018 8:50	13.1	84			
11/9/2018 8:55	13.1	84			
11/9/2018 9:00	13.1	83			
11/9/2018 9:05	13.1	83			
11/9/2018 9:10	13.1	87			
11/9/2018 9:10					42.4324237;-76.4969916
11/9/2018 9:15	13.1	75.9			
11/9/2018 9:20	13.1	79			
11/9/2018 9:25	13.1	91.1			
11/9/2018 9:30	13.1	80			
11/9/2018 9:35	13.1	82			
11/9/2018 9:40	13.1	81			
11/9/2018 9:45	13.1	81			
11/9/2018 9:50	13.1	94.1			
11/9/2018 9:55	13.1	85			
11/9/2018 10:00	13.1	83			
11/9/2018 10:05	13.1	83			
11/9/2018 10:10	13.1	76.9			
11/9/2018 10:15	13.1	93.1			

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/9/2018 10:20	13.1	81			
11/9/2018 10:25	13.1	75.9			
11/9/2018 10:30	13.1	81			
11/9/2018 10:35	13.1	80			
11/9/2018 10:40	13.1	76.9			
11/9/2018 10:45	13.1	82			
11/9/2018 10:50	13.1	86			
11/9/2018 10:55	13.1	83			
11/9/2018 11:00	13.1	82			
11/9/2018 11:05	13.1	82			
11/9/2018 11:10	13.1	90.1			
11/9/2018 11:15	13.1	75.9			
11/9/2018 11:20	13.1	79			
11/9/2018 11:25	13.1	77.9			
11/9/2018 11:30	13.1	83			
11/9/2018 11:35	13.1	94.1			
11/9/2018 11:40	13.1	82			
11/9/2018 11:45	13.1	83			
11/9/2018 11:50	13.1	83			
11/9/2018 11:55	13.1	81			
11/9/2018 12:00	13.1	92.1			
11/9/2018 12:05	13.1	83			
11/9/2018 12:10	13.1	79			
11/9/2018 13:05					42.43271;-76.49847
11/9/2018 13:06			0	0.014	
11/9/2018 13:07			0	0.014	
11/9/2018 13:08			0	0.013	
11/9/2018 13:09			0	0.013	
11/9/2018 13:10	12.8	76.9	0	0.013	42.43262;-76.4984
11/9/2018 13:11			0	0.012	
11/9/2018 13:12			0	0.012	
11/9/2018 13:13			0	0.012	
11/9/2018 13:14			0	0.012	
11/9/2018 13:15	12.8	79	0	0.011	42.43268;-76.49844
11/9/2018 13:16			0	0.012	
11/9/2018 13:17			0	0.011	
11/9/2018 13:18			0	0.011	
11/9/2018 13:19			0	0.011	
11/9/2018 13:20	12.7	76.9	0	0.011	42.43275;-76.49835
11/9/2018 13:21			0	0.011	
11/9/2018 13:22			0.001	0.011	
11/9/2018 13:23			0.001	0.01	
11/9/2018 13:24			0.001	0.01	
11/9/2018 13:25	12.8	92.1	0.001	0.011	42.43277;-76.49844
11/9/2018 13:26			0.001	0.01	
11/9/2018 13:27			0.001	0.01	
11/9/2018 13:28			0.001	0.01	
11/9/2018 13:29			0.001	0.01	
11/9/2018 13:30	12.8	103.2	0.001	0.009	
11/9/2018 13:30					42.43274;-76.49838
11/9/2018 13:31			0.001	0.009	
11/9/2018 13:32			0.001	0.009	
11/9/2018 13:33			0.001	0.009	
11/9/2018 13:34			0.001	0.009	
11/9/2018 13:35	12.8	74.9	0.001	0.009	42.43276;-76.49847
11/9/2018 13:36			0.001	0.009	
11/9/2018 13:37			0.001	0.009	
11/9/2018 13:38			0.001	0.009	
11/9/2018 13:39			0.001	0.009	
11/9/2018 13:40	12.8	89.1	0.001	0.009	42.4327;-76.49844
11/9/2018 13:41			0.001	0.009	
11/9/2018 13:42			0.001	0.009	
11/9/2018 13:43			0.001	0.009	
11/9/2018 13:44			0.001	0.01	
11/9/2018 13:45	12.8	77.9	0.001	0.01	42.4328;-76.4984
11/9/2018 13:46			0.001	0.01	
11/9/2018 13:47			0.001	0.011	
11/9/2018 13:48			0.001	0.011	
11/9/2018 13:49			0.001	0.011	
11/9/2018 13:50	12.8	77.9	0.001	0.01	42.43279;-76.49838
11/9/2018 13:51			0.001	0.01	
11/9/2018 13:52			0.001	0.01	
11/9/2018 13:53			0.001	0.01	
11/9/2018 13:54			0.001	0.011	
11/9/2018 13:55	12.8	85	0.001	0.01	42.43274;-76.49833
11/9/2018 13:56			0.001	0.01	
11/9/2018 13:57			0.001	0.01	
11/9/2018 13:58			0.001	0.01	
11/9/2018 13:59			0.001	0.01	
11/9/2018 14:00	12.8	87	0.001	0.01	42.43282;-76.49833
11/9/2018 14:01			0.001	0.01	
11/9/2018 14:02			0.001	0.01	
11/9/2018 14:03			0.001	0.01	
11/9/2018 14:04			0.001	0.01	
11/9/2018 14:05	12.8	75.9	0.001	0.01	42.43283;-76.49833
11/9/2018 14:06			0.001	0.009	
11/9/2018 14:07			0.001	0.009	
11/9/2018 14:08			0.001	0.009	
11/9/2018 14:09			0.001	0.009	
11/9/2018 14:10	12.8	83	0.001	0.009	42.43276;-76.49841
11/9/2018 14:11			0.002	0.009	
11/9/2018 14:12			0.002	0.01	
11/9/2018 14:13			0.002	0.01	
11/9/2018 14:14			0.002	0.011	
11/9/2018 14:15	12.8	80	0.002	0.01	42.43283;-76.49827
11/9/2018 14:16			0.002	0.009	
11/9/2018 14:17			0.002	0.009	
11/9/2018 14:18			0.002	0.01	
11/9/2018 14:19			0.002	0.01	
11/9/2018 14:20	12.8	76.9	0.002	0.01	42.4343;-76.49554
11/9/2018 14:21			0.002	0.011	
11/9/2018 14:22			0.002	0.012	
11/9/2018 14:23			0.002	0.013	
11/9/2018 14:24			0.002	0.014	
11/9/2018 14:25	12.8	82	0.002	0.011	42.43312;-76.49802
11/9/2018 14:26			0.002	0.011	
11/9/2018 14:27			0.002	0.011	
11/9/2018 14:28			0.002	0.014	
11/9/2018 14:29			0.002	0.011	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/9/2018 14:30	12.8	89.1	0.002	0.011	42.43283;-76.49821
11/9/2018 14:31			0.002	0.01	
11/9/2018 14:32			0.002	0.01	
11/9/2018 14:33			0.002	0.01	
11/9/2018 14:34			0.002	0.009	
11/9/2018 14:35	12.8	79	0.002	0.009	42.4328;-76.49824
11/9/2018 14:36			0.002	0.009	
11/9/2018 14:37			0.002	0.009	
11/9/2018 14:38			0.002	0.009	
11/9/2018 14:39			0.002	0.009	
11/9/2018 14:40	12.7	79	0.002	0.009	42.43274;-76.49831
11/9/2018 14:41			0.002	0.009	
11/9/2018 14:42			0.002	0.009	
11/9/2018 14:43			0.002	0.009	
11/9/2018 14:44			0.002	0.009	
11/9/2018 14:45	12.7	77.9	0.002	0.008	42.43272;-76.49831
11/9/2018 14:46			0.002	0.01	
11/9/2018 14:47			0.002	0.01	
11/9/2018 14:48			0.002	0.01	
11/9/2018 14:49			0.002	0.01	
11/9/2018 14:50	12.7	81	0.002	0.009	42.43264;-76.49832
11/9/2018 14:51			0.002	0.008	
11/9/2018 14:52			0.002	0.008	
11/9/2018 14:53			0.002	0.009	
11/9/2018 14:54			0.002	0.009	
11/9/2018 14:55	12.7	77.9	0.002	0.01	42.43266;-76.49824
11/9/2018 14:56			0.002	0.009	
11/9/2018 14:57			0.002	0.008	
11/9/2018 14:58			0.002	0.008	
11/9/2018 14:59			0.003	0.008	
11/9/2018 15:00	12.7	92.1	0.003	0.008	42.43269;-76.49815
11/9/2018 15:01			0.003	0.008	
11/9/2018 15:02			0.003	0.008	
11/9/2018 15:03			0.003	0.008	
11/9/2018 15:04			0.003	0.008	
11/9/2018 15:05	12.7	85	0.003	0.007	42.43268;-76.49833
11/9/2018 15:06			0.003	0.008	
11/9/2018 15:07			0.003	0.007	
11/9/2018 15:08			0.003	0.007	
11/9/2018 15:09			0.003	0.007	
11/9/2018 15:10	12.7	82	0.003	0.007	42.43276;-76.49838
11/9/2018 15:11			0.003	0.007	
11/9/2018 15:12			0.003	0.007	
11/9/2018 15:13			0.003	0.007	
11/9/2018 15:14			0.003	0.007	
11/9/2018 15:15	12.7	79	0.003	0.007	42.43272;-76.49836
11/9/2018 15:16			0.003	0.007	
11/9/2018 15:17			0.003	0.007	
11/9/2018 15:18			0.003	0.007	
11/9/2018 15:19			0.003	0.007	
11/9/2018 15:20	12.6	80	0.003	0.007	42.43274;-76.49825
11/9/2018 15:21			0.003	0.007	
11/9/2018 15:22			0.003	0.007	
11/9/2018 15:23			0.003	0.007	
11/9/2018 15:24			0.003	0.007	
11/9/2018 15:25	12.7	80	0.003	0.007	42.43272;-76.49833
11/9/2018 15:26			0.003	0.007	
11/9/2018 15:27			0.003	0.007	
11/9/2018 15:28			0.003	0.007	
11/9/2018 15:29			0.003	0.007	
11/9/2018 15:30	12.7	77.9	0.003	0.007	42.4327;-76.49834
11/9/2018 15:31			0.003	0.007	
11/9/2018 15:32			0.003	0.007	
11/9/2018 15:33			0.003	0.007	
11/9/2018 15:34			0.003	0.006	
11/9/2018 15:35	12.6	77.9	0.003	0.008	42.43272;-76.49836
11/9/2018 15:36			0.003	0.008	
11/9/2018 15:37			0.003	0.007	
11/9/2018 15:38			0.003	0.007	
11/9/2018 15:39			0.003	0.006	
11/9/2018 15:40	12.6	84	0.003	0.006	42.43274;-76.49834
11/9/2018 15:41			0.003	0.006	
11/9/2018 15:42			0.003	0.006	
11/9/2018 15:43			0.003	0.006	
11/9/2018 15:44			0.003	0.006	
11/9/2018 15:45	12.6	85	0.003	0.006	42.43275;-76.4984
11/9/2018 15:46			0.003	0.007	
11/9/2018 15:47			0.003	0.007	
11/9/2018 15:48			0.003	0.006	
11/9/2018 15:49			0.003	0.006	
11/9/2018 15:50	12.6	85	0.003	0.007	42.43261;-76.49836
11/9/2018 15:51			0.003	0.007	
11/9/2018 15:52			0.003	0.006	
11/9/2018 15:53			0.003	0.006	
11/9/2018 15:54			0.003	0.007	
11/9/2018 15:55	12.6	79	0.003	0.006	42.43269;-76.49837
11/9/2018 15:56			0.003	0.006	
11/9/2018 15:57			0.003	0.006	
11/9/2018 15:58			0.003	0.006	
11/9/2018 15:59			0.003	0.006	
11/9/2018 16:00	12.6	77.9	0.003	0.006	42.43267;-76.49834
11/9/2018 16:01			0.003	0.006	
11/9/2018 16:02			0.003	0.006	
11/9/2018 16:03			0.003	0.006	
11/9/2018 16:04			0.003	0.006	
11/9/2018 16:05	12.6	80	0.003	0.007	42.43269;-76.49838
11/9/2018 16:06			0.003	0.007	
11/9/2018 16:07			0.003	0.006	
11/9/2018 16:08			0.003	0.006	
11/9/2018 16:09			0.003	0.006	
11/9/2018 16:10	12.6	77.9	0.004	0.006	42.43268;-76.49837
11/9/2018 16:11			0.004	0.006	
11/9/2018 16:12			0.004	0.006	
11/9/2018 16:13			0.004	0.006	
11/9/2018 16:14			0.004	0.006	
11/9/2018 16:15	12.6	79	0.004	0.006	42.4327;-76.49838
11/9/2018 16:16			0.004	0.006	
11/9/2018 16:17			0.004	0.006	
11/9/2018 16:18			0.004	0.006	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/9/2018 16:19			0.004	0.006	
11/9/2018 16:20	12.6	81	0.004	0.006	42.4327;-76.49837
11/9/2018 16:21			0.004	0.006	
11/9/2018 16:22			0.004	0.006	
11/9/2018 16:23			0.004	0.006	
11/9/2018 16:24			0.004	0.006	
11/9/2018 16:25	12.6	79	0.004	0.006	42.43267;-76.49832
11/9/2018 16:26			0.004	0.006	
11/9/2018 16:27			0.004	0.006	
11/9/2018 16:28			0.004	0.006	
11/9/2018 16:29			0.004	0.006	
11/9/2018 16:30	12.6	85	0.004	0.006	42.43294;-76.49864
11/9/2018 16:31			0.004	0.006	
11/9/2018 16:32			0.004	0.006	
11/9/2018 16:33			0.004	0.006	
11/9/2018 16:34			0.004	0.006	
11/9/2018 16:35	12.6	87	0.004	0.006	42.4327;-76.49831
11/9/2018 16:36			0.004	0.006	
11/9/2018 16:37			0.004	0.006	
11/9/2018 16:38			0.004	0.006	
11/9/2018 16:39			0.004	0.006	
11/9/2018 16:40	12.6	89.1	0.004	0.006	42.43266;-76.4983
11/9/2018 16:41			0.004	0.006	
11/9/2018 16:42			0.004	0.007	
11/9/2018 16:43			0.004	0.007	
11/9/2018 16:44			0.004	0.007	
11/9/2018 16:45	12.6	77.9	0.004	0.007	42.4329;-76.49854
11/9/2018 16:46			0.004	0.007	
11/9/2018 16:47			0.004	0.007	
11/9/2018 16:48			0.004	0.007	
11/9/2018 16:49			0.004	0.007	
11/9/2018 16:50	12.5	87	0.004	0.007	42.43281;-76.4984
11/9/2018 16:51			0.004	0.007	
11/9/2018 16:52			0.004	0.006	
11/9/2018 16:53			0.004	0.006	
11/9/2018 16:54			0.004	0.006	
11/9/2018 16:55	12.6	79	0.004	0.006	42.43277;-76.49837
11/9/2018 16:56			0.004	0.006	
11/9/2018 16:57			0.004	0.006	
11/9/2018 16:58			0.004	0.006	
11/9/2018 16:59			0.004	0.006	
11/9/2018 17:00	12.5	84	0.004	0.006	42.43273;-76.49835
11/9/2018 17:01			0.004	0.006	
11/9/2018 17:02			0.004	0.006	
11/9/2018 17:03			0.004	0.006	
11/9/2018 17:04			0.004	0.006	
11/9/2018 17:05	12.5	92.1	0.004	0.006	42.43279;-76.49841
11/9/2018 17:06			0.004	0.006	
11/9/2018 17:07			0.004	0.006	
11/9/2018 17:08			0.004	0.006	
11/9/2018 17:09			0.004	0.006	
11/9/2018 17:10	12.5	82	0.004	0.006	42.4328;-76.4986
11/9/2018 17:11			0.004	0.006	
11/9/2018 17:12			0.004	0.006	
11/9/2018 17:13			0.004	0.006	
11/9/2018 17:14			0.004	0.006	
11/9/2018 17:15	12.5	81	0.004	0.006	42.43276;-76.4983
11/9/2018 17:16			0.004	0.006	
11/9/2018 17:17			0.004	0.006	
11/9/2018 17:18			0.004	0.006	
11/9/2018 17:19			0.004	0.006	
11/9/2018 17:20	12.5	91.1	0.004	0.006	42.43271;-76.49831
11/9/2018 17:21			0.004	0.006	
11/9/2018 17:22			0.004	0.006	
11/9/2018 17:23			0.004	0.006	
11/9/2018 17:24			0.004	0.006	
11/9/2018 17:25	12.5	81	0.004	0.006	42.43272;-76.49832
11/9/2018 17:26			0.004	0.006	
11/9/2018 17:27			0.004	0.006	
11/9/2018 17:28			0.005	0.006	
11/9/2018 17:29			0.005	0.006	
11/9/2018 17:30	12.5	85	0.005	0.006	42.4327;-76.49834
11/9/2018 17:31			0.005	0.006	
11/9/2018 17:32			0.005	0.006	
11/9/2018 17:33			0.005	0.006	
11/9/2018 17:34			0.005	0.006	
11/9/2018 17:35	12.5	89.1	0.005	0.006	42.43291;-76.49823
11/9/2018 17:36			0.005	0.006	
11/9/2018 17:37			0.005	0.006	
11/9/2018 17:38			0.005	0.006	
11/9/2018 17:39			0.005	0.006	
11/9/2018 17:40	12.5	82	0.005	0.006	42.43278;-76.49824
11/9/2018 17:41			0.005	0.006	
11/9/2018 17:42			0.005	0.006	
11/9/2018 17:43			0.005	0.006	
11/9/2018 17:44			0.005	0.006	
11/9/2018 17:45	12.5	79	0.005	0.006	42.43279;-76.49825
11/9/2018 17:46			0.005	0.006	
11/9/2018 17:47			0.005	0.006	
11/9/2018 17:48			0.005	0.006	
11/9/2018 17:49			0.005	0.006	
11/9/2018 17:50	12.5	79	0.005	0.007	42.43273;-76.49834
11/9/2018 17:51			0.005	0.007	
11/9/2018 17:52			0.005	0.007	
11/9/2018 17:53			0.005	0.007	
11/9/2018 17:54			0.005	0.007	
11/9/2018 17:55	12.5	82	0.005	0.007	42.43267;-76.49836
11/9/2018 17:56			0.005	0.007	
11/9/2018 17:57			0.005	0.007	
11/9/2018 17:58			0.005	0.007	
11/9/2018 17:59			0.005	0.007	
11/9/2018 18:00	12.5	85	0.005	0.007	42.43269;-76.49837
11/9/2018 18:01			0.005	0.007	
11/9/2018 18:02			0.005	0.007	
11/9/2018 18:03			0.005	0.007	
11/9/2018 18:04			0.005	0.007	
11/9/2018 18:05	12.5	81	0.005	0.007	42.43269;-76.49836
11/9/2018 18:06			0.005	0.008	
11/9/2018 18:07			0.005	0.008	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/9/2018 18:08			0.005	0.008	
11/9/2018 18:09			0.005	0.008	
11/9/2018 18:10	12.5	80	0.005	0.008	42.4327;-76.49837
11/9/2018 18:11			0.005	0.008	
11/9/2018 18:12			0.005	0.008	
11/9/2018 18:13			0.005	0.008	
11/9/2018 18:14			0.005	0.008	
11/9/2018 18:15	12.5	92.1	0.005	0.008	42.43274;-76.49834
11/9/2018 18:16			0.005	0.008	
11/9/2018 18:17			0.005	0.008	
11/9/2018 18:18			0.005	0.008	
11/9/2018 18:19			0.005	0.008	
11/9/2018 18:20	12.5	77.9	0.005	0.008	42.43272;-76.49831
11/9/2018 18:21			0.005	0.008	
11/9/2018 18:22			0.005	0.008	
11/9/2018 18:23			0.005	0.008	
11/9/2018 18:24			0.005	0.008	
11/9/2018 18:25	12.4	80	0.005	0.008	42.43273;-76.49834
11/9/2018 18:26			0.005	0.008	
11/9/2018 18:27			0.005	0.008	
11/9/2018 18:28			0.005	0.008	
11/9/2018 18:29			0.005	0.008	
11/9/2018 18:30	12.5	79	0.005	0.008	42.43276;-76.49834
11/9/2018 18:31			0.005	0.008	
11/9/2018 18:32			0.005	0.008	
11/9/2018 18:33			0.005	0.008	
11/9/2018 18:34			0.005	0.009	
11/9/2018 18:35	12.5	77.9	0.006	0.01	42.43284;-76.49837
11/9/2018 18:36			0.006	0.008	
11/9/2018 18:37			0.006	0.007	
11/10/2018 12:48	12.9	96.2			
11/10/2018 12:50	12.9	75.9			
11/10/2018 12:50					42.42767;-76.50203
11/10/2018 12:51			0	0.012	
11/10/2018 12:52			0	0.016	
11/10/2018 12:53	12.8	98.2			
11/10/2018 12:55	12.8	107.3			
11/10/2018 12:55					42.42754;-76.50198
11/10/2018 12:57			0	0.013	
11/10/2018 12:58			0	0.012	
11/10/2018 12:59			0	0.012	
11/10/2018 13:00	12.8	77.9	0	0.012	
11/10/2018 13:00					42.42758;-76.502
11/10/2018 13:01			0	0.012	
11/10/2018 13:02			0	0.012	
11/10/2018 13:03			0	0.012	
11/10/2018 13:04			0	0.012	
11/10/2018 13:05	12.8	85	0	0.012	
11/10/2018 13:05					42.42755;-76.50194
11/10/2018 13:06			0	0.012	
11/10/2018 13:07			0	0.011	
11/10/2018 13:08			0	0.012	
11/10/2018 13:09			0	0.011	
11/10/2018 13:10	12.8	75.9	0	0.012	
11/10/2018 13:10					42.42756;-76.50195
11/10/2018 13:11			0	0.012	
11/10/2018 13:12			0	0.012	
11/10/2018 13:13			0	0.012	
11/10/2018 13:14			0	0.011	
11/10/2018 13:15	12.8	89.1	0	0.012	
11/10/2018 13:15					42.42756;-76.50194
11/10/2018 13:16			0	0.011	
11/10/2018 13:17			0.001	0.012	
11/10/2018 13:18			0.001	0.012	
11/10/2018 13:19			0.001	0.011	
11/10/2018 13:20	12.8	77.9	0.001	0.012	
11/10/2018 13:20					42.4276;-76.50198
11/10/2018 13:21			0.001	0.012	
11/10/2018 13:22			0.001	0.012	
11/10/2018 13:23			0.001	0.016	
11/10/2018 13:24			0.001	0.014	
11/10/2018 13:25	12.8	86	0.001	0.013	
11/10/2018 13:25					42.42762;-76.50197
11/10/2018 13:26			0.001	0.013	
11/10/2018 13:27			0.001	0.013	
11/10/2018 13:28			0.001	0.013	
11/10/2018 13:29			0.001	0.013	
11/10/2018 13:30	12.8	76.9	0.001	0.013	
11/10/2018 13:30					42.42761;-76.50194
11/10/2018 13:31			0.001	0.013	
11/10/2018 13:32			0.001	0.014	
11/10/2018 13:33			0.001	0.014	
11/10/2018 13:34			0.001	0.014	
11/10/2018 13:35	12.8	79	0.001	0.013	
11/10/2018 13:35					42.42755;-76.50201
11/10/2018 13:36			0.001	0.013	
11/10/2018 13:37			0.001	0.014	
11/10/2018 13:38			0.001	0.014	
11/10/2018 13:39			0.001	0.017	
11/10/2018 13:40	12.8	88.1	0.001	0.014	
11/10/2018 13:40					42.42759;-76.50199
11/10/2018 13:41			0.001	0.015	
11/10/2018 13:42			0.001	0.014	
11/10/2018 13:43			0.001	0.014	
11/10/2018 13:44			0.001	0.015	
11/10/2018 13:45	12.8	81	0.001	0.015	
11/10/2018 13:45					42.42757;-76.50196
11/10/2018 13:46			0.001	0.014	
11/10/2018 13:47			0.001	0.015	
11/10/2018 13:48			0.001	0.017	
11/10/2018 13:49			0.001	0.016	
11/10/2018 13:50	12.8	79	0.001	0.015	
11/10/2018 13:50					42.42763;-76.50196
11/10/2018 13:51			0.001	0.015	
11/10/2018 13:52			0.002	0.015	
11/10/2018 13:53			0.002	0.016	
11/10/2018 13:54			0.002	0.016	
11/10/2018 13:55	12.8	76.9	0.002	0.015	
11/10/2018 13:55					42.42754;-76.50193

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/10/2018 13:56			0.002	0.015	
11/10/2018 13:57			0.002	0.015	
11/10/2018 13:58			0.002	0.015	
11/10/2018 13:59			0.002	0.017	
11/10/2018 14:00	12.8	76.9	0.002	0.016	
11/10/2018 14:00					42.42757;-76.50195
11/10/2018 14:01			0.002	0.017	
11/10/2018 14:02			0.002	0.015	
11/10/2018 14:03			0.002	0.015	
11/10/2018 14:04			0.002	0.017	
11/10/2018 14:05	12.8	77.9	0.002	0.017	
11/10/2018 14:05					42.42765;-76.50198
11/10/2018 14:06			0.002	0.016	
11/10/2018 14:07			0.002	0.015	
11/10/2018 14:08			0.002	0.015	
11/10/2018 14:09			0.002	0.015	
11/10/2018 14:10	12.8	86	0.002	0.015	
11/10/2018 14:10					42.42753;-76.50195
11/10/2018 14:11			0.002	0.015	
11/10/2018 14:12			0.002	0.017	
11/10/2018 14:13			0.002	0.017	
11/10/2018 14:14			0.002	0.014	
11/10/2018 14:15	12.7	75.9	0.002	0.015	
11/10/2018 14:15					42.42755;-76.50191
11/10/2018 14:16			0.002	0.015	
11/10/2018 14:17			0.002	0.017	
11/10/2018 14:18			0.002	0.015	
11/10/2018 14:19			0.002	0.015	
11/10/2018 14:20	12.8	77.9	0.002	0.017	
11/10/2018 14:20					42.4276;-76.50189
11/10/2018 14:21			0.002	0.016	
11/10/2018 14:22			0.002	0.014	
11/10/2018 14:23			0.003	0.014	
11/10/2018 14:24			0.003	0.014	
11/10/2018 14:25	12.8	77.9	0.003	0.014	
11/10/2018 14:25					42.42761;-76.50195
11/10/2018 14:26			0.003	0.014	
11/10/2018 14:27			0.003	0.014	
11/10/2018 14:28			0.003	0.014	
11/10/2018 14:29			0.003	0.013	
11/10/2018 14:30	12.8	85	0.003	0.015	
11/10/2018 14:30					42.42764;-76.50188
11/10/2018 14:31			0.003	0.014	
11/10/2018 14:32			0.003	0.014	
11/10/2018 14:33			0.003	0.014	
11/10/2018 14:34			0.003	0.014	
11/10/2018 14:35	12.8	87	0.003	0.013	
11/10/2018 14:35					42.42788;-76.50161
11/10/2018 14:36			0.003	0.015	
11/10/2018 14:37			0.003	0.014	
11/10/2018 14:38			0.003	0.016	
11/10/2018 14:39			0.003	0.015	
11/10/2018 14:40	12.7	76.9	0.003	0.015	
11/10/2018 14:40					42.42837;-76.50108
11/10/2018 14:41			0.003	0.014	
11/10/2018 14:42			0.003	0.015	
11/10/2018 14:43			0.003	0.015	
11/10/2018 14:44			0.003	0.016	
11/10/2018 14:45	12.7	88.1	0.003	0.016	
11/10/2018 14:45					42.42829;-76.50121
11/10/2018 14:46			0.003	0.017	
11/10/2018 14:47			0.003	0.018	
11/10/2018 14:48			0.003	0.015	
11/10/2018 14:49			0.003	0.015	
11/10/2018 14:50	12.7	92.1	0.003	0.015	
11/10/2018 14:50					42.4278;-76.50179
11/10/2018 14:51			0.003	0.014	
11/10/2018 14:52			0.003	0.014	
11/10/2018 14:53			0.003	0.018	
11/10/2018 14:54			0.003	0.016	
11/10/2018 14:55	12.7	77.9	0.004	0.014	
11/10/2018 14:55					42.42755;-76.50196
11/10/2018 14:56			0.004	0.014	
11/10/2018 14:57			0.004	0.014	
11/10/2018 14:58			0.004	0.014	
11/10/2018 14:59			0.004	0.014	
11/10/2018 15:00	12.7	87	0.004	0.014	
11/10/2018 15:00					42.42747;-76.50198
11/10/2018 15:01			0.004	0.014	
11/10/2018 15:02			0.004	0.014	
11/10/2018 15:03			0.004	0.014	
11/10/2018 15:04			0.004	0.014	
11/10/2018 15:05	12.7	76.9	0.004	0.014	
11/10/2018 15:05					42.42743;-76.50207
11/10/2018 15:06			0.004	0.014	
11/10/2018 15:07			0.004	0.014	
11/10/2018 15:08			0.004	0.014	
11/10/2018 15:09			0.004	0.014	
11/10/2018 15:10	12.7	81	0.004	0.014	
11/10/2018 15:10					42.42759;-76.50201
11/10/2018 15:11			0.004	0.014	
11/10/2018 15:12			0.004	0.014	
11/10/2018 15:13			0.004	0.014	
11/10/2018 15:14			0.004	0.014	
11/10/2018 15:15	12.7	84	0.004	0.013	
11/10/2018 15:15					42.42756;-76.50202
11/10/2018 15:16			0.004	0.013	
11/10/2018 15:17			0.004	0.013	
11/10/2018 15:18			0.004	0.013	
11/10/2018 15:19			0.004	0.013	
11/10/2018 15:20	12.7	83	0.004	0.013	
11/10/2018 15:20					42.42757;-76.50201
11/10/2018 15:21			0.004	0.013	
11/10/2018 15:22			0.004	0.015	
11/10/2018 15:23			0.004	0.013	
11/10/2018 15:24			0.004	0.013	
11/10/2018 15:25	12.6	99.2	0.004	0.013	
11/10/2018 15:25					42.42773;-76.50197
11/10/2018 15:26			0.004	0.013	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/10/2018 15:27			0.004	0.015	
11/10/2018 15:28			0.004	0.013	
11/10/2018 15:29			0.004	0.021	
11/10/2018 15:30	12.7	77.9	0.005	0.013	42.42752;-76.50103
11/10/2018 15:31			0.005	0.013	
11/10/2018 15:32			0.005	0.013	
11/10/2018 15:33			0.005	0.012	
11/10/2018 15:34			0.005	0.012	
11/10/2018 15:35	12.5	77.9	0.005	0.012	42.42771;-76.50114
11/10/2018 15:36			0.005	0.012	
11/10/2018 15:37			0.005	0.012	
11/10/2018 15:38			0.005	0.011	
11/10/2018 15:39			0.005	0.011	
11/10/2018 15:40	12.5	76.9	0.005	0.011	42.42757;-76.50105
11/10/2018 15:41			0.005	0.014	
11/10/2018 15:42			0.005	0.014	
11/10/2018 15:43			0.005	0.012	
11/10/2018 15:44			0.005	0.011	
11/10/2018 15:45	12.5	90.1	0.005	0.012	42.42749;-76.50092
11/10/2018 15:46			0.005	0.012	
11/10/2018 15:47			0.005	0.016	
11/10/2018 15:48			0.005	0.013	
11/10/2018 15:49			0.005	0.011	
11/10/2018 15:50	12.4	81	0.005	0.011	42.42756;-76.50103
11/10/2018 15:51			0.005	0.01	
11/10/2018 15:52			0.005	0.011	
11/10/2018 15:53			0.005	0.011	
11/10/2018 15:54			0.005	0.01	
11/10/2018 15:55	12.5	80	0.005	0.011	42.42756;-76.50105
11/10/2018 15:56			0.005	0.011	
11/10/2018 15:57			0.005	0.013	
11/10/2018 15:58			0.005	0.013	
11/10/2018 15:59			0.005	0.012	
11/10/2018 16:00	12.5	79	0.005	0.012	42.42751;-76.50098
11/10/2018 16:01			0.005	0.012	
11/10/2018 16:02			0.005	0.012	
11/10/2018 16:03			0.005	0.011	
11/10/2018 16:04			0.005	0.011	
11/10/2018 16:05	12.5	80	0.005	0.011	42.42744;-76.50095
11/10/2018 16:06			0.005	0.012	
11/10/2018 16:07			0.005	0.012	
11/10/2018 16:08			0.005	0.012	
11/10/2018 16:09			0.005	0.011	
11/10/2018 16:10	12.5	102.2	0.006	0.011	42.42755;-76.50101
11/10/2018 16:11			0.006	0.011	
11/10/2018 16:12			0.006	0.011	
11/10/2018 16:13			0.006	0.011	
11/10/2018 16:14			0.006	0.011	
11/10/2018 16:15	12.5	80	0.006	0.011	42.42724;-76.50076
11/10/2018 16:16			0.006	0.011	
11/10/2018 16:17			0.006	0.011	
11/10/2018 16:18			0.006	0.011	
11/10/2018 16:19			0.006	0.011	
11/10/2018 16:20	12.5	79	0.006	0.011	42.42761;-76.50106
11/10/2018 16:21			0.006	0.011	
11/10/2018 16:22			0.006	0.011	
11/10/2018 16:23			0.006	0.011	
11/10/2018 16:24			0.006	0.011	
11/10/2018 16:25	12.5	90.1	0.006	0.011	42.42764;-76.50094
11/10/2018 16:26			0.006	0.011	
11/10/2018 16:27			0.006	0.011	
11/10/2018 16:28			0.006	0.011	
11/10/2018 16:29			0.006	0.011	
11/10/2018 16:30	12.5	83	0.006	0.012	42.42755;-76.50101
11/10/2018 16:31			0.006	0.012	
11/10/2018 16:32			0.006	0.011	
11/10/2018 16:33			0.006	0.012	
11/10/2018 16:34			0.006	0.011	
11/10/2018 16:35	12.5	84	0.006	0.011	42.42752;-76.50102
11/10/2018 16:36			0.006	0.012	
11/10/2018 16:37			0.006	0.012	
11/10/2018 16:38			0.006	0.012	
11/10/2018 16:39			0.006	0.012	
11/10/2018 16:40	12.5	84	0.006	0.012	42.42753;-76.50101
11/10/2018 16:41			0.006	0.012	
11/10/2018 16:42			0.006	0.013	
11/10/2018 16:43			0.006	0.013	
11/10/2018 16:44			0.006	0.012	
11/10/2018 16:45	12.5	77.9	0.006	0.013	42.42756;-76.50101
11/10/2018 16:46			0.006	0.023	
11/10/2018 16:47			0.006	0.016	
11/10/2018 16:48			0.006	0.012	
11/10/2018 16:49			0.006	0.013	
11/12/2018 14:48	12.8	103.2			
11/12/2018 14:50	12.7	77.9			
11/12/2018 14:51			0	0.014	
11/12/2018 14:52			0	0.019	
11/12/2018 14:53			0	0.019	
11/12/2018 14:54			0	0.018	
11/12/2018 14:55	12.7	80	0	0.018	42.42766;-76.50197
11/12/2018 14:56			0	0.018	
11/12/2018 14:57			0	0.018	
11/12/2018 14:58				0.018	
11/12/2018 15:00	12.7	95.1			42.42763;-76.50195
11/12/2018 15:05	12.7	98.2			42.4276;-76.50195
11/12/2018 15:10	12.7	77.9			42.42764;-76.50199
11/12/2018 15:15	12.7	85			42.42762;-76.50195
11/12/2018 15:20	12.7	80			
11/12/2018 15:20					42.42762;-76.50195
11/12/2018 15:25	12.6	83			
11/12/2018 15:25					42.42764;-76.50192
11/12/2018 15:30	12.6	76.9			
11/12/2018 15:30					42.42767;-76.50195
11/12/2018 15:35	12.6	79			42.42762;-76.50202
11/12/2018 15:40	12.6	76.9			42.42765;-76.50191
11/12/2018 15:45	12.6	79			42.42763;-76.50196
11/12/2018 15:50	12.6	83			
11/12/2018 15:50					42.4277;-76.50196
11/12/2018 15:55	12.6	82			

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/12/2018 15:55					42.42776;-76.50205
11/12/2018 16:00	12.6	83			
11/12/2018 16:00					42.42775;-76.50195
11/12/2018 16:05	12.6	83			42.4277;-76.50198
11/12/2018 16:10	12.6	86			42.42769;-76.50193
11/12/2018 16:15	12.6	89.1			42.42758;-76.50182
11/12/2018 16:20	12.6	83			
11/12/2018 16:20					42.4276;-76.50187
11/12/2018 16:25	12.6	85			
11/12/2018 16:25					42.42765;-76.50195
11/12/2018 16:30	12.6	79			
11/12/2018 16:30					42.42764;-76.50193
11/12/2018 16:35	12.6	84			42.42761;-76.50195
11/12/2018 16:40	12.6	84			42.42764;-76.50198
11/12/2018 16:45	12.6	79			42.42767;-76.50203
11/12/2018 16:50	12.6	80			
11/12/2018 16:50					42.42765;-76.50198
11/12/2018 16:55	12.6	88.1			
11/12/2018 16:55					42.42772;-76.50197
11/12/2018 17:00	12.6	85			
11/12/2018 17:00					42.42766;-76.50202
11/12/2018 17:05	12.6	79			42.42771;-76.50198
11/12/2018 17:10	12.5	79			42.42769;-76.50196
11/12/2018 17:15	12.5	87			42.42764;-76.5019
11/12/2018 17:20	12.5	83			
11/12/2018 17:20					42.4277;-76.50191
11/12/2018 17:25	12.5	84			
11/12/2018 17:25					42.42766;-76.50199
11/12/2018 17:30	12.5	91.1			
11/12/2018 17:30					42.42768;-76.50196
11/12/2018 17:35	12.5	85			42.42772;-76.50196
11/12/2018 17:40	12.5	91.1			42.42783;-76.50198
11/12/2018 17:45	12.5	82			42.42768;-76.50201
11/12/2018 17:50	12.5	91.1			
11/12/2018 17:50					42.42774;-76.50188
11/12/2018 17:55	12.5	80			42.42767;-76.50191
11/12/2018 18:00	12.5	81			42.42767;-76.502
11/12/2018 18:05	12.5	86			
11/12/2018 18:05					42.42767;-76.50198
11/12/2018 18:10	12.5	81			42.42768;-76.50197
11/12/2018 18:15	12.5	81			42.42765;-76.50197
11/12/2018 18:20	12.5	89.1			
11/12/2018 18:20					42.42772;-76.50206
11/12/2018 18:25	12.5	84			42.42768;-76.5019
11/12/2018 18:30	12.5	96.2			42.42764;-76.50195
11/12/2018 18:35	12.5	91.1			
11/12/2018 18:35					42.4277;-76.50193
11/12/2018 18:40	12.5	82			42.4276;-76.50191
11/12/2018 18:45	12.4	90.1			42.42764;-76.50199
11/12/2018 18:50	12.4	80			
11/12/2018 18:50					42.42765;-76.502
11/12/2018 18:55	12.4	108.3			42.42762;-76.50197
11/12/2018 19:00	12.4	82			42.4276;-76.50198
11/12/2018 19:05	12.4	96.2			
11/12/2018 19:05					42.42762;-76.50197
11/12/2018 19:10	12.4	80			
11/12/2018 19:10					42.4276;-76.50198
11/12/2018 19:15	12.4	94.1			
11/12/2018 19:15					42.42761;-76.50198
11/12/2018 19:20	12.4	87			42.42766;-76.50204
11/12/2018 19:25	12.4	96.2			
11/12/2018 19:25					42.42765;-76.50197
11/12/2018 19:30	12.4	81			
11/12/2018 19:30					42.42761;-76.50198
11/12/2018 19:35	12.4	80			42.42762;-76.50202
11/12/2018 19:40	12.4	80			42.42754;-76.50203
11/12/2018 19:45	12.4	91.1			42.42759;-76.50201
11/12/2018 19:50	12.4	79			42.42751;-76.50195
11/12/2018 19:55	12.4	103.2			
11/12/2018 19:55					42.42759;-76.50202
11/12/2018 20:00	12.4	81			
11/12/2018 20:00					42.42758;-76.50195
11/12/2018 20:05	12.4	97.2			42.42759;-76.50193
11/12/2018 20:10	12.4	80			
11/12/2018 20:10					42.42765;-76.50196
11/12/2018 20:15	12.4	95.1			
11/12/2018 20:15					42.42758;-76.50198
11/12/2018 20:20	12.4	81			42.42756;-76.50193
11/12/2018 20:25	12.4	92.1			42.42761;-76.50199
11/12/2018 20:30	12.4	83			42.42762;-76.50201
11/12/2018 20:35	12.4	80			
11/12/2018 20:35					42.42764;-76.50204
11/12/2018 20:40	12.4	82			
11/12/2018 20:40					42.42764;-76.50206
11/12/2018 20:45	12.3	88.1			
11/12/2018 20:45					42.42768;-76.50194
11/13/2018 14:21	13.1	114.4			
11/13/2018 14:22					42.4341897;-76.4964729
11/13/2018 14:24			0	0.036	
11/13/2018 14:25	12.8	85	0	0.037	
11/13/2018 14:25					42.43349;-76.49678
11/13/2018 14:26			0	0.034	
11/13/2018 14:27			0	0.033	
11/13/2018 14:28			0	0.031	
11/13/2018 14:29			0	0.029	
11/13/2018 14:30	12.8	99.2	0	0.029	42.43317;-76.49699
11/13/2018 14:31			0	0.029	
11/13/2018 14:32			0	0.028	
11/13/2018 14:33			0	0.029	
11/13/2018 14:34			0	0.029	
11/13/2018 14:35	12.8	76.9	0	0.028	42.43304;-76.49708
11/13/2018 14:36			0	0.029	
11/13/2018 14:37			0	0.028	
11/13/2018 14:38			0	0.029	
11/13/2018 14:39			0.001	0.029	
11/13/2018 14:40	12.8	84	0.001	0.029	42.433;-76.49689
11/13/2018 14:41			0.001	0.028	
11/13/2018 14:42			0.001	0.028	
11/13/2018 14:43			0.001	0.028	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/13/2018 14:44			0.001	0.027	
11/13/2018 14:45	12.8	88.1	0.001	0.026	42.43322;-76.49667
11/13/2018 14:46			0.001	0.025	
11/13/2018 14:47			0.001	0.025	
11/13/2018 14:48			0.001	0.024	
11/13/2018 14:49			0.002	0.023	
11/13/2018 14:50	12.8	86	0.002	0.023	42.43331;-76.49677
11/13/2018 14:51			0.002	0.023	
11/13/2018 14:52			0.002	0.022	
11/13/2018 14:53			0.002	0.021	
11/13/2018 14:54			0.002	0.02	
11/13/2018 14:55	12.8	77.9	0.002	0.019	42.43339;-76.49674
11/13/2018 14:56			0.002	0.017	
11/13/2018 14:57			0.002	0.016	
11/13/2018 14:58			0.002	0.014	
11/13/2018 14:59			0.002	0.013	
11/13/2018 15:00	12.8	85	0.002	0.013	42.43334;-76.49671
11/13/2018 15:01			0.002	0.013	
11/13/2018 15:02			0.002	0.013	
11/13/2018 15:03			0.002	0.012	
11/13/2018 15:04			0.002	0.011	
11/13/2018 15:05	12.8	77.9	0.002	0.011	42.43344;-76.49675
11/13/2018 15:06			0.002	0.011	
11/13/2018 15:07			0.002	0.011	
11/13/2018 15:08			0.002	0.011	
11/13/2018 15:09			0.002	0.012	
11/13/2018 15:10	12.8	79	0.002	0.012	42.43346;-76.49675
11/13/2018 15:11			0.002	0.013	
11/13/2018 15:12			0.002	0.012	
11/13/2018 15:13			0.002	0.013	
11/13/2018 15:14			0.002	0.013	
11/13/2018 15:15	12.8	79	0.002	0.014	42.43348;-76.49675
11/13/2018 15:16			0.002	0.013	
11/13/2018 15:17			0.002	0.014	
11/13/2018 15:18			0.002	0.014	
11/13/2018 15:19			0.002	0.013	
11/13/2018 15:20	12.8	87	0.002	0.013	42.43345;-76.49674
11/13/2018 15:21			0.002	0.013	
11/13/2018 15:22			0.003	0.013	
11/13/2018 15:23			0.003	0.013	
11/13/2018 15:24			0.003	0.012	
11/13/2018 15:25	12.7	101.2	0.003	0.013	42.43344;-76.4967
11/13/2018 15:26			0.003	0.013	
11/13/2018 15:27			0.003	0.013	
11/13/2018 15:28			0.003	0.013	
11/13/2018 15:29			0.003	0.013	
11/13/2018 15:30	12.7	85	0.003	0.013	42.43344;-76.49673
11/13/2018 15:31			0.003	0.013	
11/13/2018 15:32			0.003	0.014	
11/13/2018 15:33			0.003	0.014	
11/13/2018 15:34			0.003	0.014	
11/13/2018 15:35	12.7	79	0.003	0.014	42.43341;-76.49677
11/13/2018 15:36			0.003	0.014	
11/13/2018 15:37			0.003	0.014	
11/13/2018 15:38			0.003	0.014	
11/13/2018 15:39			0.003	0.014	
11/13/2018 15:40	12.7	89.1	0.003	0.016	42.43339;-76.4967
11/13/2018 15:41			0.003	0.015	
11/13/2018 15:42			0.003	0.015	
11/13/2018 15:43			0.003	0.015	
11/13/2018 15:44			0.003	0.015	
11/13/2018 15:45	12.7	77.9	0.003	0.015	42.43337;-76.49673
11/13/2018 15:46			0.003	0.015	
11/13/2018 15:47			0.003	0.016	
11/13/2018 15:48			0.003	0.016	
11/13/2018 15:49			0.003	0.016	
11/13/2018 15:50	12.7	79	0.003	0.016	42.43341;-76.49678
11/13/2018 15:51			0.003	0.016	
11/13/2018 15:52			0.003	0.016	
11/13/2018 15:53			0.003	0.018	
11/13/2018 15:54			0.003	0.016	
11/13/2018 15:55	12.7	77.9	0.004	0.017	42.4335;-76.49682
11/13/2018 15:56			0.004	0.017	
11/13/2018 15:57			0.004	0.017	
11/13/2018 15:58			0.004	0.017	
11/13/2018 15:59			0.004	0.017	
11/13/2018 16:00	12.7	86	0.004	0.018	42.43351;-76.49688
11/13/2018 16:01			0.004	0.018	
11/13/2018 16:02			0.004	0.018	
11/13/2018 16:03			0.004	0.018	
11/13/2018 16:04			0.004	0.018	
11/13/2018 16:05	12.7	84	0.004	0.018	42.43353;-76.49691
11/13/2018 16:06			0.004	0.018	
11/13/2018 16:07			0.004	0.018	
11/13/2018 16:08			0.004	0.018	
11/13/2018 16:09			0.004	0.019	
11/13/2018 16:10	12.7	88.1	0.004	0.018	42.43353;-76.4968
11/13/2018 16:11			0.004	0.018	
11/13/2018 16:12			0.004	0.018	
11/13/2018 16:13			0.004	0.018	
11/13/2018 16:14			0.004	0.018	
11/13/2018 16:15	12.7	76.9	0.004	0.018	42.43346;-76.4968
11/13/2018 16:16			0.004	0.019	
11/13/2018 16:17			0.004	0.018	
11/13/2018 16:18			0.004	0.018	
11/13/2018 16:19			0.004	0.018	
11/13/2018 16:20	12.7	76.9	0.004	0.018	42.43344;-76.49677
11/13/2018 16:21			0.004	0.018	
11/13/2018 16:22			0.005	0.018	
11/13/2018 16:23			0.005	0.018	
11/13/2018 16:24			0.005	0.018	
11/13/2018 16:25	12.7	76.9	0.005	0.018	42.43346;-76.49673
11/13/2018 16:26			0.005	0.018	
11/13/2018 16:27			0.005	0.018	
11/13/2018 16:28			0.005	0.019	
11/13/2018 16:29			0.005	0.019	
11/13/2018 16:30	12.7	75.9	0.005	0.019	42.43346;-76.49673
11/13/2018 16:31			0.005	0.019	
11/13/2018 16:32			0.005	0.019	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/13/2018 16:33			0.005	0.019	
11/13/2018 16:34			0.005	0.019	
11/13/2018 16:35	12.7	88.1	0.005	0.019	42.43346;-76.49676
11/13/2018 16:36			0.005	0.019	
11/13/2018 16:37			0.005	0.021	
11/13/2018 16:38			0.005	0.019	
11/13/2018 16:39			0.005	0.019	
11/13/2018 16:40	12.7	75.9	0.005	0.018	42.43347;-76.49673
11/13/2018 16:41			0.005	0.019	
11/13/2018 16:42			0.005	0.019	
11/13/2018 16:43			0.005	0.019	
11/13/2018 16:44			0.005	0.02	
11/13/2018 16:45	12.7	76.9	0.005	0.019	42.43349;-76.49673
11/13/2018 16:46			0.005	0.019	
11/13/2018 16:47			0.006	0.019	
11/13/2018 16:48			0.006	0.019	
11/13/2018 16:49			0.006	0.019	
11/13/2018 16:50	12.7	88.1	0.006	0.02	42.43346;-76.4967
11/13/2018 16:51			0.006	0.02	
11/13/2018 16:52			0.006	0.02	
11/13/2018 16:53			0.006	0.019	
11/13/2018 16:54			0.006	0.018	
11/13/2018 16:55	12.7	85	0.006	0.019	42.43345;-76.49664
11/13/2018 16:56			0.006	0.019	
11/13/2018 16:57			0.006	0.019	
11/13/2018 16:58			0.006	0.018	
11/13/2018 16:59			0.006	0.018	
11/13/2018 17:00	12.7	83	0.006	0.018	42.43342;-76.49672
11/13/2018 17:01			0.006	0.018	
11/13/2018 17:02			0.006	0.018	
11/13/2018 17:03			0.006	0.018	
11/13/2018 17:04			0.006	0.019	
11/13/2018 17:05	12.7	83	0.006	0.018	42.43351;-76.49684
11/13/2018 17:06			0.006	0.018	
11/13/2018 17:07			0.006	0.018	
11/13/2018 17:08			0.006	0.018	
11/13/2018 17:09			0.006	0.018	
11/13/2018 17:10	12.7	76.9	0.006	0.018	42.43347;-76.4968
11/13/2018 17:11			0.006	0.018	
11/13/2018 17:12			0.006	0.016	
11/13/2018 17:13			0.006	0.017	
11/13/2018 17:14			0.007	0.016	
11/13/2018 17:15	12.7	77.9	0.007	0.017	42.43347;-76.49675
11/13/2018 17:16			0.007	0.019	
11/13/2018 17:17			0.007	0.023	
11/13/2018 17:18			0.007	0.023	
11/13/2018 17:19			0.007	0.018	
11/13/2018 17:20	12.7	77.9	0.007	0.018	42.43352;-76.49674
11/13/2018 17:21			0.007	0.018	
11/13/2018 17:22			0.007	0.018	
11/13/2018 17:23			0.007	0.018	
11/13/2018 17:24			0.007	0.018	
11/13/2018 17:25	12.7	81	0.007	0.018	42.43344;-76.49682
11/13/2018 17:26			0.007	0.018	
11/13/2018 17:27			0.007	0.017	
11/13/2018 17:28			0.007	0.017	
11/13/2018 17:29			0.007	0.017	
11/13/2018 17:30	12.7	79	0.007	0.017	42.43348;-76.49678
11/13/2018 17:31			0.007	0.017	
11/13/2018 17:32			0.007	0.018	
11/13/2018 17:33			0.007	0.018	
11/13/2018 17:34			0.007	0.018	
11/13/2018 17:35	12.7	77.9	0.007	0.017	42.43345;-76.49676
11/13/2018 17:36			0.007	0.017	
11/13/2018 17:37			0.007	0.018	
11/13/2018 17:38			0.007	0.018	
11/13/2018 17:39			0.007	0.019	
11/13/2018 17:40	12.7	87	0.008	0.02	42.43344;-76.4968
11/13/2018 17:41			0.008	0.019	
11/13/2018 17:42			0.008	0.018	
11/13/2018 17:43			0.008	0.018	
11/13/2018 17:44			0.008	0.019	
11/13/2018 17:45	12.6	79	0.008	0.02	42.43348;-76.49672
11/13/2018 17:46			0.008	0.02	
11/13/2018 17:47			0.008	0.019	
11/13/2018 17:48			0.008	0.019	
11/13/2018 17:49			0.008	0.019	
11/13/2018 17:50	12.6	93.1	0.008	0.021	42.43349;-76.49676
11/13/2018 17:51			0.008	0.019	
11/13/2018 17:52			0.008	0.02	
11/13/2018 17:53			0.008	0.02	
11/13/2018 17:54			0.008	0.02	
11/13/2018 17:55	12.6	79	0.008	0.02	42.4335;-76.49675
11/13/2018 17:56			0.008	0.021	
11/13/2018 17:57			0.008	0.02	
11/13/2018 17:58			0.008	0.021	
11/13/2018 17:59			0.008	0.021	
11/13/2018 18:00	12.6	77.9	0.008	0.021	42.43349;-76.4967
11/13/2018 18:01			0.008	0.021	
11/13/2018 18:02			0.008	0.023	
11/13/2018 18:03			0.008	0.021	
11/13/2018 18:04			0.009	0.02	
11/13/2018 18:05	12.6	77.9	0.009	0.02	42.4335;-76.49675
11/13/2018 18:06			0.009	0.02	
11/13/2018 18:07			0.009	0.019	
11/13/2018 18:08			0.009	0.019	
11/13/2018 18:09			0.009	0.019	
11/13/2018 18:10	12.6	83	0.009	0.019	42.43349;-76.4968
11/13/2018 18:11			0.009	0.019	
11/13/2018 18:12			0.009	0.019	
11/13/2018 18:13			0.009	0.019	
11/13/2018 18:14			0.009	0.019	
11/13/2018 18:15	12.6	77.9	0.009	0.018	42.43352;-76.49678
11/13/2018 18:16			0.009	0.019	
11/13/2018 18:17			0.009	0.019	
11/13/2018 18:18			0.009	0.019	
11/13/2018 18:19			0.009	0.019	
11/13/2018 18:20	12.6	77.9	0.009	0.02	42.43352;-76.4968
11/13/2018 18:21			0.009	0.02	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/13/2018 18:22			0.009	0.021	
11/13/2018 18:23			0.009	0.02	
11/13/2018 18:24			0.009	0.02	
11/13/2018 18:25	12.6	77.9	0.009	0.02	42.43351;-76.49682
11/13/2018 18:26			0.009	0.02	
11/13/2018 18:27			0.009	0.02	
11/13/2018 18:28			0.009	0.02	
11/13/2018 18:29			0.01	0.019	
11/13/2018 18:30	12.6	82	0.01	0.019	42.43341;-76.49685
11/13/2018 18:31			0.01	0.019	
11/13/2018 18:32			0.01	0.019	
11/13/2018 18:33			0.01	0.019	
11/13/2018 18:34			0.01	0.019	
11/13/2018 18:35	12.6	77.9	0.01	0.019	42.43348;-76.49678
11/13/2018 18:36			0.01	0.02	
11/13/2018 18:37			0.01	0.02	
11/13/2018 18:38			0.01	0.02	
11/13/2018 18:39			0.01	0.02	
11/13/2018 18:40	12.6	79	0.01	0.02	42.43346;-76.49682
11/13/2018 18:41			0.01	0.021	
11/13/2018 18:42			0.01	0.021	
11/13/2018 18:43			0.01	0.02	
11/13/2018 18:44			0.01	0.02	
11/13/2018 18:45	12.6	79	0.01	0.02	42.43343;-76.4968
11/13/2018 18:46			0.01	0.02	
11/13/2018 18:47			0.01	0.02	
11/13/2018 18:48			0.01	0.02	
11/13/2018 18:49			0.01	0.02	
11/13/2018 18:50	12.6	82	0.01	0.021	42.43341;-76.4968
11/13/2018 18:51			0.01	0.021	
11/13/2018 18:52			0.01	0.02	
11/13/2018 18:53			0.011	0.021	
11/13/2018 18:54			0.011	0.022	
11/13/2018 18:55	12.6	84	0.011	0.022	42.43341;-76.49681
11/13/2018 18:56			0.011	0.022	
11/13/2018 18:57			0.011	0.022	
11/13/2018 18:58			0.011	0.022	
11/13/2018 18:59			0.011	0.023	
11/13/2018 19:00	12.6	82	0.011	0.023	42.43339;-76.49682
11/13/2018 19:01			0.011	0.021	
11/13/2018 19:02			0.011	0.021	
11/13/2018 19:03			0.011	0.022	
11/13/2018 19:04			0.011	0.022	
11/13/2018 19:05	12.6	82	0.011	0.023	42.43339;-76.4968
11/13/2018 19:06			0.011	0.023	
11/13/2018 19:07			0.011	0.023	
11/13/2018 19:08			0.011	0.023	
11/13/2018 19:09			0.011	0.023	
11/13/2018 19:10	12.6	77.9	0.011	0.023	42.43339;-76.49684
11/13/2018 19:11			0.011	0.023	
11/13/2018 19:12			0.011	0.024	
11/13/2018 19:13			0.011	0.023	
11/13/2018 19:14			0.011	0.024	
11/13/2018 19:15	12.6	77.9	0.012	0.027	42.43336;-76.49677
11/13/2018 19:16			0.012	0.025	
11/13/2018 19:17			0.012	0.025	
11/13/2018 19:18			0.012	0.024	
11/13/2018 19:19			0.012	0.024	
11/13/2018 19:20	12.6	77.9	0.012	0.024	42.43337;-76.49677
11/13/2018 19:21			0.012	0.025	
11/13/2018 19:22			0.012	0.025	
11/13/2018 19:23			0.012	0.025	
11/13/2018 19:24			0.012	0.025	
11/13/2018 19:25	12.6	86	0.012	0.025	42.43341;-76.49677
11/13/2018 19:26			0.012	0.025	
11/13/2018 19:27			0.012	0.025	
11/13/2018 19:28			0.012	0.025	
11/13/2018 19:29			0.012	0.025	
11/13/2018 19:30	12.6	77.9	0.012	0.025	42.43309;-76.49687
11/13/2018 19:31			0.012	0.025	
11/13/2018 19:32			0.012	0.025	
11/13/2018 19:33			0.012	0.025	
11/13/2018 19:34			0.013	0.025	
11/13/2018 19:35	12.6	93.1	0.013	0.025	42.43341;-76.49683
11/13/2018 19:36			0.013	0.025	
11/13/2018 19:37			0.013	0.026	
11/13/2018 19:38			0.013	0.028	
11/13/2018 19:39			0.013	0.034	
11/13/2018 19:40	12.6	89.1	0.013	0.028	42.43343;-76.49675
11/13/2018 19:41			0.013	0.027	
11/13/2018 19:42			0.013	0.027	
11/13/2018 19:43			0.013	0.026	
11/13/2018 19:44			0.013	0.026	
11/13/2018 19:45	12.6	80	0.013	0.027	42.43341;-76.49675
11/13/2018 19:46			0.013	0.027	
11/13/2018 19:47			0.013	0.027	
11/13/2018 19:48			0.013	0.027	
11/13/2018 19:49			0.013	0.027	
11/13/2018 19:50	12.5	76.9	0.013	0.027	42.43344;-76.49676
11/13/2018 19:51			0.014	0.027	
11/13/2018 19:52			0.014	0.027	
11/13/2018 19:53			0.014	0.027	
11/13/2018 19:54			0.014	0.027	
11/13/2018 19:55	12.5	83	0.014	0.028	42.43344;-76.49676
11/13/2018 19:56			0.014	0.028	
11/13/2018 19:57			0.014	0.028	
11/13/2018 19:58			0.014	0.028	
11/13/2018 19:59			0.014	0.028	
11/13/2018 20:00	12.5	77.9	0.014	0.028	42.43342;-76.49678
11/13/2018 20:01			0.014	0.028	
11/13/2018 20:02			0.014	0.028	
11/13/2018 20:03			0.014	0.028	
11/13/2018 20:04			0.014	0.028	
11/13/2018 20:05	12.6	82	0.014	0.029	42.43342;-76.4968
11/13/2018 20:06			0.014	0.029	
11/13/2018 20:07			0.014	0.029	
11/13/2018 20:08			0.014	0.029	
11/13/2018 20:09			0.015	0.03	
11/13/2018 20:10	12.5	81	0.015	0.03	42.43342;-76.49678

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/13/2018 20:11			0.015	0.031	
11/13/2018 20:12			0.015	0.031	
11/13/2018 20:13			0.015	0.032	
11/13/2018 20:14			0.015	0.032	
11/13/2018 20:15	12.5	87	0.015	0.032	42.43345;-76.49673
11/13/2018 20:16			0.015	0.032	
11/13/2018 20:17			0.015	0.033	
11/13/2018 20:18			0.015	0.033	
11/13/2018 20:19			0.015	0.033	
11/13/2018 20:20	12.5	89.1	0.015	0.033	42.43337;-76.4968
11/13/2018 20:21			0.015	0.033	
11/13/2018 20:22			0.015	0.033	
11/13/2018 20:23			0.015	0.034	
11/13/2018 20:24			0.016	0.035	
11/13/2018 20:25	12.5	88.1	0.016	0.034	42.4334;-76.49677
11/13/2018 20:26			0.016	0.035	
11/13/2018 20:27			0.016	0.035	
11/13/2018 20:28			0.016	0.036	
11/13/2018 20:29			0.016	0.036	
11/13/2018 20:30	12.5	101.2	0.016	0.036	42.43335;-76.49689
11/13/2018 20:31			0.016	0.037	
11/13/2018 20:32			0.016	0.038	
11/13/2018 20:33			0.016	0.037	
11/13/2018 20:34			0.016	0.038	
11/13/2018 20:35	12.5	77.9	0.016	0.038	42.43341;-76.49681
11/13/2018 20:36			0.016	0.038	
11/13/2018 20:37			0.017	0.038	
11/13/2018 20:38			0.017	0.038	
11/13/2018 20:39			0.017	0.038	
11/13/2018 20:40	12.5	77.9	0.017	0.038	42.4334;-76.49681
11/13/2018 20:41			0.017	0.039	
11/13/2018 20:42			0.017	0.037	
11/13/2018 20:43			0.017	0.037	
11/13/2018 20:44			0.017	0.038	
11/13/2018 20:45	12.5	85	0.017	0.039	42.43343;-76.4968
11/13/2018 20:46			0.017	0.039	
11/13/2018 20:47			0.017	0.039	
11/13/2018 20:48			0.017	0.038	
11/13/2018 20:49			0.018	0.038	
11/13/2018 20:50	12.5	79	0.018	0.038	42.43343;-76.4968
11/13/2018 20:51			0.018	0.038	
11/13/2018 20:52			0.018	0.038	
11/13/2018 20:53			0.018	0.038	
11/13/2018 20:54			0.018	0.039	
11/13/2018 20:55	12.5	80	0.018	0.039	42.43345;-76.4968
11/13/2018 20:56			0.018	0.039	
11/13/2018 20:57			0.018	0.039	
11/13/2018 20:58			0.018	0.04	
11/13/2018 20:59			0.018	0.04	
11/13/2018 21:00	12.5	83	0.018	0.04	42.43343;-76.49681
11/13/2018 21:01			0.018	0.041	
11/13/2018 21:02			0.019	0.04	
11/13/2018 21:03			0.019	0.038	
11/13/2018 21:04			0.019	0.036	
11/13/2018 21:05	12.5	79	0.019	0.028	42.43342;-76.49684
11/13/2018 21:06			0.019	0.024	
11/13/2018 21:07			0.019	0.023	
11/13/2018 21:08			0.019	0.023	
11/13/2018 21:09			0.019	0.024	
11/13/2018 21:10	12.4	84	0.019	0.022	42.43343;-76.49684
11/13/2018 21:11			0.019	0.021	
11/14/2018 12:43			0	0.008	
11/14/2018 12:44			0	0.006	
11/14/2018 12:45	12.8	88.1	0	0.006	
11/14/2018 12:45					42.43084;-76.49807
11/14/2018 12:46			0	0.006	
11/14/2018 12:47			0	0.006	
11/14/2018 12:48			0	0.006	
11/14/2018 12:49			0	0.005	
11/14/2018 12:50	12.8	77.9	0	0.005	
11/14/2018 12:50					42.43085;-76.49808
11/14/2018 12:51			0	0.006	
11/14/2018 12:52			0	0.005	
11/14/2018 12:53			0	0.005	
11/14/2018 12:54			0	0.005	
11/14/2018 12:55	12.8	88.1	0	0.005	
11/14/2018 12:55					42.4308;-76.49814
11/14/2018 12:56			0	0.005	
11/14/2018 12:57			0	0.005	
11/14/2018 12:58			0	0.006	
11/14/2018 12:59			0	0.006	
11/14/2018 13:00	12.8	85	0	0.006	42.43088;-76.49806
11/14/2018 13:01			0	0.006	
11/14/2018 13:02			0	0.006	
11/14/2018 13:03			0	0.006	
11/14/2018 13:04			0	0.006	
11/14/2018 13:05	12.8	79	0	0.006	42.43089;-76.49811
11/14/2018 13:06			0	0.006	
11/14/2018 13:07			0	0.006	
11/14/2018 13:08			0	0.006	
11/14/2018 13:09			0	0.006	
11/14/2018 13:10	12.8	79	0	0.006	42.43082;-76.49802
11/14/2018 13:11			0	0.006	
11/14/2018 13:12			0	0.006	
11/14/2018 13:13			0	0.006	
11/14/2018 13:14			0	0.006	
11/14/2018 13:15	12.8	92.1	0	0.005	42.43084;-76.49811
11/14/2018 13:16			0	0.005	
11/14/2018 13:17			0	0.005	
11/14/2018 13:18			0	0.005	
11/14/2018 13:19			0	0.005	
11/14/2018 13:20	12.8	86	0	0.005	42.43085;-76.49814
11/14/2018 13:21			0	0.007	
11/14/2018 13:22			0	0.007	
11/14/2018 13:23			0	0.006	
11/14/2018 13:24			0	0.006	
11/14/2018 13:25	12.8	79	0.001	0.006	42.43084;-76.49809
11/14/2018 13:26			0.001	0.006	
11/14/2018 13:27			0.001	0.006	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/14/2018 13:28			0.001	0.006	
11/14/2018 13:29			0.001	0.006	
11/14/2018 13:30	12.7	81	0.001	0.006	42.4308;-76.498
11/14/2018 13:31			0.001	0.007	
11/14/2018 13:32			0.001	0.007	
11/14/2018 13:33			0.001	0.007	
11/14/2018 13:34			0.001	0.007	
11/14/2018 13:35	12.7	76.9	0.001	0.007	42.43082;-76.49807
11/14/2018 13:36			0.001	0.007	
11/14/2018 13:37			0.001	0.007	
11/14/2018 13:38			0.001	0.007	
11/14/2018 13:39			0.001	0.007	
11/14/2018 13:40	12.7	75.9	0.001	0.007	42.43084;-76.49812
11/14/2018 13:41			0.001	0.007	
11/14/2018 13:42			0.001	0.007	
11/14/2018 13:43			0.001	0.007	
11/14/2018 13:44			0.001	0.007	
11/14/2018 13:45	12.7	80	0.001	0.007	42.43085;-76.49812
11/14/2018 13:46			0.001	0.007	
11/14/2018 13:47			0.001	0.006	
11/14/2018 13:48			0.001	0.006	
11/14/2018 13:49			0.001	0.006	
11/14/2018 13:50	12.7	81	0.001	0.006	42.43084;-76.49813
11/14/2018 13:51			0.001	0.006	
11/14/2018 13:52			0.001	0.006	
11/14/2018 13:53			0.001	0.006	
11/14/2018 13:54			0.001	0.006	
11/14/2018 13:55	12.7	88.1	0.001	0.006	42.43084;-76.49821
11/14/2018 13:56			0.001	0.006	
11/14/2018 13:57			0.001	0.006	
11/14/2018 13:58			0.001	0.006	
11/14/2018 13:59			0.001	0.006	
11/14/2018 14:00	12.7	81	0.001	0.006	42.43085;-76.49815
11/14/2018 14:01			0.001	0.006	
11/14/2018 14:02			0.001	0.007	
11/14/2018 14:03			0.001	0.007	
11/14/2018 14:04			0.001	0.006	
11/14/2018 14:05	12.7	79	0.001	0.006	42.43084;-76.49812
11/14/2018 14:06			0.001	0.006	
11/14/2018 14:07			0.001	0.005	
11/14/2018 14:08			0.001	0.005	
11/14/2018 14:09			0.001	0.005	
11/14/2018 14:10	12.7	77.9	0.001	0.005	42.43095;-76.49807
11/14/2018 14:11			0.001	0.005	
11/14/2018 14:12			0.001	0.005	
11/14/2018 14:13			0.001	0.005	
11/14/2018 14:14			0.001	0.004	
11/14/2018 14:15	12.7	81	0.001	0.004	42.43093;-76.49806
11/14/2018 14:16			0.001	0.004	
11/14/2018 14:17			0.001	0.004	
11/14/2018 14:18			0.001	0.005	
11/14/2018 14:19			0.001	0.005	
11/14/2018 14:20	12.7	84	0.001	0.005	42.43068;-76.49816
11/14/2018 14:21			0.001	0.005	
11/14/2018 14:22			0.001	0.005	
11/14/2018 14:23			0.001	0.005	
11/14/2018 14:24			0.001	0.005	
11/14/2018 14:25	12.6	76.9	0.001	0.005	42.43077;-76.49815
11/14/2018 14:26			0.001	0.004	
11/14/2018 14:27			0.001	0.004	
11/14/2018 14:28			0.001	0.004	
11/14/2018 14:29			0.001	0.004	
11/14/2018 14:30	12.6	85	0.001	0.004	42.43068;-76.49811
11/14/2018 14:31			0.001	0.004	
11/14/2018 14:32			0.001	0.004	
11/14/2018 14:33			0.001	0.004	
11/14/2018 14:34			0.001	0.004	
11/14/2018 14:35	12.7	77.9	0.001	0.004	42.43067;-76.49816
11/14/2018 14:36			0.001	0.004	
11/14/2018 14:37			0.001	0.004	
11/14/2018 14:38			0.001	0.004	
11/14/2018 14:39			0.001	0.004	
11/14/2018 14:40	12.7	98.2	0.001	0.004	42.4306;-76.49816
11/14/2018 14:41			0.001	0.004	
11/14/2018 14:42			0.001	0.005	
11/14/2018 14:43			0.001	0.004	
11/14/2018 14:44			0.001	0.004	
11/14/2018 14:45	12.6	79	0.001	0.004	42.43053;-76.4982
11/14/2018 14:46			0.001	0.004	
11/14/2018 14:47			0.001	0.004	
11/14/2018 14:48			0.001	0.004	
11/14/2018 14:49			0.001	0.004	
11/14/2018 14:50	12.6	101.2	0.001	0.004	42.4308;-76.49805
11/14/2018 14:51			0.001	0.005	
11/14/2018 14:52			0.001	0.005	
11/14/2018 14:53			0.002	0.004	
11/14/2018 14:54			0.002	0.005	
11/14/2018 14:55	12.6	79	0.002	0.004	42.43085;-76.49812
11/14/2018 14:56			0.002	0.004	
11/14/2018 14:57			0.002	0.004	
11/14/2018 14:58			0.002	0.004	
11/14/2018 14:59			0.002	0.004	
11/14/2018 15:00	12.6	76.9	0.002	0.004	42.43082;-76.49812
11/14/2018 15:01			0.002	0.005	
11/14/2018 15:02			0.002	0.004	
11/14/2018 15:03			0.002	0.004	
11/14/2018 15:04			0.002	0.004	
11/14/2018 15:05	12.6	86	0.002	0.004	42.43081;-76.49811
11/14/2018 15:06			0.002	0.004	
11/14/2018 15:07			0.002	0.004	
11/14/2018 15:08			0.002	0.004	
11/14/2018 15:09			0.002	0.004	
11/14/2018 15:10	12.6	81	0.002	0.004	42.43082;-76.4981
11/14/2018 15:11			0.002	0.004	
11/14/2018 15:12			0.002	0.004	
11/14/2018 15:13			0.002	0.004	
11/14/2018 15:14			0.002	0.004	
11/14/2018 15:15	12.6	84	0.002	0.004	42.43084;-76.49818
11/14/2018 15:16			0.002	0.004	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/14/2018 15:17			0.002	0.004	
11/14/2018 15:18			0.002	0.004	
11/14/2018 15:19			0.002	0.004	
11/14/2018 15:20	12.6	95.1	0.002	0.004	42.43081;-76.49808
11/14/2018 15:21			0.002	0.004	
11/14/2018 15:22			0.002	0.004	
11/14/2018 15:23			0.002	0.004	
11/14/2018 15:24			0.002	0.004	
11/14/2018 15:25	12.6	79	0.002	0.004	42.43084;-76.49811
11/14/2018 15:26			0.002	0.004	
11/14/2018 15:27			0.002	0.004	
11/14/2018 15:28			0.002	0.004	
11/14/2018 15:29			0.002	0.004	
11/14/2018 15:30	12.6	82	0.002	0.005	42.43082;-76.49813
11/14/2018 15:31			0.002	0.004	
11/14/2018 15:32			0.002	0.005	
11/14/2018 15:33			0.002	0.004	
11/14/2018 15:34			0.002	0.004	
11/14/2018 15:35	12.6	77.9	0.002	0.004	42.43081;-76.49808
11/14/2018 15:36			0.002	0.004	
11/14/2018 15:37			0.002	0.004	
11/14/2018 15:38			0.002	0.005	
11/14/2018 15:39			0.002	0.004	
11/14/2018 15:40	12.6	83	0.002	0.004	42.43085;-76.49818
11/14/2018 15:41			0.002	0.004	
11/14/2018 15:42			0.002	0.004	
11/14/2018 15:43			0.002	0.004	
11/14/2018 15:44			0.002	0.004	
11/14/2018 15:45	12.5	101.2	0.002	0.004	42.43082;-76.49816
11/14/2018 15:46			0.002	0.004	
11/14/2018 15:47			0.002	0.004	
11/14/2018 15:48			0.002	0.004	
11/14/2018 15:49			0.002	0.004	
11/14/2018 15:50	12.5	89.1	0.002	0.004	42.43089;-76.49818
11/14/2018 15:51			0.002	0.004	
11/14/2018 15:52			0.002	0.006	
11/14/2018 15:53			0.002	0.004	
11/14/2018 15:54			0.002	0.004	
11/14/2018 15:55	12.5	82	0.002	0.004	42.43079;-76.49808
11/14/2018 15:56			0.002	0.004	
11/14/2018 15:57			0.002	0.004	
11/14/2018 15:58			0.002	0.005	
11/14/2018 15:59			0.002	0.005	
11/14/2018 16:00	12.6	77.9	0.002	0.005	42.43081;-76.49813
11/14/2018 16:01			0.002	0.004	
11/14/2018 16:02			0.002	0.005	
11/14/2018 16:03			0.002	0.004	
11/14/2018 16:04			0.002	0.005	
11/14/2018 16:05	12.5	84	0.002	0.005	42.43077;-76.49808
11/14/2018 16:06			0.002	0.005	
11/14/2018 16:07			0.002	0.005	
11/14/2018 16:08			0.002	0.004	
11/14/2018 16:09			0.002	0.004	
11/14/2018 16:10	12.5	90.1	0.002	0.004	42.43079;-76.49809
11/14/2018 16:11			0.002	0.004	
11/14/2018 16:12			0.002	0.004	
11/14/2018 16:13			0.002	0.004	
11/14/2018 16:14			0.002	0.004	
11/14/2018 16:15	12.5	79	0.002	0.005	42.43084;-76.49814
11/14/2018 16:16			0.002	0.004	
11/14/2018 16:17			0.002	0.004	
11/14/2018 16:18			0.002	0.004	
11/14/2018 16:19			0.002	0.004	
11/14/2018 16:20	12.6	79	0.002	0.004	42.4308;-76.49814
11/14/2018 16:21			0.002	0.004	
11/14/2018 16:22			0.002	0.004	
11/14/2018 16:23			0.002	0.004	
11/14/2018 16:24			0.002	0.004	
11/14/2018 16:25	12.5	82	0.002	0.005	42.43082;-76.49809
11/14/2018 16:26			0.002	0.004	
11/14/2018 16:27			0.002	0.004	
11/14/2018 16:28			0.002	0.004	
11/14/2018 16:29			0.002	0.004	
11/14/2018 16:30	12.5	89.1	0.002	0.004	42.43083;-76.4981
11/14/2018 16:31			0.002	0.004	
11/14/2018 16:32			0.002	0.004	
11/14/2018 16:33			0.002	0.004	
11/14/2018 16:34			0.002	0.004	
11/14/2018 16:35	12.5	90.1	0.002	0.004	42.43084;-76.49811
11/14/2018 16:36			0.002	0.004	
11/14/2018 16:37			0.002	0.004	
11/14/2018 16:38			0.002	0.008	
11/14/2018 16:39			0.002	0.004	
11/14/2018 16:40	12.5	80	0.002	0.004	42.43089;-76.49819
11/14/2018 16:41			0.002	0.004	
11/14/2018 16:42			0.002	0.004	
11/14/2018 16:43			0.002	0.004	
11/14/2018 16:44			0.002	0.004	
11/14/2018 16:45	12.5	83	0.002	0.004	42.43086;-76.49819
11/14/2018 16:46			0.003	0.005	
11/14/2018 16:47			0.003	0.004	
11/14/2018 16:48			0.003	0.005	
11/14/2018 16:49			0.003	0.004	
11/14/2018 16:50	12.5	85	0.003	0.005	42.43093;-76.49818
11/14/2018 16:51			0.003	0.004	
11/14/2018 16:52			0.003	0.004	
11/14/2018 16:53			0.003	0.005	
11/14/2018 16:54			0.003	0.004	
11/14/2018 16:55	12.5	88.1	0.003	0.004	42.43089;-76.49816
11/14/2018 16:56			0.003	0.004	
11/14/2018 16:57			0.003	0.005	
11/14/2018 16:58			0.003	0.004	
11/14/2018 16:59			0.003	0.005	
11/14/2018 17:00	12.5	84	0.003	0.005	42.43086;-76.49815
11/14/2018 17:01			0.003	0.005	
11/14/2018 17:02			0.003	0.005	
11/14/2018 17:03			0.003	0.005	
11/14/2018 17:04			0.003	0.006	
11/14/2018 17:05	12.4	93.1	0.003	0.005	42.43084;-76.49819

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/14/2018 17:06			0.003	0.005	
11/14/2018 17:07			0.003	0.005	
11/14/2018 17:08			0.003	0.005	
11/14/2018 17:09			0.003	0.005	
11/14/2018 17:10	12.5	83	0.003	0.005	42.43079;-76.49819
11/14/2018 17:11			0.003	0.005	
11/14/2018 17:12			0.003	0.005	
11/14/2018 17:13			0.003	0.005	
11/14/2018 17:14			0.003	0.005	
11/14/2018 17:15	12.5	91.1	0.003	0.005	42.43084;-76.49816
11/14/2018 17:16			0.003	0.005	
11/14/2018 17:17			0.003	0.005	
11/14/2018 17:18			0.003	0.005	
11/14/2018 17:19			0.003	0.005	
11/14/2018 17:20	12.5	79	0.003	0.005	42.43087;-76.49814
11/14/2018 17:21			0.003	0.005	
11/14/2018 17:22			0.003	0.005	
11/14/2018 17:23			0.003	0.005	
11/14/2018 17:24			0.003	0.005	
11/14/2018 17:25	12.4	86	0.003	0.005	42.43083;-76.49809
11/14/2018 17:26			0.003	0.005	
11/14/2018 17:27			0.003	0.005	
11/14/2018 17:28			0.003	0.005	
11/14/2018 17:29			0.003	0.006	
11/14/2018 17:30	12.5	81	0.003	0.005	42.43096;-76.49812
11/14/2018 17:31			0.003	0.005	
11/14/2018 17:32			0.003	0.005	
11/14/2018 17:33			0.003	0.005	
11/14/2018 17:34			0.003	0.005	
11/14/2018 17:35	12.4	79	0.003	0.005	42.43099;-76.49812
11/14/2018 17:36			0.003	0.005	
11/14/2018 17:37			0.003	0.005	
11/14/2018 17:38			0.003	0.005	
11/14/2018 17:39			0.003	0.005	
11/14/2018 17:40	12.4	95.1	0.003	0.005	42.4309;-76.49812
11/14/2018 17:41			0.003	0.004	
11/14/2018 17:42			0.003	0.004	
11/14/2018 17:43			0.003	0.005	
11/14/2018 17:44			0.003	0.004	
11/14/2018 17:45	12.4	85	0.003	0.005	42.43088;-76.49812
11/14/2018 17:46			0.003	0.005	
11/14/2018 17:47			0.003	0.004	
11/14/2018 17:48			0.003	0.004	
11/14/2018 17:49			0.003	0.005	
11/14/2018 17:50	12.4	91.1	0.003	0.005	42.43086;-76.49809
11/14/2018 17:51			0.003	0.005	
11/14/2018 17:52			0.003	0.005	
11/14/2018 17:53			0.003	0.005	
11/14/2018 17:54			0.003	0.005	
11/14/2018 17:55	12.4	80	0.003	0.005	42.43084;-76.49809
11/14/2018 17:56			0.003	0.005	
11/14/2018 17:57			0.003	0.005	
11/14/2018 17:58			0.003	0.005	
11/14/2018 17:59			0.003	0.005	
11/14/2018 18:00	12.4	79	0.003	0.005	42.43089;-76.4981
11/14/2018 18:01			0.003	0.005	
11/14/2018 18:02			0.003	0.005	
11/14/2018 18:03			0.003	0.004	
11/14/2018 18:04			0.003	0.004	
11/14/2018 18:05	12.4	85	0.003	0.004	42.43084;-76.49811
11/14/2018 18:06			0.003	0.004	
11/14/2018 18:07			0.003	0.004	
11/14/2018 18:08			0.003	0.004	
11/14/2018 18:09			0.003	0.004	
11/14/2018 18:10	12.4	83	0.003	0.004	42.43086;-76.4981
11/14/2018 18:11			0.003	0.005	
11/14/2018 18:12			0.003	0.004	
11/14/2018 18:13			0.003	0.004	
11/14/2018 18:14			0.003	0.005	
11/14/2018 18:15	12.4	86	0.003	0.004	42.43085;-76.49812
11/14/2018 18:16			0.003	0.004	
11/14/2018 18:17			0.003	0.004	
11/14/2018 18:18			0.003	0.004	
11/14/2018 18:19			0.003	0.004	
11/14/2018 18:20	12.4	81	0.003	0.004	42.43069;-76.49805
11/14/2018 18:21			0.003	0.005	
11/14/2018 18:22			0.003	0.004	
11/14/2018 18:23			0.003	0.004	
11/14/2018 18:24			0.003	0.004	
11/14/2018 18:25	12.4	93.1	0.003	0.004	42.43084;-76.49812
11/14/2018 18:26			0.003	0.004	
11/14/2018 18:27			0.003	0.004	
11/14/2018 18:28			0.003	0.004	
11/14/2018 18:29			0.004	0.004	
11/14/2018 18:30	12.4	83	0.004	0.004	42.43081;-76.49814
11/14/2018 18:31			0.004	0.004	
11/14/2018 18:32			0.004	0.004	
11/14/2018 18:33			0.004	0.005	
11/14/2018 18:34			0.004	0.004	
11/14/2018 18:35	12.4	91.1	0.004	0.004	42.43081;-76.49815
11/14/2018 18:36			0.004	0.004	
11/14/2018 18:37			0.004	0.004	
11/14/2018 18:38			0.004	0.004	
11/14/2018 18:39			0.004	0.004	
11/14/2018 18:40	12.4	80	0.004	0.004	42.43081;-76.49811
11/14/2018 18:41			0.004	0.004	
11/14/2018 18:42			0.004	0.004	
11/14/2018 18:43			0.004	0.005	
11/14/2018 18:44			0.004	0.005	
11/14/2018 18:45	12.4	82	0.004	0.005	42.43081;-76.49809
11/14/2018 18:46			0.004	0.005	
11/14/2018 18:47			0.004	0.005	
11/14/2018 18:48			0.004	0.005	
11/14/2018 18:49			0.004	0.005	
11/14/2018 18:50	12.4	80	0.004	0.005	42.43079;-76.49814
11/14/2018 18:51			0.004	0.005	
11/14/2018 18:52			0.004	0.005	
11/14/2018 18:53			0.004	0.005	
11/14/2018 18:54			0.004	0.005	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/14/2018 18:55	12.4	90.1	0.004	0.005	42.43078;-76.49815
11/14/2018 18:56			0.004	0.005	
11/14/2018 18:57			0.004	0.005	
11/14/2018 18:58			0.004	0.005	
11/14/2018 18:59			0.004	0.005	
11/14/2018 19:00	12.4	95.1	0.004	0.005	42.43076;-76.49813
11/14/2018 19:01			0.004	0.005	
11/14/2018 19:02			0.004	0.005	
11/14/2018 19:03			0.004	0.005	
11/14/2018 19:04			0.004	0.005	
11/14/2018 19:05	12.3	85	0.004	0.005	42.43079;-76.49814
11/14/2018 19:06			0.004	0.005	
11/14/2018 19:07			0.004	0.005	
11/14/2018 19:08			0.004	0.005	
11/14/2018 19:09			0.004	0.005	
11/14/2018 19:10	12.3	94.1	0.004	0.005	42.43078;-76.49814
11/14/2018 19:11			0.004	0.005	
11/14/2018 19:12			0.004	0.005	
11/14/2018 19:13			0.004	0.005	
11/14/2018 19:14			0.004	0.005	
11/14/2018 19:15	12.3	81	0.004	0.005	42.43077;-76.49812
11/14/2018 19:16			0.004	0.005	
11/14/2018 19:17			0.004	0.005	
11/14/2018 19:18			0.004	0.005	
11/14/2018 19:19			0.004	0.005	
11/14/2018 19:20	12.3	82	0.004	0.006	42.43075;-76.49803
11/14/2018 19:21			0.004	0.006	
11/14/2018 19:22			0.004	0.006	
11/14/2018 19:23			0.004	0.006	
11/14/2018 19:24			0.004	0.006	
11/14/2018 19:25	12.3	81	0.004	0.006	42.43075;-76.49809
11/14/2018 19:26			0.004	0.006	
11/14/2018 19:27			0.004	0.006	
11/14/2018 19:28			0.004	0.006	
11/14/2018 19:29			0.004	0.006	
11/14/2018 19:30	12.3	91.1	0.004	0.006	42.43076;-76.49809
11/14/2018 19:31			0.004	0.006	
11/14/2018 19:32			0.004	0.006	
11/14/2018 19:33			0.004	0.006	
11/14/2018 19:34			0.004	0.006	
11/14/2018 19:35	12.3	98.2	0.004	0.006	42.4308;-76.4981
11/14/2018 19:36			0.004	0.006	
11/14/2018 19:37			0.004	0.006	
11/14/2018 19:38			0.004	0.006	
11/14/2018 19:39			0.004	0.006	
11/14/2018 19:40	12.3	83	0.004	0.006	42.43083;-76.49809
11/14/2018 19:41			0.004	0.006	
11/14/2018 19:42			0.004	0.006	
11/14/2018 19:43			0.004	0.006	
11/14/2018 19:44			0.004	0.006	
11/14/2018 19:45	12.3	91.1	0.004	0.006	42.43076;-76.49807
11/14/2018 19:46			0.004	0.006	
11/14/2018 19:47			0.004	0.006	
11/14/2018 19:48			0.004	0.006	
11/14/2018 19:49			0.004	0.006	
11/14/2018 19:50	12.3	82	0.004	0.006	42.4308;-76.49808
11/14/2018 19:51			0.004	0.006	
11/14/2018 19:52			0.004	0.006	
11/14/2018 19:53			0.004	0.006	
11/14/2018 19:54			0.004	0.006	
11/14/2018 19:55	12.3	81	0.004	0.006	42.43084;-76.49812
11/14/2018 19:56			0.004	0.006	
11/14/2018 19:57			0.004	0.006	
11/14/2018 19:58			0.004	0.006	
11/14/2018 19:59			0.005	0.006	
11/14/2018 20:00	12.2	81	0.005	0.006	42.4308;-76.49811
11/14/2018 20:01			0.005	0.006	
11/14/2018 20:02			0.005	0.006	
11/14/2018 20:03			0.005	0.006	
11/14/2018 20:04			0.005	0.006	
11/14/2018 20:05	12.3	92.1	0.005	0.006	42.43081;-76.49809
11/14/2018 20:06			0.005	0.006	
11/14/2018 20:07			0.005	0.006	
11/14/2018 20:08			0.005	0.006	
11/14/2018 20:09			0.005	0.006	
11/14/2018 20:10	12.3	105.3	0.005	0.006	42.4308;-76.49812
11/14/2018 20:11			0.005	0.006	
11/14/2018 20:12			0.005	0.006	
11/14/2018 20:13			0.005	0.006	
11/14/2018 20:14			0.005	0.006	
11/14/2018 20:15	12.2	85	0.005	0.006	42.43082;-76.4981
11/14/2018 20:16			0.005	0.006	
11/14/2018 20:17			0.005	0.005	
11/14/2018 20:18			0.005	0.005	
11/14/2018 20:19			0.005	0.006	
11/14/2018 20:20	12.2	101.2	0.005	0.006	42.43081;-76.4981
11/14/2018 20:21			0.005	0.006	
11/14/2018 20:22			0.005	0.006	
11/14/2018 20:23			0.005	0.005	
11/14/2018 20:24			0.005	0.005	
11/14/2018 20:25	12.2	84	0.005	0.006	42.43078;-76.49812
11/14/2018 20:26			0.005	0.006	
11/14/2018 20:27			0.005	0.005	
11/14/2018 20:28			0.005	0.006	
11/14/2018 20:29			0.005	0.005	
11/14/2018 20:30	12.2	89.1	0.005	0.005	42.43077;-76.49814
11/14/2018 20:31			0.005	0.005	
11/14/2018 20:32			0.005	0.005	
11/14/2018 20:33			0.005	0.005	
11/14/2018 20:34			0.005	0.005	
11/14/2018 20:35	12.2	80	0.005	0.005	42.43081;-76.4981
11/14/2018 20:36			0.005	0.005	
11/14/2018 20:37			0.005	0.005	
11/14/2018 20:38			0.005	0.005	
11/14/2018 20:39			0.005	0.006	
11/14/2018 20:40	12.2	84	0.005	0.006	42.43078;-76.49814
11/14/2018 20:41			0.005	0.005	
11/14/2018 20:42			0.005	0.006	
11/14/2018 20:43			0.005	0.006	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/14/2018 20:44			0.005	0.005	
11/14/2018 20:45	12.2	86	0.005	0.006	42.43077;-76.49818
11/14/2018 20:46			0.005	0.006	
11/14/2018 20:47			0.005	0.006	
11/14/2018 20:48			0.005	0.005	
11/14/2018 20:49			0.005	0.006	
11/14/2018 20:50	12.2	114.4	0.005	0.006	42.43078;-76.49819
11/14/2018 20:51			0.005	0.005	
11/14/2018 20:52			0.005	0.005	
11/14/2018 20:53			0.005	0.006	
11/14/2018 20:54			0.005	0.006	
11/14/2018 20:55	12.2	86	0.005	0.006	42.43078;-76.49818
11/14/2018 20:56			0.005	0.006	
11/14/2018 20:57			0.005	0.005	
11/14/2018 20:58			0.005	0.005	
11/14/2018 20:59			0.005	0.006	
11/14/2018 21:00	12.2	114.4	0.005	0.005	42.43077;-76.49821
11/14/2018 21:01			0.005	0.006	
11/14/2018 21:02			0.005	0.006	
11/14/2018 21:03			0.005	0.006	
11/14/2018 21:04			0.005	0.006	
11/14/2018 21:05	12.2	82	0.005	0.006	42.43078;-76.49825
11/14/2018 21:06			0.005	0.006	
11/14/2018 21:07			0.005	0.006	
11/14/2018 21:08			0.005	0.006	
11/14/2018 21:09			0.005	0.006	
11/14/2018 21:10	12.2	84	0.005	0.006	42.43078;-76.49821
11/14/2018 21:11			0.005	0.006	
11/14/2018 21:12			0.005	0.006	
11/14/2018 21:13			0.005	0.006	
11/14/2018 21:14			0.005	0.006	
11/14/2018 21:15	12.2	82	0.005	0.006	42.43075;-76.49815
11/14/2018 21:16			0.005	0.006	
11/14/2018 21:17			0.005	0.006	
11/14/2018 21:18			0.005	0.006	
11/14/2018 21:19			0.005	0.006	
11/14/2018 21:20	12.1	92.1	0.005	0.006	42.43077;-76.49823
11/14/2018 21:21			0.005	0.006	
11/14/2018 21:22			0.005	0.006	
11/14/2018 21:23			0.005	0.006	
11/14/2018 21:24			0.005	0.006	
11/14/2018 21:25	12.2	81	0.005	0.006	42.43076;-76.49821
11/14/2018 21:26			0.005	0.006	
11/14/2018 21:27			0.005	0.006	
11/14/2018 21:28			0.005	0.006	
11/14/2018 21:29			0.005	0.006	
11/14/2018 21:30	12.2	97.2	0.005	0.006	42.43077;-76.49819
11/14/2018 21:31			0.005	0.006	
11/14/2018 21:32			0.005	0.006	
11/14/2018 21:33			0.005	0.006	
11/14/2018 21:34			0.005	0.006	
11/14/2018 21:35	12.1	81	0.005	0.006	42.43102;-76.49822
11/14/2018 21:36			0.005	0.006	
11/14/2018 21:37			0.005	0.006	
11/14/2018 21:38			0.005	0.006	
11/14/2018 21:39			0.005	0.006	
11/14/2018 21:40	12.1	89.1	0.005	0.006	42.43085;-76.49817
11/14/2018 21:41			0.005	0.007	
11/14/2018 21:42			0.005	0.007	
11/14/2018 21:43			0.005	0.006	
11/14/2018 21:44			0.005	0.006	
11/14/2018 21:45	12.1	81	0.005	0.006	42.43086;-76.49818
11/14/2018 21:46			0.005	0.007	
11/15/2018 12:53	12.5	108.3			
11/15/2018 12:53					42.4307415;-76.5042423
11/15/2018 12:55	12.4	77.9			
11/15/2018 12:56			0	0.011	
11/15/2018 12:57			0	0.012	
11/15/2018 12:58			0	0.015	
11/15/2018 12:59			0	0.016	
11/15/2018 13:00	12.4	83	0	0.017	42.42757;-76.50198
11/15/2018 13:01			0	0.014	
11/15/2018 13:02			0	0.018	
11/15/2018 13:03			0	0.016	
11/15/2018 13:04			0	0.013	
11/15/2018 13:05	12.3	81	0	0.013	42.42769;-76.50199
11/15/2018 13:06			0	0.013	
11/15/2018 13:07			0	0.013	
11/15/2018 13:08			0	0.012	
11/15/2018 13:09			0	0.012	
11/15/2018 13:10	12.3	96.2	0	0.012	42.42771;-76.50206
11/15/2018 13:11			0	0.012	
11/15/2018 13:12			0	0.012	
11/15/2018 13:13			0.001	0.012	
11/15/2018 13:14			0.001	0.012	
11/15/2018 13:15	12.3	80	0.001	0.012	42.42769;-76.50206
11/15/2018 13:16			0.001	0.012	
11/15/2018 13:17			0.001	0.012	
11/15/2018 13:18			0.001	0.012	
11/15/2018 13:19			0.001	0.012	
11/15/2018 13:20	12.3	84	0.001	0.012	42.42771;-76.50201
11/15/2018 13:21			0.001	0.013	
11/15/2018 13:22			0.001	0.012	
11/15/2018 13:23			0.001	0.012	
11/15/2018 13:24			0.001	0.012	
11/15/2018 13:25	12.3	96.2	0.001	0.012	42.42773;-76.50199
11/15/2018 13:26			0.001	0.012	
11/15/2018 13:27			0.001	0.012	
11/15/2018 13:28			0.001	0.013	
11/15/2018 13:29			0.001	0.013	
11/15/2018 13:30	12.3	80	0.001	0.013	42.42779;-76.50204
11/15/2018 13:31			0.001	0.013	
11/15/2018 13:32			0.001	0.014	
11/15/2018 13:33			0.001	0.013	
11/15/2018 13:34			0.001	0.013	
11/15/2018 13:35	12.3	80	0.001	0.013	42.42774;-76.50201
11/15/2018 13:36			0.001	0.012	
11/15/2018 13:37			0.001	0.012	
11/15/2018 13:38			0.001	0.016	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/15/2018 13:39			0.001	0.012	
11/15/2018 13:40	12.3	80	0.001	0.026	42.42773;-76.50202
11/15/2018 13:41			0.001	0.017	
11/15/2018 13:42			0.001	0.013	
11/15/2018 13:43			0.001	0.014	
11/15/2018 13:44			0.001	0.014	
11/15/2018 13:45	12.3	82	0.001	0.016	42.42763;-76.502
11/15/2018 13:46			0.001	0.017	
11/15/2018 13:47			0.001	0.022	
11/15/2018 13:48			0.002	0.021	
11/15/2018 13:49			0.002	0.019	
11/15/2018 13:50	12.3	96.2	0.002	0.016	42.42767;-76.50198
11/15/2018 13:51			0.002	0.015	
11/15/2018 13:52			0.002	0.014	
11/15/2018 13:53			0.002	0.013	
11/15/2018 13:54			0.002	0.014	
11/15/2018 13:55	12.3	87	0.002	0.014	42.4274;-76.50186
11/15/2018 13:56			0.002	0.015	
11/15/2018 13:57			0.002	0.021	
11/15/2018 13:58			0.002	0.015	
11/15/2018 13:59			0.002	0.014	
11/15/2018 14:00	12.3	84	0.002	0.013	42.42774;-76.50196
11/15/2018 14:01			0.002	0.012	
11/15/2018 14:02			0.002	0.015	
11/15/2018 14:03			0.002	0.035	
11/15/2018 14:04			0.002	0.014	
11/15/2018 14:05	12.3	80	0.002	0.016	42.42767;-76.50194
11/15/2018 14:06			0.002	0.016	
11/15/2018 14:07			0.002	0.018	
11/15/2018 14:08			0.002	0.013	
11/15/2018 14:09			0.002	0.013	
11/15/2018 14:10	12.2	105.3	0.002	0.016	42.4278;-76.5019
11/15/2018 14:11			0.002	0.012	
11/15/2018 14:12			0.002	0.015	
11/15/2018 14:13			0.002	0.012	
11/15/2018 14:14			0.002	0.011	
11/15/2018 14:15	12.2	81	0.002	0.011	42.42774;-76.50184
11/15/2018 14:16			0.002	0.009	
11/15/2018 14:17			0.002	0.008	
11/15/2018 14:18			0.002	0.008	
11/15/2018 14:19			0.002	0.009	
11/15/2018 14:20	12.2	82	0.002	0.01	42.4277;-76.50182
11/15/2018 14:21			0.002	0.008	
11/15/2018 14:22			0.002	0.008	
11/15/2018 14:23			0.003	0.008	
11/15/2018 14:24			0.003	0.008	
11/15/2018 14:25	12.2	101.2	0.003	0.008	42.42757;-76.50197
11/15/2018 14:26			0.003	0.008	
11/15/2018 14:27			0.003	0.008	
11/15/2018 14:28			0.003	0.01	
11/15/2018 14:29			0.003	0.01	
11/15/2018 14:30	12.2	88.1	0.003	0.013	
11/15/2018 14:31			0.003	0.01	
11/15/2018 14:31					42.42746;-76.50209
11/15/2018 14:32			0.003	0.009	
11/15/2018 14:33			0.003	0.008	
11/15/2018 14:34			0.003	0.008	
11/15/2018 14:35	12.2	84	0.003	0.009	42.42755;-76.50194
11/15/2018 14:36			0.003	0.011	
11/15/2018 14:37			0.003	0.011	
11/15/2018 14:38			0.003	0.012	
11/15/2018 14:39			0.003	0.012	
11/15/2018 14:40	12.2	83	0.003	0.011	42.42757;-76.50197
11/15/2018 14:41			0.003	0.01	
11/15/2018 14:42			0.003	0.01	
11/15/2018 14:43			0.003	0.01	
11/15/2018 14:44			0.003	0.01	
11/15/2018 14:45	12.2	80	0.003	0.009	42.42757;-76.50202
11/15/2018 14:46			0.003	0.01	
11/15/2018 14:47			0.003	0.01	
11/15/2018 14:48			0.003	0.009	
11/15/2018 14:49			0.003	0.011	
11/15/2018 14:50	12.2	80	0.003	0.01	42.42756;-76.50198
11/15/2018 14:51			0.003	0.008	
11/15/2018 14:52			0.003	0.009	
11/15/2018 14:53			0.003	0.01	
11/15/2018 14:54			0.003	0.01	
11/15/2018 14:55	12.2	81	0.003	0.009	42.42758;-76.50201
11/15/2018 14:56			0.003	0.009	
11/15/2018 14:57			0.003	0.009	
11/15/2018 14:58			0.003	0.011	
11/15/2018 14:59			0.003	0.01	
11/15/2018 15:00	12.2	79	0.003	0.015	42.42758;-76.50198
11/15/2018 15:01			0.003	0.023	
11/15/2018 15:02			0.003	0.01	
11/15/2018 15:03			0.003	0.012	
11/15/2018 15:04			0.003	0.008	
11/15/2018 15:05	12.2	88.1	0.003	0.011	42.42757;-76.50195
11/15/2018 15:06			0.003	0.008	
11/15/2018 15:07			0.003	0.008	
11/15/2018 15:08			0.003	0.012	
11/15/2018 15:09			0.003	0.01	
11/15/2018 15:10	12.2	80	0.004	0.01	42.42754;-76.50198
11/15/2018 15:11			0.004	0.01	
11/15/2018 15:12			0.004	0.009	
11/15/2018 15:13			0.004	0.008	
11/15/2018 15:14			0.004	0.008	
11/15/2018 15:15	12.2	91.1	0.004	0.007	42.42757;-76.50197
11/15/2018 15:16			0.004	0.008	
11/15/2018 15:17			0.004	0.011	
11/15/2018 15:18			0.004	0.013	
11/15/2018 15:19			0.004	0.008	
11/15/2018 15:20	12.2	86	0.004	0.013	42.42757;-76.50193
11/15/2018 15:21			0.004	0.008	
11/15/2018 15:22			0.004	0.008	
11/15/2018 15:23			0.004	0.008	
11/15/2018 15:24			0.004	0.007	
11/15/2018 15:25	12.2	83	0.004	0.011	42.42757;-76.50195
11/15/2018 15:26			0.004	0.008	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/15/2018 15:27			0.004	0.009	
11/15/2018 15:28			0.004	0.009	
11/15/2018 15:29			0.004	0.008	
11/15/2018 15:30	12.2	83	0.004	0.008	42.42754;-76.50191
11/15/2018 15:31			0.004	0.008	
11/15/2018 15:32			0.004	0.01	
11/15/2018 15:33			0.004	0.016	
11/15/2018 15:34			0.004	0.008	
11/15/2018 15:35	12.2	85	0.004	0.007	42.42756;-76.50192
11/15/2018 15:36			0.004	0.009	
11/15/2018 15:37			0.004	0.01	
11/15/2018 15:38			0.004	0.008	
11/15/2018 15:39			0.004	0.007	
11/15/2018 15:40	12.1	81	0.004	0.008	42.4276;-76.50196
11/15/2018 15:41			0.004	0.008	
11/15/2018 15:42			0.004	0.007	
11/15/2018 15:43			0.004	0.008	
11/15/2018 15:44			0.004	0.009	
11/15/2018 15:45	12.1	81	0.004	0.008	42.42762;-76.50191
11/15/2018 15:46			0.004	0.007	
11/15/2018 15:47			0.004	0.008	
11/15/2018 15:48			0.004	0.007	
11/15/2018 15:49			0.004	0.008	
11/15/2018 15:50	12.1	82	0.004	0.009	42.42766;-76.50196
11/15/2018 15:51			0.004	0.007	
11/15/2018 15:52			0.004	0.007	
11/15/2018 15:53			0.004	0.007	
11/15/2018 15:54			0.004	0.008	
11/15/2018 15:55	12.1	82	0.004	0.009	
11/15/2018 15:55					42.42766;-76.50197
11/15/2018 15:56			0.004	0.008	
11/15/2018 15:57			0.004	0.008	
11/15/2018 15:58			0.004	0.01	
11/15/2018 15:59			0.004	0.007	
11/15/2018 16:00	12.1	96.2	0.004	0.007	
11/15/2018 16:00					42.42763;-76.50194
11/15/2018 16:01			0.004	0.007	
11/15/2018 16:02			0.004	0.007	
11/15/2018 16:03			0.004	0.011	
11/15/2018 16:04			0.004	0.007	
11/15/2018 16:05	12.1	98.2	0.004	0.007	
11/15/2018 16:05					42.42759;-76.50191
11/15/2018 16:06			0.004	0.007	
11/15/2018 16:07			0.005	0.007	
11/15/2018 16:08			0.005	0.007	
11/15/2018 16:09			0.005	0.007	
11/15/2018 16:10	12.1	96.2	0.005	0.007	
11/15/2018 16:10					42.42757;-76.50191
11/15/2018 16:11			0.005	0.007	
11/15/2018 16:12			0.005	0.007	
11/15/2018 16:13			0.005	0.007	
11/15/2018 16:14			0.005	0.007	
11/15/2018 16:15	12.1	96.2	0.005	0.007	
11/15/2018 16:15					42.42756;-76.5019
11/15/2018 16:16			0.005	0.007	
11/15/2018 16:17			0.005	0.007	
11/15/2018 16:18			0.005	0.007	
11/15/2018 16:19			0.005	0.007	
11/15/2018 16:20	12.1	88.1	0.005	0.007	42.42759;-76.50192
11/15/2018 16:21			0.005	0.007	
11/15/2018 16:22			0.005	0.007	
11/15/2018 16:23			0.005	0.007	
11/15/2018 16:24			0.005	0.007	
11/15/2018 16:25	12.1	83	0.005	0.007	42.42759;-76.50193
11/15/2018 16:26			0.005	0.007	
11/15/2018 16:27			0.005	0.007	
11/15/2018 16:28			0.005	0.227	
11/15/2018 16:29			0.005	0.056	
11/15/2018 16:30	12.1	82	0.005	0.007	42.42757;-76.50189
11/15/2018 16:31			0.005	0.008	
11/15/2018 16:32			0.005	0.007	
11/15/2018 16:33			0.005	0.007	
11/15/2018 16:34			0.005	0.007	
11/15/2018 16:35	12.1	98.2	0.005	0.007	42.4276;-76.50195
11/15/2018 16:36			0.005	0.008	
11/15/2018 16:37			0.006	0.007	
11/15/2018 16:38			0.006	0.007	
11/15/2018 16:39			0.006	0.007	
11/15/2018 16:40	12.1	82	0.006	0.01	42.42758;-76.50193
11/15/2018 16:41			0.006	0.027	
11/15/2018 16:42			0.006	0.009	
11/15/2018 16:43			0.006	0.008	
11/15/2018 16:44			0.006	0.007	
11/15/2018 16:45	12.1	80	0.006	0.007	42.42759;-76.50194
11/15/2018 16:46			0.006	0.007	
11/15/2018 16:47			0.006	0.007	
11/15/2018 16:48			0.006	0.007	
11/15/2018 16:49			0.006	0.007	
11/15/2018 16:50	12.1	109.3	0.006	0.007	42.42757;-76.50193
11/15/2018 16:51			0.006	0.006	
11/15/2018 16:52			0.006	0.007	
11/15/2018 16:53			0.006	0.008	
11/15/2018 16:54			0.006	0.008	
11/15/2018 16:55	12.1	102.2	0.006	0.007	42.42758;-76.50195
11/15/2018 16:56			0.006	0.007	
11/15/2018 16:57			0.006	0.007	
11/15/2018 16:58			0.006	0.007	
11/15/2018 16:59			0.006	0.007	
11/15/2018 17:00	12.1	93.1	0.006	0.007	
11/15/2018 17:00					42.42758;-76.50191
11/15/2018 17:01			0.006	0.007	
11/15/2018 17:02			0.006	0.006	
11/15/2018 17:03			0.006	0.007	
11/15/2018 17:04			0.006	0.007	
11/15/2018 17:05	12.1	98.2	0.006	0.007	42.42758;-76.50195
11/15/2018 17:06			0.006	0.006	
11/15/2018 17:07			0.006	0.007	
11/15/2018 17:08			0.006	0.007	
11/15/2018 17:09			0.006	0.007	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/15/2018 17:10	12.1	82	0.006	0.006	42.42759;-76.50196
11/15/2018 17:11			0.006	0.007	
11/15/2018 17:12			0.006	0.007	
11/15/2018 17:13			0.006	0.006	
11/15/2018 17:14			0.006	0.006	
11/15/2018 17:15	12.1	81	0.006	0.006	42.42759;-76.50195
11/15/2018 17:16			0.006	0.007	
11/15/2018 17:17			0.006	0.025	
11/15/2018 17:18			0.006	0.009	
11/15/2018 17:19			0.006	0.008	
11/15/2018 17:20	12	92.1	0.006	0.014	42.42759;-76.50197
11/15/2018 17:21			0.006	0.009	
11/15/2018 17:22			0.006	0.007	
11/15/2018 17:23			0.006	0.006	
11/15/2018 17:24			0.006	0.006	
11/15/2018 17:25	12	80	0.006	0.006	42.42759;-76.50197
11/15/2018 17:26			0.006	0.006	
11/15/2018 17:27			0.006	0.006	
11/15/2018 17:28			0.006	0.006	
11/15/2018 17:29			0.006	0.006	
11/15/2018 17:30	12	101.2	0.006	0.006	42.42759;-76.50193
11/15/2018 17:31			0.006	0.007	
11/15/2018 17:32			0.006	0.007	
11/15/2018 17:33			0.006	0.007	
11/15/2018 17:34			0.006	0.012	
11/15/2018 17:35	12	99.2	0.006	0.006	42.42762;-76.50197
11/15/2018 17:36			0.006	0.006	
11/15/2018 17:37			0.006	0.006	
11/15/2018 17:38			0.006	0.006	
11/15/2018 17:39			0.007	0.006	
11/15/2018 17:40	12	92.1	0.007	0.006	42.4276;-76.50195
11/15/2018 17:41			0.007	0.006	
11/15/2018 17:42			0.007	0.006	
11/15/2018 17:43			0.007	0.006	
11/15/2018 17:44			0.007	0.01	
11/15/2018 17:45	12	81	0.007	0.007	42.42763;-76.50198
11/15/2018 17:46			0.007	0.006	
11/15/2018 17:47			0.007	0.006	
11/15/2018 17:48			0.007	0.006	
11/15/2018 17:49			0.007	0.006	
11/15/2018 17:50	12	84	0.007	0.006	42.42763;-76.50198
11/15/2018 17:51			0.007	0.006	
11/15/2018 17:52			0.007	0.006	
11/15/2018 17:53			0.007	0.006	
11/15/2018 17:54			0.007	0.006	
11/15/2018 17:55	12	82	0.007	0.006	42.42756;-76.50198
11/15/2018 17:56			0.007	0.006	
11/15/2018 17:57			0.007	0.006	
11/15/2018 17:58			0.007	0.006	
11/15/2018 17:59			0.007	0.006	
11/15/2018 18:00	12	82	0.007	0.006	42.42752;-76.50188
11/15/2018 18:01			0.007	0.006	
11/15/2018 18:02			0.007	0.006	
11/15/2018 18:03			0.007	0.006	
11/15/2018 18:04			0.007	0.006	
11/15/2018 18:05	12	88.1	0.007	0.006	42.42759;-76.50195
11/15/2018 18:06			0.007	0.006	
11/15/2018 18:07			0.007	0.087	
11/15/2018 18:08			0.007	0.007	
11/15/2018 18:09			0.007	0.01	
11/15/2018 18:10	12	84	0.007	0.011	42.42765;-76.50198
11/15/2018 18:11			0.007	0.007	
11/15/2018 18:12			0.007	0.007	
11/15/2018 18:13			0.007	0.006	
11/15/2018 18:14			0.007	0.006	
11/15/2018 18:15	12	83	0.007	0.008	42.4276;-76.50191
11/15/2018 18:16			0.007	0.015	
11/15/2018 18:17			0.007	0.011	
11/15/2018 18:18			0.007	0.007	
11/15/2018 18:19			0.007	0.008	
11/15/2018 18:20	12	93.1	0.007	0.007	42.4276;-76.50193
11/15/2018 18:21			0.007	0.007	
11/15/2018 18:22			0.007	0.007	
11/15/2018 18:23			0.007	0.007	
11/15/2018 18:24			0.007	0.007	
11/15/2018 18:25	11.9	95.1	0.007	0.006	
11/15/2018 18:25					42.42756;-76.50191
11/15/2018 18:26			0.007	0.006	
11/15/2018 18:27			0.007	0.006	
11/15/2018 18:28			0.007	0.006	
11/15/2018 18:29			0.007	0.006	
11/15/2018 18:30	12	88.1	0.007	0.006	42.42761;-76.5019
11/15/2018 18:31			0.007	0.006	
11/15/2018 18:32			0.007	0.006	
11/15/2018 18:33			0.007	0.006	
11/15/2018 18:34			0.007	0.007	
11/15/2018 18:35	12	95.1	0.007	0.008	42.42759;-76.50192
11/15/2018 18:36			0.007	0.006	
11/15/2018 18:37			0.007	0.006	
11/15/2018 18:38			0.008	0.007	
11/15/2018 18:39			0.008	0.011	
11/15/2018 18:40	11.9	83	0.008	0.009	42.42761;-76.50191
11/15/2018 18:41			0.008	0.007	
11/15/2018 18:42			0.008	0.006	
11/15/2018 18:43			0.008	0.006	
11/15/2018 18:44			0.008	0.006	
11/15/2018 18:45	11.9	92.1	0.008	0.006	42.4276;-76.50193
11/15/2018 18:46			0.008	0.006	
11/15/2018 18:47			0.008	0.006	
11/15/2018 18:48			0.008	0.006	
11/15/2018 18:49			0.008	0.006	
11/15/2018 18:50	11.9	82	0.008	0.006	
11/15/2018 18:50					42.42758;-76.50191
11/15/2018 18:51			0.008	0.006	
11/15/2018 18:52			0.008	0.006	
11/15/2018 18:53			0.008	0.006	
11/15/2018 18:54			0.008	0.006	
11/15/2018 18:55	11.9	82	0.008	0.006	42.42758;-76.50189
11/15/2018 18:56			0.008	0.011	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/15/2018 18:57			0.008	0.014	
11/15/2018 18:58			0.008	0.007	
11/15/2018 18:59			0.008	0.006	
11/15/2018 19:00	11.9	103.2	0.008	0.006	42.42757;-76.50191
11/15/2018 19:01			0.008	0.006	
11/15/2018 19:02			0.008	0.006	
11/15/2018 19:03			0.008	0.007	
11/15/2018 19:04			0.008	0.006	
11/15/2018 19:05	11.9	83	0.008	0.006	42.42755;-76.50191
11/15/2018 19:06			0.008	0.007	
11/15/2018 19:07			0.008	0.006	
11/15/2018 19:08			0.008	0.006	
11/15/2018 19:09			0.008	0.006	
11/15/2018 19:10	11.9	88.1	0.008	0.006	42.42758;-76.50191
11/15/2018 19:11			0.008	0.007	
11/15/2018 19:12			0.008	0.006	
11/15/2018 19:13			0.008	0.006	
11/15/2018 19:14			0.008	0.006	
11/15/2018 19:15	11.9	100.2	0.008	0.01	42.42755;-76.50191
11/15/2018 19:16			0.008	0.008	
11/15/2018 19:17			0.008	0.008	
11/15/2018 19:18			0.008	0.007	
11/15/2018 19:19			0.008	0.007	
11/15/2018 19:20	11.9	102.2	0.008	0.007	42.42756;-76.50192
11/15/2018 19:21			0.008	0.008	
11/15/2018 19:22			0.008	0.008	
11/15/2018 19:23			0.008	0.007	
11/15/2018 19:24			0.008	0.008	
11/15/2018 19:25	11.9	82	0.008	0.009	42.42764;-76.50216
11/15/2018 19:26			0.008	0.008	
11/15/2018 19:27			0.008	0.008	
11/15/2018 19:28			0.008	0.007	
11/15/2018 19:29			0.008	0.008	
11/15/2018 19:30	11.8	99.2	0.008	0.008	42.42756;-76.50194
11/15/2018 19:31			0.008	0.009	
11/15/2018 19:32			0.008	0.008	
11/15/2018 19:33			0.008	0.008	
11/15/2018 19:34			0.008	0.007	
11/15/2018 19:35	11.8	83	0.008	0.007	42.42756;-76.50191
11/15/2018 19:36			0.008	0.007	
11/15/2018 19:37			0.008	0.007	
11/15/2018 19:38			0.008	0.008	
11/15/2018 19:39			0.008	0.006	
11/15/2018 19:40	11.8	94.1	0.008	0.007	42.42755;-76.50194
11/15/2018 19:41			0.008	0.007	
11/15/2018 19:42			0.008	0.006	
11/15/2018 19:43			0.008	0.006	
11/15/2018 19:44			0.008	0.006	
11/15/2018 19:45	11.8	92.1	0.009	0.006	42.4276;-76.50192
11/15/2018 19:46			0.009	0.008	
11/15/2018 19:47			0.009	0.007	
11/15/2018 19:48			0.009	0.006	
11/15/2018 19:49			0.009	0.006	
11/15/2018 19:50	11.8	86	0.009	0.006	42.42756;-76.50194
11/15/2018 19:51			0.009	0.006	
11/15/2018 19:52			0.009	0.036	
11/15/2018 19:53			0.009	0.014	
11/15/2018 19:54			0.009	0.01	
11/15/2018 19:55	11.7	91.1	0.009	0.007	42.42758;-76.50194
11/15/2018 19:56			0.009	0.007	
11/15/2018 19:57			0.009	0.006	
11/15/2018 19:58			0.009	0.007	
11/15/2018 19:59			0.009	0.006	
11/15/2018 20:00	11.7	86	0.009	0.006	42.42775;-76.50202
11/15/2018 20:01			0.009	0.006	
11/15/2018 20:02			0.009	0.006	
11/15/2018 20:03			0.009	0.006	
11/15/2018 20:04			0.009	0.006	
11/15/2018 20:05	11.7	91.1	0.009	0.007	42.42755;-76.50195
11/15/2018 20:06			0.009	0.006	
11/15/2018 20:07			0.009	0.006	
11/15/2018 20:08			0.009	0.006	
11/15/2018 20:09			0.009	0.006	
11/15/2018 20:10	11.7	95.1	0.009	0.006	42.42759;-76.50201
11/15/2018 20:11			0.009	0.006	
11/15/2018 20:12				0.017	
11/15/2018 20:15	12.1	81			42.42921;-76.4992
11/15/2018 20:20	12.1	99.2			42.43314;-76.49554
11/15/2018 20:25	12.1	85			42.43309;-76.4956
11/15/2018 20:30	12.1	91.1			42.43307;-76.49561
11/15/2018 20:35	12.1	86			42.43309;-76.49559
11/15/2018 20:40	12.1	81			42.4331;-76.49559
11/15/2018 20:45	12.1	82			42.43189;-76.49651
11/15/2018 20:50	12.1	99.2			
11/15/2018 20:50					42.43258;-76.49699
11/15/2018 20:55	13.2	73.9			
11/15/2018 20:55					42.43236;-76.4972
11/15/2018 21:00	13.1	73.9			
11/15/2018 21:00					42.43238;-76.49748
11/15/2018 21:05	13.1	76.9			
11/15/2018 21:05					42.43271;-76.49738
11/15/2018 21:10	13	82			42.43302;-76.49763
11/15/2018 21:15	13	74.9			42.43229;-76.49756
11/15/2018 21:20	13	80			42.43225;-76.49718
11/15/2018 21:25	13	87			
11/15/2018 21:25					42.43242;-76.49748
11/15/2018 21:30	13	85			
11/15/2018 21:30					42.4324;-76.49704
11/15/2018 21:35	13	75.9			
11/15/2018 21:35					42.43217;-76.49755
11/15/2018 21:40	13	84			42.43242;-76.49743
11/15/2018 21:45	13.1	79			
11/15/2018 21:50	13	83			42.43232;-76.4972
11/15/2018 21:55	13.1	73.9			
11/15/2018 21:55					42.43228;-76.49771
11/15/2018 22:00	13	82			
11/15/2018 22:05	13	101.2			
11/15/2018 22:10	13.1	82			
11/15/2018 22:15	13.1	83			

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/15/2018 22:20	13.1	94.1			
11/15/2018 22:25	13.1	75.9			
11/15/2018 22:30	13.1	82			
11/15/2018 22:35	13.1	84			
11/15/2018 22:40	13.2	76.9			
11/15/2018 22:45	13.2	82			
11/15/2018 22:50	13.2	82			
11/15/2018 22:55	13.2	91.1			
11/15/2018 23:00	13.2	81			
11/15/2018 23:05	13.2	74.9			
11/15/2018 23:10	13.3	81			
11/15/2018 23:15	13.3	82			
11/15/2018 23:20	13.3	75.9			
11/15/2018 23:25	13.3	79			
11/15/2018 23:30	13.3	79			
11/15/2018 23:35	13.3	81			
11/15/2018 23:35					42.4324284;-76.49689029999999
11/15/2018 23:40	13.3	90.1			
11/15/2018 23:45	13.3	85			
11/15/2018 23:50	13.4	80			
11/15/2018 23:55	13.4	90.1			
11/16/2018 0:00	13.4	75.9			
11/16/2018 0:05	13.4	81			
11/16/2018 0:10	13.4	80			
11/16/2018 0:15	13.4	80			
11/16/2018 0:20	13.5	73.9			
11/16/2018 0:25	13.5	83			
11/16/2018 0:30	13.5	81			
11/16/2018 0:35	13.5	82			
11/16/2018 0:40	13.5	91.1			
11/16/2018 0:45	13.6	85			
11/16/2018 0:45					42.4323839;-76.4973077
11/16/2018 0:50	13.6	82			
11/16/2018 0:55	13.6	81			
11/16/2018 1:00	13.6	75.9			
11/16/2018 1:05	13.6	81			
11/16/2018 1:10	13.7	73.9			
11/16/2018 1:15	13.7	77.9			
11/16/2018 1:20	13.7	77.9			
11/16/2018 1:25	13.7	72.9			
11/16/2018 1:30	13.7	72.9			
11/16/2018 1:35	13.8	71.9			
11/16/2018 1:40	13.8	71.9			
11/16/2018 1:45	13.8	70.9			
11/16/2018 1:50	13.9	77.9			
11/16/2018 1:55	13.9	77.9			
11/16/2018 2:00	14	70.9			
11/16/2018 2:05	14	71.9			
11/16/2018 2:10	14.1	75.9			
11/16/2018 2:15	14.1	69.8			
11/16/2018 2:20	14.2	68.8			
11/16/2018 2:25	14.2	76.9			
11/16/2018 2:30	14.3	74.9			
11/16/2018 2:35	14.4	68.8			
11/16/2018 2:40	14.4	74.9			
11/16/2018 2:45	14.7	77.9			
11/16/2018 2:50	14.7	70.9			
11/16/2018 2:55	14.7	66.8			
11/16/2018 3:00	14.7	76.9			
11/16/2018 3:05	14.7	70.9			
11/16/2018 3:05					42.43239;-76.49725099999999
11/16/2018 3:10	14.7	92.1			
11/16/2018 3:15	14.7	74.9			
11/16/2018 3:20	14.7	68.8			
11/16/2018 3:25	14.6	69.8			
11/16/2018 3:30	14.7	73.9			
11/16/2018 3:35	14.7	72.9			
11/16/2018 3:40	14.7	67.8			
11/16/2018 3:45	14.7	68.8			
11/16/2018 3:50	14.7	72.9			
11/16/2018 3:55	14.7	73.9			
11/16/2018 4:00	14.7	66.8			
11/16/2018 4:05	14.7	66.8			
11/16/2018 4:10	14.8	55.7			
11/16/2018 4:15	14.7	66.8			
11/16/2018 4:15					42.4323826;-76.4974467
11/16/2018 4:20	14.8	72.9			
11/16/2018 4:25	14.8	73.9			
11/16/2018 4:30	14.7	71.9			
11/16/2018 4:35	14.8	72.9			
11/16/2018 4:40	14.6	73.9			
11/16/2018 4:45	14.7	72.9			
11/16/2018 4:50	14.7	81			
11/16/2018 4:55	14.7	73.9			
11/16/2018 5:00	14.7	72.9			
11/16/2018 5:05	14.8	81			
11/16/2018 5:10	14.7	72.9			
11/16/2018 5:15	14.6	88.1			
11/16/2018 5:20	14.8	72.9			
11/16/2018 5:25	14.8	61.7			
11/16/2018 5:25					42.4323951;-76.497322
11/16/2018 5:30	14.8	66.8			
11/16/2018 5:35	14.6	75.9			
11/16/2018 5:40	14.8	67.8			
11/16/2018 5:45	14.8	66.8			
11/16/2018 5:50	14.6	74.9			
11/16/2018 5:55	14.7	73.9			
11/16/2018 6:00	14.7	71.9			
11/16/2018 6:05	14.7	68.8			
11/16/2018 6:10	14.8	65.8			
11/16/2018 6:15	14.7	73.9			
11/16/2018 6:20	14.8	72.9			
11/16/2018 6:25	14.7	74.9			
11/16/2018 6:30	14.7	73.9			
11/16/2018 6:35	14.8	69.8			
11/16/2018 6:35					42.4323804;-76.4974581
11/16/2018 6:40	14.7	72.9			
11/16/2018 6:45	14.7	72.9			
11/16/2018 6:50	14.8	69.8			

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/16/2018 6:55	14.8	76.9			
11/16/2018 7:00	14.7	71.9			
11/16/2018 7:05	14.8	70.9			
11/16/2018 7:10	14.8	70.9			
11/16/2018 7:15	14.6	74.9			
11/16/2018 7:20	14.8	66.8			
11/16/2018 7:25	14.7	84			
11/16/2018 7:30	14.7	72.9			
11/16/2018 7:35	14.6	72.9			
11/16/2018 7:40	14.8	83			
11/16/2018 7:45	14.6	93.1			
11/16/2018 7:45					42.4323839;-76.4973077
11/16/2018 7:50	13.7	71.9			
11/16/2018 7:55	13.4	73.9			
11/16/2018 8:00	13.3	73.9			
11/16/2018 8:05	13.3	75.9			
11/16/2018 8:10	13.2	74.9			
11/16/2018 8:15	13.2	85			
11/16/2018 8:20	13.2	74.9			
11/16/2018 8:25	13.2	74.9			
11/16/2018 8:30	13.2	93.1			
11/16/2018 8:35	13.2	82			
11/16/2018 8:40	13.2	82			
11/16/2018 8:45	13.2	92.1			
11/16/2018 8:50	13.2	82			
11/16/2018 8:55	13.2	74.9			
11/16/2018 9:00	13.2	80			
11/16/2018 9:05	13.2	74.9			
11/16/2018 9:10	13.1	81			
11/16/2018 9:15	13.2	76.9			
11/16/2018 9:20	13.1	82			
11/16/2018 9:25	13.1	81			
11/16/2018 9:30	13.1	81			
11/16/2018 9:30					42.432384100000001;-76.4972877
11/16/2018 9:35	13.1	80			
11/16/2018 9:40	13.1	92.1			
11/16/2018 9:45	13.1	76.9			
11/16/2018 9:50	13.1	82			
11/16/2018 9:55	13.1	79			
11/16/2018 10:00	13.1	83			
11/16/2018 10:05	13.1	91.1			
11/16/2018 10:10	13.1	82			
11/16/2018 10:15	13.1	81			
11/16/2018 10:20	13.1	80			
11/16/2018 10:25	13.1	75.9			
11/16/2018 10:30	13.1	81			
11/16/2018 10:35	13.1	92.1			
11/16/2018 10:40	13.1	82			
11/16/2018 10:40					42.432431300000005;-76.4968887
11/16/2018 10:45	13.1	81			
11/16/2018 10:50	13.1	73.9			
11/16/2018 10:55	13.1	82			
11/16/2018 11:00	13.1	74.9			
11/16/2018 11:05	13.1	83			
11/16/2018 11:10	13.1	82			
11/16/2018 11:15	13.1	91.1			
11/16/2018 11:20	13.1	82			
11/16/2018 11:25	13.1	80			
11/16/2018 11:30	13.1	84			
11/16/2018 11:35	13.1	81			
11/16/2018 11:40	13.1	76.9			
11/16/2018 11:45	13.1	82			
11/16/2018 11:50	13.1	81			
11/16/2018 11:50					42.4323903;-76.4973262
11/16/2018 11:55	13.1	80			
11/16/2018 12:00	13.1	81			
11/16/2018 12:05	13.1	74.9			
11/16/2018 12:10	13.1	74.9			
11/16/2018 12:15	13.1	72.9			
11/16/2018 12:20	13.1	73.9			
11/16/2018 12:25	13.1	76.9			
11/16/2018 12:30	13.1	82			
11/16/2018 12:35	13.1	86			
11/16/2018 12:40	13.1	83			
11/16/2018 12:45	13.1	84			
11/16/2018 12:50	13	81			
11/16/2018 12:55	13.1	74.9			
11/16/2018 13:00	13.1	92.1			
11/16/2018 13:00					42.432376999999995;-76.49748249999999
11/16/2018 13:05	13.1	82			
11/16/2018 13:10	13.1	74.9			
11/16/2018 13:15	13.1	81			
11/16/2018 13:20	13.1	79			
11/16/2018 13:25	13	81			
11/16/2018 13:30	13.1	81			
11/16/2018 13:35	13.1	81			
11/16/2018 13:40	13	82			
11/16/2018 13:45	13.1	92.1			
11/16/2018 13:50	13.1	81			
11/16/2018 13:55	13	92.1			
11/16/2018 14:00	13	81			
11/16/2018 14:05	13.1	81			
11/16/2018 14:10	13.1	73.9			
11/16/2018 14:10					42.4323743;-76.4975378
11/19/2018 14:30	13.1	103.2			
11/19/2018 14:31					42.433863099999996;-76.4994763
11/19/2018 14:33			0	0.047	
11/19/2018 14:34			0	0.047	
11/19/2018 14:35	12.9	87	0	0.045	
11/19/2018 14:36			0	0.044	
11/19/2018 14:37			0	0.044	
11/19/2018 14:38			0	0.043	
11/19/2018 14:39			0	0.042	
11/19/2018 14:40	12.8	81	0	0.044	
11/19/2018 14:41			0	0.044	
11/19/2018 14:42			0	0.045	
11/19/2018 14:43			0	0.047	
11/19/2018 14:44			0	0.046	
11/19/2018 14:45	12.8	85	0	0.044	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/19/2018 14:46			0	0.039	
11/19/2018 14:47			0	0.038	
11/19/2018 14:48			0.001	0.036	
11/19/2018 14:49			0.001	0.035	
11/19/2018 14:50	12.8	76.9	0.002	0.034	42.4328;-76.49827
11/19/2018 14:51			0.002	0.034	
11/19/2018 14:52			0.002	0.034	
11/19/2018 14:53			0.002	0.035	
11/19/2018 14:54			0.002	0.034	
11/19/2018 14:55	12.8	88.1	0.002	0.033	42.43276;-76.49839
11/19/2018 14:56			0.002	0.034	
11/19/2018 14:57			0.002	0.033	
11/19/2018 14:58			0.002	0.035	
11/19/2018 14:59			0.002	0.034	
11/19/2018 15:00	12.8	77.9	0.002	0.034	42.43275;-76.49837
11/19/2018 15:01			0.002	0.033	
11/19/2018 15:02			0.002	0.034	
11/19/2018 15:03			0.002	0.033	
11/19/2018 15:04			0.003	0.03	
11/19/2018 15:05	12.8	80	0.003	0.03	42.43272;-76.49836
11/19/2018 15:06			0.003	0.031	
11/19/2018 15:07			0.003	0.032	
11/19/2018 15:08			0.003	0.032	
11/19/2018 15:09			0.003	0.031	
11/19/2018 15:10	12.8	86	0.003	0.031	42.43275;-76.49835
11/19/2018 15:11				0.031	
11/19/2018 15:15	12.9	87			42.43282;-76.49838
11/19/2018 15:20	12.8	76.9			42.43282;-76.4984
11/19/2018 15:22	12.8	107.3			
11/19/2018 15:25	12.7	101.2	0	0.029	
11/19/2018 15:26			0	0.03	
11/19/2018 15:27			0	0.029	
11/19/2018 15:28			0	0.028	
11/19/2018 15:29			0	0.028	
11/19/2018 15:30	12.8	85	0	0.027	
11/19/2018 15:30					42.43275;-76.49831
11/19/2018 15:31			0	0.027	
11/19/2018 15:32			0	0.027	
11/19/2018 15:33			0	0.027	
11/19/2018 15:34			0	0.027	
11/19/2018 15:35	12.8	87	0	0.027	
11/19/2018 15:35					42.43275;-76.49831
11/19/2018 15:36			0	0.027	
11/19/2018 15:37			0	0.028	
11/19/2018 15:38			0	0.026	
11/19/2018 15:39			0	0.03	
11/19/2018 15:40	12.8	88.1	0.001	0.026	
11/19/2018 15:40					42.43277;-76.49834
11/19/2018 15:41			0.001	0.025	
11/19/2018 15:42			0.001	0.025	
11/19/2018 15:43			0.001	0.025	
11/19/2018 15:44			0.001	0.024	
11/19/2018 15:45	12.8	85	0.001	0.024	
11/19/2018 15:45					42.43284;-76.49839
11/19/2018 15:46			0.001	0.023	
11/19/2018 15:47			0.001	0.023	
11/19/2018 15:48			0.001	0.023	
11/19/2018 15:49			0.001	0.023	
11/19/2018 15:50	12.8	82	0.001	0.025	
11/19/2018 15:50					42.43277;-76.49831
11/19/2018 15:51			0.001	0.025	
11/19/2018 15:52			0.001	0.025	
11/19/2018 15:53			0.002	0.026	
11/19/2018 15:54			0.002	0.024	
11/19/2018 15:55	12.8	108.3	0.002	0.023	
11/19/2018 15:55					42.43276;-76.49837
11/19/2018 15:56			0.002	0.021	
11/19/2018 15:57			0.002	0.021	
11/19/2018 15:58			0.002	0.021	
11/19/2018 15:59			0.002	0.021	
11/19/2018 16:00	12.8	72.9	0.002	0.022	
11/19/2018 16:00					42.43274;-76.49824
11/19/2018 16:01			0.002	0.021	
11/19/2018 16:02			0.002	0.022	
11/19/2018 16:03			0.002	0.021	
11/19/2018 16:04			0.002	0.021	
11/19/2018 16:05	12.8	79	0.002	0.021	
11/19/2018 16:05					42.43279;-76.49834
11/19/2018 16:06			0.002	0.02	
11/19/2018 16:07			0.002	0.021	
11/19/2018 16:08			0.002	0.02	
11/19/2018 16:09			0.002	0.021	
11/19/2018 16:10	12.8	79	0.002	0.021	
11/19/2018 16:10					42.43287;-76.49832
11/19/2018 16:11			0.002	0.021	
11/19/2018 16:12			0.002	0.02	
11/19/2018 16:13			0.002	0.02	
11/19/2018 16:14			0.002	0.021	
11/19/2018 16:15	12.8	79	0.002	0.02	
11/19/2018 16:15					42.43285;-76.49835
11/19/2018 16:16			0.003	0.019	
11/19/2018 16:17			0.003	0.019	
11/19/2018 16:18			0.003	0.019	
11/19/2018 16:19			0.003	0.02	
11/19/2018 16:20	12.7	83	0.003	0.02	
11/19/2018 16:20					42.43288;-76.49832
11/19/2018 16:21			0.003	0.02	
11/19/2018 16:22			0.003	0.02	
11/19/2018 16:23			0.003	0.02	
11/19/2018 16:24			0.003	0.019	
11/19/2018 16:25	12.7	85	0.003	0.019	
11/19/2018 16:25					42.43273;-76.49828
11/19/2018 16:26			0.003	0.019	
11/19/2018 16:27			0.003	0.02	
11/19/2018 16:28			0.003	0.019	
11/19/2018 16:29			0.003	0.02	
11/19/2018 16:30	12.7	81	0.003	0.02	
11/19/2018 16:30					42.4328;-76.49827
11/19/2018 16:31			0.003	0.02	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/19/2018 16:32			0.003	0.02	
11/19/2018 16:33			0.003	0.02	
11/19/2018 16:34			0.003	0.02	
11/19/2018 16:35	12.7	83	0.003	0.02	
11/19/2018 16:35					42.43282;-76.49827
11/19/2018 16:36			0.003	0.02	
11/19/2018 16:37			0.003	0.02	
11/19/2018 16:38			0.003	0.02	
11/19/2018 16:39			0.003	0.02	
11/19/2018 16:40	12.7	89.1	0.004	0.019	
11/19/2018 16:40					42.43259;-76.49825
11/19/2018 16:41			0.004	0.019	
11/19/2018 16:42			0.004	0.02	
11/19/2018 16:43			0.004	0.019	
11/19/2018 16:44			0.004	0.019	
11/19/2018 16:45	12.7	90.1	0.004	0.019	
11/19/2018 16:45					42.43272;-76.49825
11/19/2018 16:46			0.004	0.02	
11/19/2018 16:47			0.004	0.02	
11/19/2018 16:48			0.004	0.02	
11/19/2018 16:49			0.004	0.02	
11/19/2018 16:50	12.7	79	0.004	0.02	
11/19/2018 16:50					42.43279;-76.49819
11/19/2018 16:51			0.004	0.019	
11/19/2018 16:52			0.004	0.019	
11/19/2018 16:53			0.004	0.019	
11/19/2018 16:54			0.004	0.019	
11/19/2018 16:55	12.7	79	0.004	0.019	
11/19/2018 16:55					42.43278;-76.49827
11/19/2018 16:56			0.004	0.02	
11/19/2018 16:57			0.004	0.019	
11/19/2018 16:58			0.004	0.02	
11/19/2018 16:59			0.004	0.019	
11/19/2018 17:00	12.7	79	0.004	0.018	
11/19/2018 17:00					42.4328;-76.49835
11/19/2018 17:01			0.004	0.018	
11/19/2018 17:02			0.004	0.018	
11/19/2018 17:03			0.004	0.018	
11/19/2018 17:04			0.004	0.018	
11/19/2018 17:05	12.7	77.9	0.005	0.017	
11/19/2018 17:05					42.43277;-76.49827
11/19/2018 17:06			0.005	0.017	
11/19/2018 17:07			0.005	0.015	
11/19/2018 17:08			0.005	0.015	
11/19/2018 17:09			0.005	0.015	
11/19/2018 17:10	12.7	79	0.005	0.014	
11/19/2018 17:10					42.43284;-76.49837
11/19/2018 17:11			0.005	0.015	
11/19/2018 17:12			0.005	0.015	
11/19/2018 17:13			0.005	0.015	
11/19/2018 17:14			0.005	0.014	
11/19/2018 17:15	12.7	81	0.005	0.015	
11/19/2018 17:15					42.4328;-76.49828
11/19/2018 17:16			0.005	0.014	
11/19/2018 17:17			0.005	0.014	
11/19/2018 17:18			0.005	0.014	
11/19/2018 17:19			0.005	0.013	
11/19/2018 17:20	12.7	87	0.005	0.013	
11/19/2018 17:20					42.43275;-76.4983
11/19/2018 17:21			0.005	0.013	
11/19/2018 17:22			0.005	0.013	
11/19/2018 17:23			0.005	0.015	
11/19/2018 17:24			0.005	0.014	
11/19/2018 17:25	12.7	85	0.005	0.015	
11/19/2018 17:25					42.43282;-76.49834
11/19/2018 17:26			0.005	0.015	
11/19/2018 17:27			0.005	0.015	
11/19/2018 17:28			0.005	0.016	
11/19/2018 17:29			0.005	0.018	
11/19/2018 17:30	12.7	81	0.005	0.017	
11/19/2018 17:30					42.43295;-76.49831
11/19/2018 17:31			0.005	0.017	
11/19/2018 17:32			0.005	0.017	
11/19/2018 17:33			0.005	0.017	
11/19/2018 17:34			0.005	0.017	
11/19/2018 17:35	12.7	79	0.005	0.017	
11/19/2018 17:35					42.43285;-76.49834
11/19/2018 17:36			0.006	0.017	
11/19/2018 17:37			0.006	0.017	
11/19/2018 17:38			0.006	0.017	
11/19/2018 17:39			0.006	0.017	
11/19/2018 17:40	12.7	84	0.006	0.017	
11/19/2018 17:40					42.43291;-76.49826
11/19/2018 17:41			0.006	0.017	
11/19/2018 17:42			0.006	0.017	
11/19/2018 17:43			0.006	0.017	
11/19/2018 17:44			0.006	0.017	
11/19/2018 17:45	12.7	77.9	0.006	0.017	
11/19/2018 17:45					42.43278;-76.49834
11/19/2018 17:46			0.006	0.017	
11/19/2018 17:47			0.006	0.017	
11/19/2018 17:48			0.006	0.016	
11/19/2018 17:49			0.006	0.016	
11/19/2018 17:50	12.7	95.1	0.006	0.017	
11/19/2018 17:50					42.43282;-76.49837
11/19/2018 17:51			0.006	0.017	
11/19/2018 17:52			0.006	0.017	
11/19/2018 17:53			0.006	0.017	
11/19/2018 17:54			0.006	0.016	
11/19/2018 17:55	12.7	92.1	0.006	0.017	
11/19/2018 17:55					42.43275;-76.49836
11/19/2018 17:56			0.006	0.016	
11/19/2018 17:57			0.006	0.015	
11/19/2018 17:58			0.006	0.014	
11/19/2018 17:59			0.006	0.014	
11/19/2018 18:00	12.7	77.9	0.006	0.015	
11/19/2018 18:00					42.43272;-76.49832
11/19/2018 18:01			0.006	0.014	
11/19/2018 18:02			0.006	0.016	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/19/2018 18:03			0.006	0.017	
11/19/2018 18:04			0.006	0.017	
11/19/2018 18:05	12.7	77.9	0.006	0.017	
11/19/2018 18:05					42.43277;-76.49834
11/19/2018 18:06			0.007	0.017	
11/19/2018 18:07			0.007	0.017	
11/19/2018 18:08			0.007	0.017	
11/19/2018 18:09			0.007	0.017	
11/19/2018 18:10	12.7	83	0.007	0.016	
11/19/2018 18:10					42.43281;-76.49836
11/19/2018 18:11			0.007	0.015	
11/19/2018 18:12			0.007	0.013	
11/19/2018 18:13			0.007	0.013	
11/19/2018 18:14			0.007	0.014	
11/19/2018 18:15	12.7	84	0.007	0.014	
11/19/2018 18:15					42.43277;-76.49834
11/19/2018 18:16			0.007	0.015	
11/19/2018 18:17			0.007	0.015	
11/19/2018 18:18			0.007	0.014	
11/19/2018 18:19			0.007	0.016	
11/19/2018 18:20	12.7	83	0.007	0.016	
11/19/2018 18:20					42.43271;-76.49836
11/19/2018 18:21			0.007	0.016	
11/19/2018 18:22			0.007	0.017	
11/19/2018 18:23			0.007	0.016	
11/19/2018 18:24			0.007	0.014	
11/19/2018 18:25	12.7	109.3	0.007	0.015	
11/19/2018 18:25					42.4328;-76.49834
11/19/2018 18:26			0.007	0.015	
11/19/2018 18:27			0.007	0.014	
11/19/2018 18:28			0.007	0.014	
11/19/2018 18:29			0.007	0.015	
11/19/2018 18:30	12.7	81	0.007	0.015	
11/19/2018 18:30					42.43274;-76.49836
11/19/2018 18:31			0.007	0.015	
11/19/2018 18:32			0.007	0.016	
11/19/2018 18:33			0.007	0.016	
11/19/2018 18:34			0.007	0.015	
11/19/2018 18:35	12.7	83	0.007	0.015	
11/19/2018 18:35					42.43283;-76.49825
11/19/2018 18:36			0.007	0.016	
11/19/2018 18:37			0.008	0.016	
11/19/2018 18:38			0.008	0.016	
11/19/2018 18:39			0.008	0.016	
11/19/2018 18:40	12.7	84	0.008	0.016	
11/19/2018 18:40					42.43275;-76.49835
11/19/2018 18:41			0.008	0.016	
11/19/2018 18:42			0.008	0.016	
11/19/2018 18:43			0.008	0.015	
11/19/2018 18:44			0.008	0.015	
11/19/2018 18:45	12.7	81	0.008	0.014	
11/19/2018 18:45					42.43284;-76.49839
11/19/2018 18:46			0.008	0.013	
11/19/2018 18:47			0.008	0.013	
11/19/2018 18:48			0.008	0.013	
11/19/2018 18:49			0.008	0.013	
11/19/2018 18:50	12.7	79	0.008	0.013	
11/19/2018 18:50					42.43278;-76.49836
11/19/2018 18:51			0.008	0.013	
11/19/2018 18:52			0.008	0.013	
11/19/2018 18:53			0.008	0.013	
11/19/2018 18:54			0.008	0.013	
11/19/2018 18:55	12.7	87	0.008	0.013	
11/19/2018 18:55					42.43276;-76.49836
11/19/2018 18:56			0.008	0.013	
11/19/2018 18:57			0.008	0.013	
11/19/2018 18:58			0.008	0.013	
11/19/2018 18:59			0.008	0.012	
11/19/2018 19:00	12.7	89.1	0.008	0.013	
11/19/2018 19:00					42.43278;-76.49838
11/19/2018 19:01			0.008	0.013	
11/19/2018 19:02			0.008	0.013	
11/19/2018 19:03			0.008	0.012	
11/19/2018 19:04			0.008	0.012	
11/19/2018 19:05	12.7	77.9	0.008	0.012	
11/19/2018 19:05					42.43281;-76.49838
11/19/2018 19:06			0.008	0.012	
11/19/2018 19:07			0.008	0.012	
11/19/2018 19:08			0.008	0.012	
11/19/2018 19:09			0.008	0.012	
11/19/2018 19:10	12.7	89.1	0.008	0.012	
11/19/2018 19:10					42.43284;-76.4984
11/19/2018 19:11			0.008	0.012	
11/19/2018 19:12			0.008	0.012	
11/19/2018 19:13			0.008	0.012	
11/19/2018 19:14			0.009	0.012	
11/19/2018 19:15	12.7	86	0.009	0.012	
11/19/2018 19:15					42.43276;-76.49836
11/19/2018 19:16			0.009	0.012	
11/19/2018 19:17			0.009	0.012	
11/19/2018 19:18			0.009	0.012	
11/19/2018 19:19			0.009	0.012	
11/19/2018 19:20	12.7	85	0.009	0.012	
11/19/2018 19:20					42.43271;-76.49837
11/19/2018 19:21			0.009	0.012	
11/19/2018 19:22			0.009	0.012	
11/19/2018 19:23			0.009	0.012	
11/19/2018 19:24			0.009	0.012	
11/19/2018 19:25	12.6	103.2	0.009	0.012	
11/19/2018 19:25					42.43278;-76.49839
11/19/2018 19:26			0.009	0.011	
11/19/2018 19:27			0.009	0.011	
11/19/2018 19:28			0.009	0.012	
11/19/2018 19:29			0.009	0.012	
11/19/2018 19:30	12.6	82	0.009	0.012	
11/19/2018 19:30					42.43268;-76.49833
11/19/2018 19:31			0.009	0.012	
11/19/2018 19:32			0.009	0.012	
11/19/2018 19:33			0.009	0.012	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/19/2018 19:34			0.009	0.012	
11/19/2018 19:35	12.6	82	0.009	0.012	
11/19/2018 19:35					42.43268;-76.49837
11/19/2018 19:36			0.009	0.012	
11/19/2018 19:37			0.009	0.012	
11/19/2018 19:38			0.009	0.012	
11/19/2018 19:39			0.009	0.012	
11/19/2018 19:40	12.6	80	0.009	0.012	
11/19/2018 19:40					42.43273;-76.49841
11/19/2018 19:41			0.009	0.012	
11/19/2018 19:42			0.009	0.012	
11/19/2018 19:43			0.009	0.012	
11/19/2018 19:44			0.009	0.012	
11/19/2018 19:45	12.6	94.1	0.009	0.012	
11/19/2018 19:45					42.43263;-76.4983
11/19/2018 19:46			0.009	0.012	
11/19/2018 19:47			0.009	0.012	
11/19/2018 19:48			0.009	0.012	
11/19/2018 19:49			0.009	0.012	
11/19/2018 19:50	12.6	91.1	0.009	0.012	
11/19/2018 19:50					42.43274;-76.49836
11/19/2018 19:51			0.009	0.011	
11/19/2018 19:52			0.009	0.011	
11/19/2018 19:53			0.009	0.012	
11/19/2018 19:54			0.01	0.011	
11/19/2018 19:55	12.6	81	0.01	0.012	
11/19/2018 19:55					42.43276;-76.49838
11/19/2018 19:56			0.01	0.011	
11/19/2018 19:57			0.01	0.011	
11/19/2018 19:58			0.01	0.011	
11/19/2018 19:59			0.01	0.011	
11/19/2018 20:00	12.6	81	0.01	0.011	
11/19/2018 20:00					42.43275;-76.49839
11/19/2018 20:01			0.01	0.011	
11/19/2018 20:02			0.01	0.011	
11/19/2018 20:03			0.01	0.011	
11/19/2018 20:04			0.01	0.012	
11/19/2018 20:05	12.6	84	0.01	0.012	
11/19/2018 20:05					42.43274;-76.49841
11/19/2018 20:06			0.01	0.012	
11/19/2018 20:07			0.01	0.012	
11/19/2018 20:08			0.01	0.012	
11/19/2018 20:09			0.01	0.012	
11/19/2018 20:10	12.6	93.1	0.01	0.012	
11/19/2018 20:10					42.43277;-76.49837
11/19/2018 20:11			0.01	0.011	
11/19/2018 20:12			0.01	0.011	
11/19/2018 20:13			0.01	0.012	
11/19/2018 20:14			0.01	0.012	
11/19/2018 20:15	12.6	93.1	0.01	0.012	
11/19/2018 20:15					42.43278;-76.49834
11/19/2018 20:16			0.01	0.012	
11/19/2018 20:17			0.01	0.012	
11/19/2018 20:18			0.01	0.012	
11/19/2018 20:19			0.01	0.012	
11/19/2018 20:20	12.6	79	0.01	0.012	
11/19/2018 20:20					42.4328;-76.49834
11/19/2018 20:21			0.01	0.012	
11/19/2018 20:22			0.01	0.012	
11/19/2018 20:23			0.01	0.011	
11/19/2018 20:24			0.01	0.012	
11/19/2018 20:25	12.6	99.2	0.01	0.012	
11/19/2018 20:25					42.43277;-76.49837
11/19/2018 20:26			0.01	0.012	
11/19/2018 20:27			0.01	0.012	
11/19/2018 20:28			0.01	0.012	
11/19/2018 20:29			0.01	0.012	
11/19/2018 20:30	12.6	104.3	0.01	0.012	
11/19/2018 20:30					42.43278;-76.49839
11/19/2018 20:31			0.01	0.013	
11/19/2018 20:32			0.01	0.012	
11/19/2018 20:33			0.01	0.013	
11/19/2018 20:34			0.01	0.013	
11/19/2018 20:35	12.6	95.1	0.011	0.012	
11/19/2018 20:35					42.43277;-76.49835
11/19/2018 20:36			0.011	0.012	
11/19/2018 20:37			0.011	0.012	
11/19/2018 20:38			0.011	0.012	
11/19/2018 20:39			0.011	0.012	
11/19/2018 20:40	12.6	83	0.011	0.012	
11/19/2018 20:40					42.43272;-76.49833
11/19/2018 20:41			0.011	0.012	
11/19/2018 20:42			0.011	0.012	
11/19/2018 20:43			0.011	0.012	
11/19/2018 20:44			0.011	0.012	
11/19/2018 20:45	12.6	77.9	0.011	0.012	
11/19/2018 20:45					42.43277;-76.49836
11/19/2018 20:46			0.011	0.012	
11/19/2018 20:47			0.011	0.012	
11/19/2018 20:48			0.011	0.012	
11/19/2018 20:49			0.011	0.012	
11/19/2018 20:50	12.6	86	0.011	0.012	
11/19/2018 20:50					42.43281;-76.49836
11/19/2018 20:51			0.011	0.012	
11/19/2018 20:52			0.011	0.012	
11/19/2018 20:53			0.011	0.012	
11/19/2018 20:54			0.011	0.012	
11/19/2018 20:55	12.6	85	0.011	0.012	
11/19/2018 20:55					42.43281;-76.49828
11/19/2018 20:56			0.011	0.012	
11/19/2018 20:57			0.011	0.012	
11/19/2018 20:58			0.011	0.012	
11/19/2018 20:59			0.011	0.012	
11/19/2018 21:00	12.6	90.1	0.011	0.012	
11/19/2018 21:00					42.43279;-76.49836
11/19/2018 21:01			0.011	0.012	
11/19/2018 21:02			0.011	0.012	
11/19/2018 21:03			0.011	0.012	
11/19/2018 21:04			0.011	0.012	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/19/2018 21:05	12.6	98.2	0.011	0.012	
11/19/2018 21:05					42.43283;-76.49838
11/19/2018 21:06			0.011	0.012	
11/19/2018 21:07			0.011	0.012	
11/19/2018 21:08			0.011	0.012	
11/19/2018 21:09			0.011	0.012	
11/19/2018 21:10	12.6	79	0.011	0.012	
11/19/2018 21:10					42.43278;-76.4984
11/19/2018 21:11			0.011	0.012	
11/19/2018 21:12			0.011	0.012	
11/19/2018 21:13			0.011	0.012	
11/19/2018 21:14			0.011	0.012	
11/19/2018 21:15	12.6	79	0.012	0.012	
11/19/2018 21:15					42.4328;-76.49838
11/19/2018 21:16			0.012	0.012	
11/19/2018 21:17			0.012	0.012	
11/19/2018 21:18			0.012	0.012	
11/19/2018 21:19			0.012	0.012	
11/19/2018 21:20	12.5	80	0.012	0.012	
11/19/2018 21:20					42.43285;-76.49845
11/19/2018 21:21			0.012	0.012	
11/19/2018 21:22			0.012	0.012	
11/19/2018 21:23			0.012	0.012	
11/19/2018 21:24			0.012	0.012	
11/19/2018 21:25	12.5	110.3	0.012	0.012	
11/19/2018 21:25					42.43282;-76.49837
11/19/2018 21:26			0.012	0.013	
11/19/2018 21:27			0.012	0.012	
11/19/2018 21:28			0.012	0.012	
11/19/2018 21:29			0.012	0.012	
11/19/2018 21:30	12.5	87	0.012	0.012	
11/19/2018 21:30					42.43277;-76.4984
11/19/2018 21:31			0.012	0.012	
11/19/2018 21:32			0.012	0.012	
11/19/2018 21:33			0.012	0.012	
11/19/2018 21:34			0.012	0.012	
11/19/2018 21:35	12.5	86	0.012	0.012	
11/19/2018 21:35					42.43279;-76.4984
11/19/2018 21:36			0.012	0.012	
11/19/2018 21:37			0.012	0.012	
11/19/2018 21:38			0.012	0.012	
11/19/2018 21:39			0.012	0.012	
11/19/2018 21:40	12.5	83	0.012	0.012	
11/19/2018 21:40					42.43276;-76.49839
11/19/2018 21:41			0.012	0.013	
11/19/2018 21:42			0.012	0.013	
11/19/2018 21:43			0.012	0.013	
11/19/2018 21:44			0.012	0.013	
11/19/2018 21:45	12.5	80	0.012	0.012	
11/19/2018 21:45					42.43275;-76.49832
11/19/2018 21:46			0.012	0.013	
11/19/2018 21:47			0.012	0.012	
11/19/2018 21:48			0.012	0.013	
11/19/2018 21:49			0.012	0.013	
11/19/2018 21:50	12.5	79	0.012	0.013	
11/19/2018 21:50					42.43279;-76.49841
11/19/2018 21:51			0.012	0.013	
11/19/2018 21:52			0.012	0.013	
11/19/2018 21:53			0.012	0.013	
11/19/2018 21:54			0.013	0.013	
11/19/2018 21:55	12.5	87	0.013	0.013	
11/19/2018 21:55					42.43282;-76.49844
11/19/2018 21:56			0.013	0.013	
11/19/2018 21:57			0.013	0.013	
11/19/2018 21:58			0.013	0.013	
11/19/2018 21:59			0.013	0.013	
11/19/2018 22:00	12.5	84	0.013	0.013	
11/19/2018 22:00					42.4328;-76.49838
11/19/2018 22:01			0.013	0.013	
11/19/2018 22:02			0.013	0.013	
11/19/2018 22:03			0.013	0.013	
11/19/2018 22:04			0.013	0.013	
11/19/2018 22:05	12.5	79	0.013	0.013	
11/19/2018 22:05					42.43288;-76.49844
11/19/2018 22:06			0.013	0.013	
11/19/2018 22:07			0.013	0.013	
11/19/2018 22:08			0.013	0.013	
11/19/2018 22:09			0.013	0.013	
11/19/2018 22:10	12.5	79	0.013	0.013	
11/19/2018 22:10					42.4328;-76.49838
11/19/2018 22:11			0.013	0.014	
11/19/2018 22:12			0.013	0.014	
11/19/2018 22:13			0.013	0.014	
11/19/2018 22:14			0.013	0.013	
11/19/2018 22:15	12.5	79	0.013	0.014	
11/19/2018 22:15					42.43278;-76.49836
11/19/2018 22:16			0.013	0.014	
11/19/2018 22:17			0.013	0.014	
11/19/2018 22:18			0.013	0.014	
11/19/2018 22:19			0.013	0.014	
11/19/2018 22:20	12.5	80	0.013	0.014	
11/19/2018 22:20					42.43277;-76.49843
11/19/2018 22:21			0.013	0.014	
11/19/2018 22:22			0.013	0.014	
11/19/2018 22:23			0.013	0.014	
11/19/2018 22:24			0.013	0.014	
11/19/2018 22:25	12.5	111.3	0.013	0.014	
11/19/2018 22:25					42.43277;-76.49842
11/19/2018 22:26			0.013	0.014	
11/19/2018 22:27			0.013	0.014	
11/26/2018 14:39	13	98.2			
11/26/2018 14:40	12.9	86			
11/26/2018 14:40					42.42769;-76.50057
11/26/2018 14:41			0		
11/26/2018 14:42			0	0.036	
11/26/2018 14:43			0	0.034	
11/26/2018 14:44			0	0.034	
11/26/2018 14:45	12.8	76.9	0	0.033	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/26/2018 14:45					42.42759;-76.50083
11/26/2018 14:46			0	0.033	
11/26/2018 14:47				0.033	
11/26/2018 14:50	12.9	76.9			
11/26/2018 14:50					42.42758;-76.50081
11/26/2018 14:55	12.9	88.1			
11/26/2018 14:55					42.42752;-76.50089
11/26/2018 15:00	12.8	93.1			42.42757;-76.50078
11/26/2018 15:05	12.8	93.1			42.42765;-76.50085
11/26/2018 15:10	12.8	79			42.42775;-76.50089
11/26/2018 15:15	12.8	81			
11/26/2018 15:15					42.42751;-76.50076
11/26/2018 15:20	12.8	80			
11/26/2018 15:20					42.4276;-76.50089
11/26/2018 15:25	12.8	80			
11/26/2018 15:25					42.42757;-76.50082
11/26/2018 15:30	12.8	77.9			42.42751;-76.50079
11/26/2018 15:35	12.8	79			42.42752;-76.50077
11/26/2018 15:40	12.8	76.9			42.42752;-76.50083
11/26/2018 15:45	12.8	80			
11/26/2018 15:45					42.42752;-76.50077
11/26/2018 15:50	12.8	89.1			
11/26/2018 15:50					42.42751;-76.50072
11/26/2018 15:55	12.8	96.2			
11/26/2018 15:55					42.42756;-76.50078
11/26/2018 16:00	12.8	76.9			42.42757;-76.50078
11/26/2018 16:05	12.8	75.9			42.42757;-76.50078
11/26/2018 16:10	12.8	76.9			42.42753;-76.50076
11/26/2018 16:15	12.8	83			42.42749;-76.50086
11/26/2018 16:20	12.8	79			42.42751;-76.50081
11/26/2018 16:25	12.8	76.9			42.4276;-76.50073
11/26/2018 16:30	12.8	89.1			42.42763;-76.50079
11/26/2018 16:35	12.8	80			42.42761;-76.50078
11/26/2018 16:40	12.8	83			42.42764;-76.50074
11/26/2018 16:45	12.7	77.9			42.42754;-76.50076
11/26/2018 16:50	12.7	77.9			42.42752;-76.50076
11/26/2018 16:55	12.7	76.9			42.42751;-76.50082
11/26/2018 17:00	12.7	77.9			42.42754;-76.50076
11/26/2018 17:05	12.7	83			42.42756;-76.50075
11/26/2018 17:10	12.7	89.1			42.42758;-76.50074
11/26/2018 17:15	12.7	86			42.42758;-76.50078
11/26/2018 17:20	12.7	79			42.42757;-76.50079
11/26/2018 17:25	12.7	81			42.42751;-76.50086
11/26/2018 17:30	12.7	77.9			42.42759;-76.50077
11/26/2018 17:35	12.7	88.1			42.42752;-76.50079
11/26/2018 17:40	12.7	94.1			42.4275;-76.50083
11/26/2018 17:45	12.7	79			42.42754;-76.50079
11/26/2018 17:50	12.7	87			42.42744;-76.50072
11/26/2018 17:55	12.7	79			42.42752;-76.50074
11/26/2018 18:00	12.7	79			42.42746;-76.50079
11/26/2018 18:05	12.7	89.1			42.42747;-76.50079
11/26/2018 18:10	12.7	84			42.42751;-76.50077
11/26/2018 18:15	12.7	109.3			42.42745;-76.50085
11/26/2018 18:20	12.7	86			42.42753;-76.50079
11/26/2018 18:25	12.7	77.9			
11/26/2018 18:25					42.42755;-76.50082
11/26/2018 18:30	12.7	85			
11/26/2018 18:30					42.42756;-76.50079
11/26/2018 18:35	12.7	81			42.42752;-76.50076
11/26/2018 18:40	12.7	81			
11/26/2018 18:40					42.42764;-76.50057
11/26/2018 18:45	12.6	92.1			
11/26/2018 18:45					42.42755;-76.50071
11/26/2018 18:50	12.6	84			
11/26/2018 18:50					42.42749;-76.50079
11/26/2018 18:55	12.6	90.1			42.42761;-76.50074
11/26/2018 19:00	12.6	77.9			42.42749;-76.50076
11/26/2018 19:05	12.6	77.9			
11/26/2018 19:05					42.42746;-76.50076
11/26/2018 19:10	12.6	79			42.42755;-76.50076
11/26/2018 19:15	12.6	77.9			42.42758;-76.50082
11/26/2018 19:20	12.6	87			
11/26/2018 19:20					42.42761;-76.50079
11/26/2018 19:25	12.6	90.1			42.42756;-76.50081
11/26/2018 19:30	12.6	83			42.42756;-76.50082
11/26/2018 19:35	12.6	86			
11/26/2018 19:35					42.42752;-76.50089
11/26/2018 19:40	12.6	77.9			42.42755;-76.50082
11/26/2018 19:45	12.6	88.1			42.42757;-76.50082
11/26/2018 19:50	12.6	88.1			
11/26/2018 19:50					42.42748;-76.50085
11/26/2018 19:55	12.6	80			42.42749;-76.50085
11/26/2018 20:00	12.6	87			42.42749;-76.50085
11/26/2018 20:05	12.6	79			
11/26/2018 20:05					42.42748;-76.50086
11/26/2018 20:10	12.6	88.1			42.42746;-76.5009
11/26/2018 20:15	12.6	93.1			42.42744;-76.50088
11/26/2018 20:20	12.6	85			
11/26/2018 20:20					42.42749;-76.5009
11/26/2018 20:25	12.6	79			42.42751;-76.50092
11/26/2018 20:30	12.6	79			42.42756;-76.50085
11/26/2018 20:35	12.6	91.1			
11/26/2018 20:35					42.42754;-76.50083
11/26/2018 20:40	12.6	79			42.42755;-76.50086
11/26/2018 20:45	12.6	88.1			42.42755;-76.50085
11/26/2018 20:50	12.6	77.9			
11/26/2018 20:50					42.42756;-76.50082
11/26/2018 20:55	12.6	84			42.42753;-76.50085
11/26/2018 21:00	12.6	79			42.42755;-76.50087
11/26/2018 21:05	12.6	82			42.42757;-76.50087
11/26/2018 21:10	12.5	82			42.42759;-76.50087
11/26/2018 21:15	12.6	91.1			42.42751;-76.50085
11/26/2018 21:20	12.5	82			42.42751;-76.50084
11/26/2018 21:25	12.5	81			42.42749;-76.50082
11/26/2018 21:30	12.5	81			42.4275;-76.50084
11/26/2018 21:35	12.5	106.3			
11/26/2018 21:35					42.42761;-76.50088
11/26/2018 21:40	12.5	79			42.42757;-76.50082
11/26/2018 21:45	12.5	86			42.42755;-76.50086

Appendix F

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/26/2018 21:50	12.5	79			42.42755;-76.50087
11/29/2018 18:16	13.1	99.2			
11/29/2018 18:20	12.9	80	0	0.006	
11/29/2018 18:20					42.43091;-76.498
11/29/2018 18:21			0	0.006	
11/29/2018 18:22				0.006	
11/29/2018 18:25	12.8	76.9			
11/29/2018 18:25					42.43091;-76.49802
11/29/2018 18:30	12.9	85			42.431;-76.49807
11/29/2018 18:35	12.9	84			42.43095;-76.49807
11/29/2018 18:40	12.9	82			42.43091;-76.49805
11/29/2018 18:45	12.9	77.9			42.43088;-76.49805
11/29/2018 18:50	12.8	91.1			42.43092;-76.49805
11/29/2018 18:55	12.8	81			42.43087;-76.49803
11/29/2018 19:00	12.8	77.9			42.43087;-76.49805
11/29/2018 19:05	12.8	79			42.43087;-76.49802
11/29/2018 19:10	12.8	76.9			42.43087;-76.49805
11/29/2018 19:15	12.8	76.9			42.43087;-76.49806
11/29/2018 19:20	12.8	97.2			42.43093;-76.49805
11/29/2018 19:25	12.8	76.9			42.4309;-76.49803
11/29/2018 19:30	12.8	80			42.4309;-76.49806
11/29/2018 19:35	12.8	77.9			42.43092;-76.49804
11/29/2018 19:40	12.8	83			42.43092;-76.49806
11/29/2018 19:45	12.8	88.1			42.43095;-76.49807
11/29/2018 19:50	12.8	99.2			42.43093;-76.49807
11/29/2018 19:55	12.8	76.9			42.43094;-76.49805
11/29/2018 20:00	12.8	88.1			42.43095;-76.49805
11/30/2018 13:13	13	98.2			
11/30/2018 13:14					42.433737;-76.4985919
11/30/2018 13:15	12.9	88.1			
11/30/2018 13:15					42.43278;-76.49821
11/30/2018 13:16			0	0.011	
11/30/2018 13:17			0	0.01	
11/30/2018 13:18			0	0.01	
11/30/2018 13:19				0.01	
11/30/2018 13:20	12.8	90.1			
11/30/2018 13:20					42.43286;-76.49825
11/30/2018 13:25	13	104.3			
11/30/2018 13:30	12.9	82			
11/30/2018 13:30					42.43283;-76.49828
11/30/2018 13:35	12.9	75.9			
11/30/2018 13:35					42.43289;-76.49832
11/30/2018 13:40	12.9	84			
11/30/2018 13:40					42.43281;-76.49825
11/30/2018 13:45	12.9	75.9			42.4328;-76.49828
11/30/2018 13:50	12.9	83			42.43279;-76.49825
11/30/2018 13:55	12.9	86			42.43273;-76.49827
11/30/2018 14:00	12.9	82			42.43276;-76.49827
11/30/2018 14:05	12.9	74.9			
11/30/2018 14:05					42.43282;-76.49836
11/30/2018 14:10	12.8	83			
11/30/2018 14:10					42.4328;-76.49834
11/30/2018 14:15	12.8	80			
11/30/2018 14:15					42.4328;-76.49831
11/30/2018 14:20	12.8	79			
11/30/2018 14:20					42.43277;-76.49832

Appendix F

Community Air Monitoring Program - Downwind Station
October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/15/2018 16:28	12.5	97.2								
10/15/2018 16:30	12.5	81								
10/15/2018 16:30	12.5	107.3								
10/15/2018 16:35	12.5	60.7								
10/15/2018 16:36	12.5	99.2								
10/15/2018 16:39	12.5	97.2								
10/15/2018 16:40	12.5	156.9								
10/15/2018 16:46	12.7	98.2								
10/15/2018 16:50	12.7	71.9								
10/15/2018 16:55	12.5	69.8								
10/15/2018 17:00	12.5	76.9								
10/15/2018 17:03	12.5	100.2								
10/15/2018 17:05	12.5	70.9								
10/15/2018 17:10	12.5	79								
10/15/2018 17:12	12.5	100.2								
10/15/2018 17:15	12.5	94.1								
10/15/2018 17:20	12.5	86								
10/15/2018 17:25	12.7	75.9								
10/15/2018 17:30	12.7	76.9								
10/15/2018 17:35	12.7	75.9								
10/15/2018 17:40	12.7	79								
10/15/2018 17:45	12.7	77.9								
10/15/2018 17:50	12.7	70.9								
10/15/2018 17:55	12.7	71.9								42.43229;-76.4975
10/15/2018 18:00	12.7	70.9								42.43217;-76.49745
10/15/2018 18:05	12.7	68.8								42.43235;-76.49741
10/15/2018 18:10	12.7	69.8								
10/15/2018 18:10										42.43218;-76.49718
10/15/2018 18:15	12.7	69.8								
10/15/2018 18:15										42.43211;-76.49763
10/15/2018 18:20	12.7	70.9								
10/15/2018 18:20										42.43223;-76.49739
10/15/2018 18:25	12.7	74.9								
10/15/2018 18:25										42.43263;-76.49761
10/15/2018 18:30	12.7	74.9								42.43201;-76.49709
10/15/2018 18:35	12.7	75.9								42.43222;-76.49734
10/15/2018 18:40	12.7	77.9								42.43276;-76.49808
10/15/2018 18:45	12.7	70.9								
10/15/2018 18:45										42.43212;-76.49738
10/15/2018 18:50	12.7	71.9								
10/15/2018 18:50										42.43195;-76.49712
10/15/2018 18:55	12.7	68.8								
10/15/2018 18:55										42.43217;-76.4974
10/15/2018 19:00	12.7	74.9								
10/15/2018 19:00										42.43227;-76.49723
10/15/2018 19:05	12.7	74.9								42.43221;-76.49727
10/15/2018 19:10	12.6	69.8								42.43222;-76.49709
10/15/2018 19:15	12.7	68.8								42.43224;-76.4972
10/15/2018 19:20	12.6	76.9								42.43235;-76.49721
10/15/2018 19:25	12.6	69.8								
10/15/2018 19:25										42.43229;-76.49714
10/15/2018 19:30	12.6	72.9								
10/15/2018 19:30										42.43254;-76.49708
10/15/2018 19:35	12.6	71.9								
10/15/2018 19:35										42.43217;-76.49737
10/15/2018 19:40	12.7	68.8								42.43214;-76.4972
10/15/2018 19:45	12.6	77.9								42.43273;-76.49725
10/15/2018 19:50	12.6	70.9								42.43237;-76.49718
10/15/2018 19:55	12.6	70.9								42.43258;-76.49683
10/15/2018 20:00	12.6	69.8								
10/15/2018 20:00										42.43252;-76.49761
10/15/2018 20:05	12.6	72.9								
10/15/2018 20:05										42.43259;-76.49744
10/15/2018 20:10	12.6	69.8								
10/15/2018 20:10										42.43253;-76.49723
10/15/2018 20:15	12.6	69.8								
10/15/2018 20:15										42.43252;-76.49736
10/15/2018 20:20	12.6	79								42.43221;-76.49742
10/15/2018 20:25	12.6	67.8								42.43258;-76.4973
10/15/2018 20:30	12.6	68.8								42.43234;-76.49739
10/15/2018 20:35	12.6	79								
10/15/2018 20:35										42.43232;-76.49741
10/15/2018 20:40	12.6	82								
10/15/2018 20:40										42.43243;-76.49719
10/15/2018 20:45	12.7	80								
10/15/2018 20:45										42.43248;-76.49752
10/16/2018 12:13	12.8	97.2								
10/16/2018 12:13										42.4317273;-76.5036791
10/16/2018 12:15	12.7	76.9								
10/16/2018 12:15										42.43233;-76.49828
10/16/2018 12:20	12.7	79								
10/16/2018 12:20										42.43215;-76.49825
10/16/2018 12:25	12.6	69.8								
10/16/2018 12:25										42.43214;-76.49829
10/16/2018 12:30	12.6	81								
10/16/2018 12:30										42.43206;-76.49819
10/16/2018 12:35	12.6	76.9								
10/16/2018 12:35										42.43217;-76.49829
10/16/2018 12:40	12.6	72.9								42.43209;-76.4983
10/16/2018 12:45	12.6	79								42.43203;-76.49825
10/16/2018 12:50	12.6	69.8								42.43213;-76.49826
10/16/2018 12:55	12.5	83								
10/16/2018 12:55										42.43209;-76.49828
10/16/2018 13:00	12.5	70.9								
10/16/2018 13:00										42.43211;-76.4982
10/16/2018 13:05	12.5	70.9								
10/16/2018 13:05										42.43219;-76.49829
10/16/2018 13:10	12.5	71.9								42.43208;-76.49831
10/16/2018 13:15	12.4	71.9								
10/16/2018 13:15										42.43198;-76.49841
10/16/2018 13:20	12.4	74.9								
10/16/2018 13:20										42.43192;-76.49837
10/16/2018 13:25	12.4	76.9								
10/16/2018 13:25										42.43199;-76.49833
10/16/2018 13:30	12.4	70.9								
10/16/2018 13:30										42.43205;-76.49837
10/16/2018 13:35	12.4	71.9								42.43198;-76.49839
10/16/2018 13:40	12.4	73.9								42.43201;-76.49842
10/16/2018 13:45	12.4	70.9								42.43203;-76.49839

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/16/2018 13:50	12.4	76.9								
10/16/2018 13:50										42.43207;-76.49836
10/16/2018 13:55	12.4	72.9								
10/16/2018 13:55										42.43211;-76.4984
10/16/2018 14:00	12.4	71.9								
10/16/2018 14:00										42.43204;-76.49834
10/16/2018 14:05	12.4	73.9								42.43214;-76.49839
10/16/2018 14:11	12.4	95.1								
10/16/2018 14:14								0	0.007	
10/16/2018 14:15	12.2	77.9						0	0.007	
10/16/2018 14:15										42.43217;-76.49836
10/16/2018 14:16								0	0.007	
10/16/2018 14:17								0	0.009	
10/16/2018 14:18								0	0.007	
10/16/2018 14:19								0	0.007	
10/16/2018 14:20	12.2	104.3						0	0.007	42.43216;-76.49835
10/16/2018 14:21								0	0.007	
10/16/2018 14:22								0	0.02	
10/16/2018 14:23								0	0.033	
10/16/2018 14:24								0	0.018	
10/16/2018 14:25	12.2	73.9						0	0.024	42.43222;-76.49837
10/16/2018 14:26								0	0.025	
10/16/2018 14:27								0	0.021	
10/16/2018 14:27	12.2	117.4								
10/16/2018 14:28			0	0	0	0	0			
10/16/2018 14:28	12.2	76.9								
10/16/2018 14:29			0	0	0	0	0			
10/16/2018 14:30	12.3	111.3	0	0	0	0	0			42.43175;-76.49812
10/16/2018 14:31			0	0	0	0	0	0	0.008	
10/16/2018 14:32			0	0	0	0	0	0	0.011	
10/16/2018 14:33			0	0	0	0	0	0	0.01	
10/16/2018 14:34			0	0	0	0	0	0	0.009	
10/16/2018 14:35	12.2	74.9	0	0	0	0	0	0	0.007	42.43225;-76.49837
10/16/2018 14:36			0	0	0	0	0	0	0.007	
10/16/2018 14:37			0	0	0	0	0	0	0.007	
10/16/2018 14:38			0	0	0	0	0	0	0.007	
10/16/2018 14:39			0	0	0	0	0	0	0.01	
10/16/2018 14:40	12.2	88.1	0	0	0	0	0	0	0.007	42.43222;-76.49836
10/16/2018 14:41			0	0	0	0	0	0	0.007	
10/16/2018 14:42			0	0	0	0	0	0	0.008	
10/16/2018 14:43			0	0	0	0	0	0	0.008	
10/16/2018 14:44			0	0	0	0	0	0	0.007	
10/16/2018 14:45	12.2	72.9	0	0	0	0	0	0	0.007	42.43216;-76.49834
10/16/2018 14:46			0	0	0	0	0	0	0.008	
10/16/2018 14:47			0	0	0	0	0	0	0.007	
10/16/2018 14:48			0	0	0	0	0	0	0.007	
10/16/2018 14:49			0	0	0	0	0	0	0.007	
10/16/2018 14:50	12.2	94.1	0	0	0	0	0	0	0.008	42.43222;-76.49832
10/16/2018 14:51			0	0	0	0	0	0	0.007	
10/16/2018 14:52			0	0	0	0	0	0	0.007	
10/16/2018 14:53			0	0	0	0	0	0	0.007	
10/16/2018 14:54			0	0	0	0	0	0	0.008	
10/16/2018 14:55	12.2	72.9	0	0	0	0	0	0	0.007	42.43217;-76.49828
10/16/2018 14:56			0	0	0	0	0	0	0.007	
10/16/2018 14:57			0	0	0	0	0	0	0.007	
10/16/2018 14:58			0	0	0	0	0	0	0.007	
10/16/2018 14:59			0	0	0	0	0	0	0.008	
10/16/2018 15:00	12.2	80	0	0	0	0	0	0	0.008	42.43219;-76.49834
10/16/2018 15:01			0	0	0	0	0	0.001	0.019	
10/16/2018 15:02			0	0	0	0	0	0.001	0.011	
10/16/2018 15:03			0	0	0	0	0	0.001	0.015	
10/16/2018 15:04			0	0	0	0	0	0.001	0.034	
10/16/2018 15:05	12.2	81	0	0	0	0	0	0.001	0.013	42.43222;-76.49836
10/16/2018 15:06			0	0	0	0	0	0.001	0.012	
10/16/2018 15:07			0	0	0	0	0	0.001	0.016	
10/16/2018 15:08			0	0	0	0	0	0.001	0.017	
10/16/2018 15:09			0	0	0	0	0	0.001	0.014	
10/16/2018 15:10	12.2	80	0	0	0	0	0	0.001	0.026	42.43215;-76.49835
10/16/2018 15:11			0	0	0	0	0	0.001	0.015	
10/16/2018 15:12			0	0	0	0	0	0.001	0.009	
10/16/2018 15:13			0	0	0	0	0	0.001	0.011	
10/16/2018 15:14			0	0	0	0	0	0.001	0.014	
10/16/2018 15:15	12.2	85	0	0	0	0	0	0.001	0.016	42.43223;-76.4984
10/16/2018 15:16			0	0	0	0	0	0.001	0.01	
10/16/2018 15:17			0	0	0	0	0	0.001	0.008	
10/16/2018 15:18			0	0	0	0	0	0.001	0.008	
10/16/2018 15:19			0	0	0	0	0	0.001	0.008	
10/16/2018 15:20	12.2	74.9	0	0	0	0	0	0.001	0.007	42.43215;-76.49836
10/16/2018 15:21			0	0	0	0	0	0.001	0.009	
10/16/2018 15:22			0	0	0	0	0	0.001	0.009	
10/16/2018 15:23			0	0	0	0	0	0.001	0.007	
10/16/2018 15:24			0	0	0	0	0	0.001	0.012	
10/16/2018 15:25	12.2	73.9	0	0	0	0	0	0.001	0.007	42.43222;-76.4985
10/16/2018 15:26			0	0	0	0	0	0.001	0.007	
10/16/2018 15:27			0	0	0	0	0	0.001	0.007	
10/16/2018 15:28			0	0	0	0	0	0.001	0.007	
10/16/2018 15:29			0	0	0	0	0	0.001	0.007	
10/16/2018 15:30	12.2	72.9	0	0	0	0	0	0.001	0.007	42.4321;-76.49857
10/16/2018 15:31			0	0	0	0	0	0.001	0.007	
10/16/2018 15:32			0	0	0	0	0	0.001	0.007	
10/16/2018 15:33			0	0	0	0	0	0.001	0.008	
10/16/2018 15:34			0	0	0	0	0	0.001	0.007	
10/16/2018 15:35	12.2	73.9	0	0.002	0	0	0.002	0.001	0.007	42.43204;-76.49852
10/16/2018 15:36			0	0.002	0	0	0	0.001	0.013	
10/16/2018 15:37			0	0.002	0	0	0	0.001	0.017	
10/16/2018 15:38			0	0.002	0	0	0	0.001	0.008	
10/16/2018 15:39			0	0.002	0	0	0	0.001	0.007	
10/16/2018 15:40	12.2	114.4	0	0.002	0	0	0	0.001	0.016	42.43208;-76.49844
10/16/2018 15:41			0	0.002	0	0	0	0.001	0.022	
10/16/2018 15:42			0	0.002	0	0	0	0.002	0.025	
10/16/2018 15:43			0	0.002	0	0	0	0.002	0.015	
10/16/2018 15:44			0	0.002	0	0	0	0.002	0.022	
10/16/2018 15:45	12.2	111.3	0	0.002	0	0	0	0.002	0.018	42.4321;-76.49844
10/16/2018 15:46			0	0.002	0	0	0	0.002	0.04	
10/16/2018 15:47			0	0.002	0	0	0	0.002	0.009	
10/16/2018 15:48			0	0.002	0	0	0	0.002	0.007	
10/16/2018 15:49			0	0.002	0	0	0	0.002	0.007	
10/16/2018 15:50	12.2	115.4	0	0.003	0	0	0	0.002	0.007	42.43199;-76.49845
10/16/2018 15:51			0	0.003	0	0	0	0.002	0.007	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/16/2018 15:52			0	0.003	0	0	0	0.002	0.007	
10/16/2018 15:53			0	0.003	0	0	0	0.002	0.007	
10/16/2018 15:54			0	0.003	0	0	0	0.002	0.007	
10/16/2018 15:55	12.2	76.9	0	0.003	0	0	0	0.002	0.007	42.43195;-76.49845
10/16/2018 15:56			0	0.003	0	0	0	0.002	0.007	
10/16/2018 15:57			0	0.003	0	0	0	0.002	0.007	
10/16/2018 15:58			0	0.005	0	0	0	0.002	0.007	
10/16/2018 15:59			0	0.005	0	0	0.001	0.002	0.007	
10/16/2018 16:00	12.2	121.5	0	0.005	0	0	0.003	0.002	0.007	42.43196;-76.49838
10/16/2018 16:01			0	0.005	0	0	0	0.002	0.006	
10/16/2018 16:02			0	0.008	0	0	0	0.002	0.006	
10/16/2018 16:03			0	0.008	0	0	0	0.002	0.006	
10/16/2018 16:04			0	0.008	0	0	0	0.002	0.006	
10/16/2018 16:05	12.2	83	0	0.014	0	0	0	0.002	0.007	42.43195;-76.49855
10/16/2018 16:06			0	0.017	0	0	0.011	0.002	0.007	
10/16/2018 16:07			0	0.017	0	0	0.003	0.002	0.006	
10/16/2018 16:08			0	0.017	0	0	0.003	0.002	0.006	
10/16/2018 16:09			0	0.018	0	0	0	0.002	0.007	
10/16/2018 16:10	12.2	83	0	0.018	0.001	0	0.007	0.002	0.006	42.43183;-76.49855
10/16/2018 16:11			0	0.018	0.001	0	0.003	0.002	0.007	
10/16/2018 16:12			0	0.018	0.001	0	0.004	0.002	0.007	
10/16/2018 16:13			0	0.018	0.001	0	0.007	0.002	0.006	
10/16/2018 16:14			0	0.018	0.002	0	0.003	0.002	0.006	
10/16/2018 16:15	12.2	75.9	0	0.018	0.002	0	0	0.002	0.006	42.43155;-76.49866
10/16/2018 16:16			0	0.018	0.002	0	0.009	0.002	0.006	
10/16/2018 16:17			0	0.018	0.002	0	0.013	0.002	0.006	
10/16/2018 16:18			0	0.018	0.003	0	0	0.002	0.006	
10/16/2018 16:19			0	0.018	0.003	0	0.006	0.002	0.006	
10/16/2018 16:20	12.2	77.9	0	0.018	0.003	0	0.005	0.002	0.007	42.43139;-76.49877
10/16/2018 16:21			0	0.019	0.004	0	0.009	0.002	0.006	
10/16/2018 16:22			0	0.019	0.004	0	0.016	0.002	0.006	
10/16/2018 16:23			0	0.019	0.004	0	0.004	0.002	0.006	
10/16/2018 16:24			0	0.02	0.004	0	0.02	0.002	0.006	
10/16/2018 16:25	12.2	81	0	0.024	0.005	0	0.019	0.002	0.006	42.43117;-76.49878
10/16/2018 16:26			0	0.024	0.006	0	0.015	0.002	0.006	
10/16/2018 16:27			0	0.024	0.006	0	0.017	0.002	0.006	
10/16/2018 16:28			0	0.024	0.007	0	0.019	0.002	0.006	
10/16/2018 16:29			0	0.024	0.007	0	0.017	0.002	0.006	
10/16/2018 16:30	12.2	84	0	0.024	0.008	0	0.02	0.002	0.006	42.432;-76.4985
10/16/2018 16:31			0	0.024	0.008	0	0.014	0.002	0.006	
10/16/2018 16:32			0	0.024	0.009	0	0.01	0.002	0.006	
10/16/2018 16:33			0	0.027	0.01	0	0.001	0.002	0.006	
10/16/2018 16:34			0	0.027	0.01	0	0.018	0.002	0.006	
10/16/2018 16:35	12.2	76.9	0	0.027	0.011	0	0.019	0.002	0.006	42.43209;-76.4983
10/16/2018 16:36			0	0.031	0.012	0	0.018	0.002	0.006	
10/16/2018 16:37			0	0.031	0.012	0	0.013	0.002	0.006	
10/16/2018 16:38			0	0.031	0.013	0	0.018	0.002	0.006	
10/16/2018 16:39			0	0.031	0.014	0	0.013	0.002	0.006	
10/16/2018 16:40	12.2	73.9	0	0.037	0.015	0	0.019	0.002	0.006	42.43206;-76.4983
10/16/2018 16:41			0	0.037	0.015	0	0.026	0.002	0.006	
10/16/2018 16:42			0	0.037	0.016	0	0.027	0.002	0.006	
10/16/2018 16:43			0	0.037	0.017	0	0.026	0.002	0.006	
10/16/2018 16:44			0	0.061	0.018	0	0.031	0.003	0.007	
10/16/2018 16:45	12.2	77.9	0	0.061	0.019	0	0.016	0.003	0.007	42.43217;-76.49843
10/16/2018 16:46			0	0.061	0.019	0	0.024	0.003	0.007	
10/16/2018 16:47			0	0.061	0.02	0.001	0.025	0.003	0.006	
10/16/2018 16:48			0	0.061	0.021	0.001	0.013	0.003	0.006	
10/16/2018 16:49			0	0.073	0.022	0.001	0.025	0.003	0.01	
10/16/2018 16:50	12.2	95.1	0	0.073	0.023	0.001	0.03	0.003	0.012	42.43223;-76.49841
10/16/2018 16:51			0	0.073	0.023	0.001	0.029	0.003	0.016	
10/16/2018 16:52			0	0.073	0.024	0.001	0.027	0.003	0.006	
10/16/2018 16:53			0	0.073	0.024	0.001	0.023	0.003	0.015	
10/16/2018 16:54			0	0.073	0.025	0.001	0.028	0.003	0.013	
10/16/2018 16:55	12.2	97.2	0	0.073	0.025	0.001	0.034	0.003	0.01	42.43224;-76.49841
10/16/2018 16:56			0	0.073	0.026	0.001	0.038	0.003	0.006	
10/16/2018 16:57			0	0.073	0.026	0.001	0.025	0.003	0.011	
10/16/2018 16:58			0	0.073	0.027	0.001	0.025	0.003	0.01	
10/16/2018 16:59			0	0.073	0.027	0.001	0.028	0.003	0.011	
10/16/2018 17:00	12.2	85	0	0.073	0.027	0.001	0.019	0.003	0.012	42.43224;-76.49841
10/16/2018 17:01			0	0.073	0.028	0.001	0.039	0.003	0.007	
10/16/2018 17:02			0	0.073	0.029	0.001	0.019	0.003	0.008	
10/16/2018 17:03			0	0.073	0.029	0.002	0.033	0.003	0.007	
10/16/2018 17:04			0	0.073	0.029	0.002	0.033	0.003	0.02	
10/16/2018 17:05	12.2	90.1	0	0.073	0.03	0.002	0.013	0.003	0.01	42.43208;-76.49845
10/16/2018 17:06			0	0.073	0.03	0.002	0.041	0.003	0.008	
10/16/2018 17:07			0	0.073	0.03	0.002	0.039	0.003	0.007	
10/16/2018 17:08			0	0.073	0.031	0.002	0.027	0.003	0.007	
10/16/2018 17:09			0	0.073	0.031	0.002	0.033	0.003	0.006	
10/16/2018 17:10	12.2	73.9	0	0.073	0.031	0.002	0.027	0.003	0.006	42.43207;-76.49834
10/16/2018 17:11			0	0.073	0.031	0.002	0.03	0.003	0.006	
10/16/2018 17:12			0	0.073	0.031	0.002	0.028	0.003	0.007	
10/16/2018 17:13			0	0.073	0.031	0.002	0.035	0.003	0.006	
10/16/2018 17:14			0	0.073	0.031	0.002	0.037	0.003	0.01	
10/16/2018 17:15	12.2	115.4	0	0.073	0.031	0.002	0.037	0.003	0.013	42.43227;-76.49825
10/16/2018 17:16			0	0.073	0.031	0.002	0.037	0.003	0.014	
10/16/2018 17:17			0	0.073	0.032	0.002	0.039	0.003	0.011	
10/16/2018 17:18			0	0.073	0.032	0.003	0.031	0.003	0.007	
10/16/2018 17:19			0	0.073	0.032	0.003	0.033	0.003	0.009	
10/16/2018 17:20	12.2	74.9	0	0.073	0.032	0.003	0.032	0.003	0.009	42.43213;-76.49828
10/16/2018 17:21			0	0.073	0.032	0.003	0.037	0.003	0.007	
10/16/2018 17:22			0	0.073	0.032	0.003	0.037	0.003	0.007	
10/16/2018 17:23			0	0.073	0.032	0.003	0.021	0.003	0.007	
10/16/2018 17:24			0	0.073	0.032	0.003	0.047	0.003	0.008	
10/16/2018 17:25	12.2	73.9	0	0.073	0.033	0.003	0.027	0.003	0.008	42.43206;-76.49829
10/16/2018 17:26			0	0.073	0.033	0.003	0.042	0.003	0.006	
10/16/2018 17:27			0	0.073	0.033	0.003	0.04	0.003	0.006	
10/16/2018 17:28			0	0.073	0.034	0.003	0.039	0.003	0.006	
10/16/2018 17:29			0	0.073	0.034	0.003	0.044	0.003	0.007	
10/16/2018 17:30	12.2	80	0	0.073	0.034	0.003	0.027	0.003	0.006	42.43206;-76.49824
10/16/2018 17:31			0	0.073	0.035	0.003	0.032	0.003	0.007	
10/16/2018 17:32			0	0.073	0.035	0.004	0.051	0.003	0.01	
10/16/2018 17:33			0	0.073	0.035	0.004	0.037	0.003	0.006	
10/16/2018 17:34			0	0.073	0.036	0.004	0.051	0.003	0.007	
10/16/2018 17:35	12.2	73.9	0	0.126	0.039	0.004	0.091	0.003	0.009	42.43206;-76.49828
10/16/2018 17:36			0	0.126	0.042	0.004	0.057	0.003	0.012	
10/16/2018 17:37			0	0.126	0.044	0.004	0.059	0.003	0.01	
10/16/2018 17:38			0	0.126	0.045	0.004	0.044	0.003	0.011	
10/16/2018 17:39			0	0.126	0.046	0.004	0.045	0.004	0.008	
10/16/2018 17:40	12.2	74.9	0	0.126	0.047	0.004	0.044	0.004	0.006	42.43207;-76.49825

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/16/2018 17:41			0	0.126	0.047	0.005	0.04	0.004	0.006	
10/16/2018 17:42			0	0.126	0.047	0.005	0.04	0.004	0.007	
10/16/2018 17:43			0	0.126	0.047	0.005	0.039	0.004	0.006	
10/16/2018 17:44			0	0.126	0.047	0.005	0.04	0.004	0.007	
10/16/2018 17:45	12.2	75.9	0	0.126	0.047	0.005	0.041	0.004	0.007	42.43214;-76.49832
10/16/2018 17:46			0	0.126	0.047	0.005	0.026	0.004	0.007	
10/16/2018 17:47			0	0.126	0.047	0.005	0.044	0.004	0.007	
10/16/2018 17:48			0	0.126	0.047	0.005	0.035	0.004	0.007	
10/16/2018 17:49			0	0.126	0.046	0.005	0.04	0.004	0.007	
10/16/2018 17:50	12.2	82	0	0.126	0.043	0.005	0.036	0.004	0.007	42.43216;-76.49821
10/16/2018 17:51			0	0.126	0.04	0.005	0.032	0.004	0.007	
10/16/2018 17:52			0	0.126	0.038	0.005	0.036	0.004	0.007	
10/16/2018 17:53			0	0.126	0.037	0.005	0.035	0.004	0.007	
10/16/2018 17:54			0	0.126	0.036	0.006	0.033	0.004	0.007	
10/16/2018 17:55	12.1	73.9	0	0.126	0.036	0.006	0.039	0.004	0.007	42.43219;-76.49831
10/16/2018 17:56			0	0.126	0.036	0.006	0.044	0.004	0.007	
10/16/2018 17:57			0	0.126	0.036	0.006	0.038	0.004	0.007	
10/16/2018 17:58			0	0.126	0.036	0.006	0.051	0.004	0.007	
10/16/2018 17:59			0	0.126	0.036	0.006	0.048	0.004	0.007	
10/16/2018 18:00	12.1	73.9	0	0.126	0.037	0.006	0.064	0.004	0.007	42.43223;-76.49839
10/16/2018 18:01			0	0.126	0.038	0.006	0.062	0.004	0.008	
10/16/2018 18:02			0	0.126	0.039	0.006	0.054	0.004	0.008	
10/16/2018 18:03			0	0.126	0.04	0.006	0.047	0.004	0.007	
10/16/2018 18:04			0	0.126	0.041	0.006	0.058	0.004	0.008	
10/16/2018 18:05	12.1	74.9	0	0.126	0.042	0.007	0.065	0.004	0.007	42.43217;-76.49821
10/16/2018 18:06			0	0.126	0.044	0.007	0.063	0.004	0.007	
10/16/2018 18:07			0	0.126	0.046	0.007	0.061	0.004	0.007	
10/16/2018 18:08			0	0.126	0.048	0.007	0.075	0.004	0.008	
10/16/2018 18:09			0	0.126	0.051	0.007	0.069	0.004	0.007	
10/16/2018 18:10	12.1	76.9	0	0.126	0.053	0.007	0.086	0.004	0.007	42.43215;-76.49826
10/16/2018 18:11			0	0.126	0.057	0.007	0.084	0.004	0.007	
10/16/2018 18:12			0	0.126	0.06	0.008	0.095	0.004	0.007	
10/16/2018 18:13			0	0.126	0.064	0.008	0.099	0.004	0.007	
10/16/2018 18:14			0	0.126	0.067	0.008	0.093	0.004	0.007	
10/16/2018 18:15	12.1	74.9	0	0.126	0.071	0.008	0.097	0.004	0.008	42.43216;-76.49828
10/16/2018 18:16			0	0.126	0.074	0.008	0.108	0.004	0.007	
10/16/2018 18:17			0	0.126	0.077	0.009	0.117	0.004	0.007	
10/16/2018 18:18			0	0.128	0.082	0.009	0.124	0.004	0.007	
10/16/2018 18:19			0	0.128	0.086	0.009	0.122	0.004	0.007	
10/16/2018 18:20	12.1	75.9	0	0.128	0.09	0.009	0.115	0.004	0.007	42.43216;-76.49825
10/16/2018 18:21			0	0.128	0.094	0.01	0.111	0.004	0.007	
10/16/2018 18:22			0	0.128	0.098	0.01	0.123	0.004	0.008	
10/16/2018 18:23			0	0.128	0.101	0.01	0.105	0.004	0.008	
10/16/2018 18:24			0	0.128	0.104	0.01	0.107	0.004	0.008	
10/16/2018 18:25	12.1	94.1	0	0.128	0.107	0.011	0.113	0.004	0.008	42.43216;-76.49825
10/16/2018 18:26			0	0.128	0.108	0.011	0.105	0.004	0.008	
10/16/2018 18:27			0	0.128	0.109	0.011	0.11	0.004	0.007	
10/16/2018 18:28			0	0.128	0.11	0.011	0.111	0.004	0.007	
10/16/2018 18:29			0	0.128	0.111	0.012	0.116	0.004	0.007	
10/16/2018 18:30	12.1	97.2	0	0.128	0.112	0.012	0.111	0.004	0.007	42.43222;-76.49835
10/16/2018 18:31			0	0.128	0.113	0.012	0.118	0.004	0.007	
10/16/2018 18:32			0	0.128	0.114	0.012	0.116	0.004	0.007	
10/16/2018 18:33			0	0.128	0.114	0.013	0.119	0.004	0.008	
10/16/2018 18:34			0	0.128	0.114	0.013	0.12	0.004	0.007	
10/16/2018 18:35	12.1	77.9	0	0.13	0.114	0.013	0.125	0.004	0.008	42.43217;-76.49827
10/16/2018 18:36			0	0.132	0.115	0.013	0.126	0.004	0.006	
10/16/2018 18:37			0	0.133	0.115	0.014	0.118	0.004	0.007	
10/16/2018 18:38			0	0.134	0.116	0.014	0.131	0.004	0.007	
10/16/2018 18:39			0	0.15	0.117	0.014	0.147	0.004	0.006	
10/16/2018 18:40	12.1	79	0	0.16	0.119	0.014	0.153	0.004	0.007	42.43222;-76.49831
10/16/2018 18:41			0	0.16	0.122	0.015	0.155	0.004	0.007	
10/16/2018 18:42			0	0.162	0.125	0.015	0.156	0.004	0.006	
10/16/2018 18:43			0	0.164	0.129	0.015	0.158	0.004	0.007	
10/16/2018 18:44			0	0.168	0.132	0.016	0.168	0.004	0.007	
10/16/2018 18:45	12.1	74.9	0	0.171	0.135	0.016	0.164	0.004	0.007	42.4322;-76.49833
10/16/2018 18:46			0	0.176	0.139	0.016	0.166	0.005	0.007	
10/16/2018 18:47			0	0.199	0.142	0.017	0.172	0.005	0.008	
10/16/2018 18:48			0	0.199	0.145	0.017	0.162	0.005	0.008	
10/16/2018 18:49			0	0.238	0.149	0.017	0.182	0.005	0.007	
10/16/2018 18:50	12.1	73.9	0	0.238	0.154	0.018	0.198	0.005	0.036	42.43219;-76.49831
10/16/2018 18:51			0	0.326	0.158	0.018	0.218	0.005	0.026	
10/16/2018 18:52			0	0.326	0.164	0.019	0.184	0.005	0.019	
10/16/2018 18:53			0	0.326	0.167	0.019	0.178	0.005	0.008	
10/16/2018 18:54			0	0.326	0.171	0.019	0.176	0.005	0.007	
10/16/2018 18:55	12.1	73.9	0	0.326	0.174	0.02	0.195	0.005	0.008	42.43222;-76.49827
10/16/2018 18:56			0	0.326	0.176	0.02	0.194	0.005	0.009	
10/16/2018 18:57			0	0.346	0.179	0.021	0.227	0.005	0.012	
10/16/2018 18:58			0	0.346	0.182	0.021	0.168	0.005	0.009	
10/16/2018 18:59			0	0.346	0.184	0.021	0.236	0.005	0.01	
10/16/2018 19:00	12.1	74.9	0	0.346	0.186	0.022	0.21	0.005	0.01	42.43228;-76.49825
10/16/2018 19:01			0	0.346	0.188	0.022	0.221	0.005	0.008	
10/16/2018 19:02			0	0.346	0.19	0.023	0.19	0.005	0.012	
10/16/2018 19:03			0	0.346	0.192	0.023	0.183	0.005	0.008	
10/16/2018 19:04			0	0.346	0.193	0.023	0.226	0.005	0.006	
10/16/2018 19:05	12.1	81	0	0.346	0.194	0.024	0.241	0.005	0.012	42.43216;-76.49823
10/16/2018 19:06			0	0.346	0.196	0.024	0.188	0.005	0.007	
10/16/2018 19:07			0	0.346	0.194	0.025	0.19	0.005	0.007	
10/16/2018 19:08			0	0.346	0.195	0.025	0.189	0.005	0.007	
10/16/2018 19:09			0	0.346	0.196	0.026	0.184	0.005	0.008	
10/16/2018 19:10	12.1	83	0	0.346	0.196	0.026	0.181	0.005	0.007	42.43223;-76.49826
10/16/2018 19:11			0	0.346	0.195	0.026	0.187	0.005	0.007	
10/16/2018 19:12			0	0.346	0.195	0.027	0.188	0.005	0.008	
10/16/2018 19:13			0	0.346	0.196	0.027	0.205	0.005	0.009	
10/16/2018 19:14			0	0.346	0.198	0.028	0.169	0.005	0.007	
10/16/2018 19:15	12.1	85	0	0.346	0.197	0.028	0.176	0.005	0.007	42.43213;-76.49828
10/16/2018 19:16			0	0.346	0.196	0.028	0.162	0.005	0.006	
10/16/2018 19:17			0	0.346	0.194	0.029	0.16	0.005	0.006	
10/16/2018 19:18			0	0.346	0.191	0.029	0.159	0.005	0.007	
10/16/2018 19:19			0	0.346	0.19	0.029	0.164	0.005	0.008	
10/16/2018 19:20	12.1	77.9	0	0.346	0.186	0.03	0.148	0.005	0.008	42.43216;-76.49828
10/16/2018 19:21			0	0.346	0.183	0.03	0.199	0.005	0.028	
10/16/2018 19:22			0	0.346	0.183	0.03	0.166	0.005	0.067	
10/16/2018 19:23			0	0.346	0.181	0.031	0.151	0.005	0.017	
10/16/2018 19:24			0	0.346	0.179	0.031	0.137	0.005	0.007	
10/16/2018 19:25	12.1	75.9	0	0.346	0.176	0.031	0.137	0.005	0.006	42.43244;-76.49838
10/16/2018 19:26			0	0.346	0.173	0.032	0.137	0.005	0.005	
10/16/2018 19:27			0	0.346	0.169	0.032	0.136	0.005	0.006	
10/16/2018 19:28			0	0.346	0.164	0.032	0.159	0.006	0.2	
10/16/2018 19:29			0	0.346	0.161	0.033	0.145	0.006	0.061	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/16/2018 19:30	12.1	89.1	0	0.346	0.158	0.033	0.146	0.006	0.011	42.43216;-76.49829
10/16/2018 19:31			0	0.346	0.156	0.033	0.147	0.006	0.006	
10/16/2018 19:32			0	0.346	0.155	0.034	0.146	0.006	0.006	
10/16/2018 19:33			0	0.346	0.154	0.034	0.251	0.006	0.058	
10/16/2018 19:34			0	0.346	0.157	0.034	0.166	0.007	0.168	
10/16/2018 19:35	12.1	77.9	0	0.346	0.157	0.035	0.166	0.007	0.025	42.43232;-76.49835
10/16/2018 19:36			0	0.346	0.157	0.035	0.158	0.007	0.027	
10/16/2018 19:37			0	0.346	0.156	0.035	0.227	0.007	0.066	
10/16/2018 19:38			0	0.346	0.158	0.036	0.163	0.007	0.152	
10/16/2018 19:39			0	0.346	0.158	0.036	0.156	0.007	0.015	
10/16/2018 19:40	12.1	73.9	0	0.346	0.16	0.036	0.176	0.007	0.019	42.43211;-76.49828
10/16/2018 19:41			0	0.346	0.161	0.037	0.159	0.007	0.089	
10/16/2018 19:42			0	0.346	0.164	0.037	0.183	0.008	0.165	
10/16/2018 19:43			0	0.346	0.165	0.038	0.142	0.008	0.081	
10/16/2018 19:44			0	0.346	0.164	0.038	0.145	0.008	0.005	
10/16/2018 19:45	12.1	112.4	0	0.346	0.163	0.038	0.146	0.008	0.005	42.43214;-76.49826
10/16/2018 19:46			0	0.346	0.164	0.038	0.18	0.008	0.007	
10/16/2018 19:47			0	0.346	0.166	0.039	0.193	0.008	0.008	
10/16/2018 19:48			0	0.346	0.168	0.039	0.149	0.008	0.007	
10/16/2018 19:49			0	0.346	0.165	0.039	0.158	0.008	0.006	
10/16/2018 19:50	12.1	79	0	0.346	0.164	0.04	0.154	0.008	0.007	42.43223;-76.49831
10/16/2018 19:51			0	0.346	0.163	0.04	0.148	0.008	0.005	
10/16/2018 19:52			0	0.346	0.162	0.04	0.148	0.008	0.004	
10/16/2018 19:53			0	0.346	0.159	0.041	0.149	0.008	0.005	
10/16/2018 19:54			0	0.346	0.158	0.041	0.148	0.008	0.005	
10/16/2018 19:55	12.1	96.2	0	0.346	0.157	0.041	0.145	0.008	0.006	42.43222;-76.4983
10/16/2018 19:56			0	0.346	0.155	0.042	0.143	0.008	0.005	
10/16/2018 19:57			0	0.346	0.153	0.042	0.146	0.008	0.005	
10/16/2018 19:58			0	0.346	0.151	0.042	0.137	0.008	0.006	
10/16/2018 19:59			0	0.346	0.151	0.043	0.13	0.008	0.006	
10/16/2018 20:00	12.1	73.9	0	0.346	0.15	0.043	0.135	0.008	0.005	42.43222;-76.49833
10/16/2018 20:01			0	0.346	0.149	0.043	0.139	0.008	0.006	
10/16/2018 20:02			0	0.346	0.146	0.043	0.136	0.008	0.006	
10/16/2018 20:03			0	0.346	0.143	0.044	0.129	0.008	0.005	
10/16/2018 20:04			0	0.346	0.142	0.044	0.134	0.008	0.005	
10/16/2018 20:05	12.1	105.3	0	0.346	0.14	0.044	0.136	0.008	0.005	42.43219;-76.49834
10/16/2018 20:06			0	0.346	0.139	0.044	0.137	0.008	0.006	
10/16/2018 20:07			0	0.346	0.138	0.045	0.137	0.008	0.007	
10/16/2018 20:08			0	0.346	0.137	0.045	0.141	0.008	0.005	
10/16/2018 20:09			0	0.346	0.137	0.045	0.145	0.008	0.005	
10/16/2018 20:10	12.1	75.9	0	0.346	0.136	0.046	0.144	0.008	0.005	42.43217;-76.4983
10/16/2018 20:11			0	0.346	0.137	0.046	0.143	0.008	0.005	
10/16/2018 20:12			0	0.346	0.137	0.046	0.14	0.008	0.005	
10/16/2018 20:13			0	0.346	0.137	0.047	0.14	0.008	0.005	
10/16/2018 20:14			0	0.346	0.137	0.047	0.15	0.008	0.006	
10/16/2018 20:15	12.1	75.9	0	0.346	0.138	0.047	0.137	0.008	0.005	42.4322;-76.49834
10/16/2018 20:16			0	0.346	0.138	0.047	0.138	0.008	0.005	
10/16/2018 20:17			0	0.346	0.139	0.048	0.164	0.008	0.008	
10/16/2018 20:18			0	0.346	0.141	0.048	0.127	0.008	0.007	
10/16/2018 20:19			0	0.346	0.14	0.048	0.131	0.008	0.006	
10/16/2018 20:20	12.1	74.9	0	0.346	0.14	0.049	0.166	0.008	0.006	42.43221;-76.49836
10/16/2018 20:21			0	0.346	0.141	0.049	0.144	0.008	0.005	
10/16/2018 20:22			0	0.346	0.141	0.049	0.129	0.008	0.018	
10/16/2018 20:23			0	0.346	0.142	0.05	0.139	0.008	0.009	
10/16/2018 20:24			0	0.346	0.142	0.05	0.129	0.008	0.007	
10/16/2018 20:25	12.1	80	0	0.346	0.141	0.05	0.132	0.008	0.005	42.43218;-76.49828
10/16/2018 20:26			0	0.346	0.14	0.05	0.125	0.008	0.006	
10/16/2018 20:27			0	0.346	0.138	0.051	0.111	0.008	0.007	
10/16/2018 20:28			0	0.346	0.136	0.051	0.124	0.008	0.005	
10/16/2018 20:29			0	0.346	0.135	0.051	0.107	0.008	0.006	
10/16/2018 20:30	12.1	73.9	0	0.346	0.132	0.051	0.231	0.008	0.006	42.43216;-76.49826
10/16/2018 20:31			0	0.346	0.133	0.052	0.097	0.008	0.007	
10/16/2018 20:32			0	0.346	0.13	0.052	0.096	0.008	0.005	
10/16/2018 20:33			0	0.346	0.125	0.052	0.087	0.009	0.006	
10/16/2018 20:34			0	0.346	0.122	0.052	0.09	0.009	0.005	
10/16/2018 20:35	12.1	88.1	0	0.346	0.119	0.052	0.16	0.009	0.005	42.43216;-76.49831
10/16/2018 20:36			0	0.346	0.12	0.053	0.102	0.009	0.007	
10/16/2018 20:37			0	0.346	0.118	0.053	0.108	0.009	0.005	
10/16/2018 20:38			0	0.346	0.114	0.053	0.074	0.009	0.006	
10/16/2018 20:39			0	0.346	0.11	0.053	0.08	0.009	0.006	
10/16/2018 20:40	12.1	74.9	0	0.346	0.107	0.053	0.069	0.009	0.006	42.43217;-76.4983
10/16/2018 20:41			0	0.346	0.103	0.054	0.074	0.009	0.005	
10/16/2018 20:42			0	0.346	0.101	0.054	0.063	0.009	0.005	
10/16/2018 20:43			0	0.346	0.098	0.054	0.067	0.009	0.005	
10/16/2018 20:44			0	0.346	0.094	0.054	0.063	0.009	0.006	
10/16/2018 20:45	12.1	74.9	0	0.346	0.091	0.054	0.067	0.009	0.005	42.43217;-76.49827
10/16/2018 20:46			0	0.346	0.086	0.054	0.064	0.009	0.005	
10/16/2018 20:47			0	0.346	0.084	0.054	0.068	0.009	0.005	
10/16/2018 20:48			0	0.346	0.082	0.055	0.08	0.009	0.006	
10/16/2018 20:49			0	0.346	0.082	0.055	0.059	0.009	0.007	
10/16/2018 20:50	12	75.9	0	0.346	0.08	0.055	0.058	0.009	0.006	42.43213;-76.4983
10/16/2018 20:51			0	0.346	0.073	0.055	0.061	0.009	0.005	
10/16/2018 20:52			0	0.346	0.07	0.055	0.06	0.009	0.005	
10/16/2018 20:53			0	0.346	0.068	0.055	0.057	0.009	0.005	
10/16/2018 20:54			0	0.346	0.066	0.055	0.057	0.009	0.005	
10/16/2018 20:55	12	76.9	0	0.346	0.065	0.055	0.057	0.009	0.005	42.43208;-76.49822
10/16/2018 20:56			0	0.346	0.064	0.056	0.057	0.009	0.005	
10/16/2018 20:57			0	0.346	0.062	0.056	0.055	0.009	0.005	
10/16/2018 20:58			0	0.346	0.061	0.056	0.055	0.009	0.005	
10/16/2018 20:59			0	0.346	0.06	0.056	0.05	0.009	0.005	
10/16/2018 21:00	12	81	0	0.346	0.06	0.056	0.052	0.009	0.005	42.43209;-76.49823
10/16/2018 21:01			0	0.346	0.059	0.056	0.053	0.009	0.007	
10/16/2018 21:02			0	0.346	0.058	0.056	0.051	0.009	0.007	
10/16/2018 21:03			0	0.346	0.057	0.056	0.049	0.009	0.005	
10/16/2018 21:04			0	0.346	0.055	0.056	0.047	0.009	0.005	
10/16/2018 21:05	12	85	0	0.346	0.054	0.057	0.044	0.009	0.004	42.43215;-76.49827
10/16/2018 21:06			0	0.346	0.053	0.057	0.047	0.009	0.004	
10/16/2018 21:07			0	0.346	0.052	0.057	0.049	0.009	0.005	
10/16/2018 21:08			0	0.346	0.052	0.057	0.045	0.009	0.005	
10/16/2018 21:09			0	0.346	0.051	0.057	0.04	0.009	0.005	
10/16/2018 21:10	12	84	0	0.346	0.05	0.057	0.043	0.009	0.004	42.43208;-76.49827
10/16/2018 21:11			0	0.346	0.049	0.057	0.043	0.009	0.005	
10/16/2018 21:12			0	0.346	0.048	0.057	0.042	0.009	0.004	
10/16/2018 21:13			0	0.346	0.047	0.057	0.041	0.009	0.005	
10/16/2018 21:14			0	0.346	0.046	0.057	0.04	0.009	0.004	
10/16/2018 21:15	12	88.1	0	0.346	0.045	0.057	0.043	0.009	0.004	42.43215;-76.49837
10/16/2018 21:16			0	0.346	0.045	0.058	0.042	0.009	0.004	
10/16/2018 21:17			0	0.346	0.044	0.058	0.045	0.009	0.005	
10/16/2018 21:18			0	0.346	0.043	0.058	0.04	0.009	0.006	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/16/2018 21:19			0	0.346	0.043	0.058	0.041	0.009	0.004	
10/16/2018 21:20	12	107.3	0	0.346	0.042	0.058	0.04	0.009	0.005	42.43214;-76.49834
10/16/2018 21:21			0	0.346	0.042	0.058	0.04	0.009	0.006	
10/16/2018 21:22			0	0.346	0.041	0.058	0.039	0.009	0.004	
10/16/2018 21:23			0	0.346	0.041	0.058	0.042	0.009	0.004	
10/16/2018 21:24			0	0.346	0.04	0.058	0.036	0.009	0.005	
10/16/2018 21:25	12	85	0	0.346	0.04	0.058	0.033	0.009	0.005	42.43216;-76.49831
10/16/2018 21:26			0	0.346	0.039	0.058	0.033	0.009	0.005	
10/16/2018 21:27			0	0.346	0.039	0.058	0.032	0.009	0.004	
10/16/2018 21:28			0	0.346	0.038	0.058	0.033	0.009	0.004	
10/16/2018 21:29			0	0.346	0.038	0.059	0.029	0.009	0.005	
10/16/2018 21:30	12	85	0	0.346	0.037	0.059	0.032	0.009	0.004	42.43218;-76.49833
10/16/2018 21:31			0	0.346	0.036	0.059	0.03	0.009	0.005	
10/16/2018 21:32			0	0.346	0.035	0.059	0.029	0.009	0.005	
10/17/2018 11:39	13	93.1								
10/17/2018 11:40	13	88.1								
10/17/2018 11:40										42.43265;-76.49865
10/17/2018 11:41								0		
10/17/2018 11:42								0	0.047	
10/17/2018 11:43								0	0.012	
10/17/2018 11:44								0	0.013	
10/17/2018 11:45	12.9	74.9						0	0.012	
10/17/2018 11:45										42.43229;-76.49837
10/17/2018 11:46								0	0.012	
10/17/2018 11:47								0	0.012	
10/17/2018 11:48								0	0.012	
10/17/2018 11:49								0	0.012	
10/17/2018 11:50	12.8	69.8						0	0.012	
10/17/2018 11:50										42.43219;-76.49828
10/17/2018 11:51								0	0.013	
10/17/2018 11:52								0	0.012	
10/17/2018 11:53								0	0.013	
10/17/2018 11:54								0	0.013	
10/17/2018 11:55	12.8	76.9						0	0.013	
10/17/2018 11:55										42.43216;-76.49834
10/17/2018 11:56								0	0.012	
10/17/2018 11:57								0	0.012	
10/17/2018 11:58								0.001	0.012	
10/17/2018 11:59								0.001	0.013	
10/17/2018 12:00	12.8	80						0.001	0.014	
10/17/2018 12:00										42.43216;-76.49832
10/17/2018 12:01								0.001	0.013	
10/17/2018 12:02								0.001	0.015	
10/17/2018 12:03								0.001	0.013	
10/17/2018 12:04								0.001	0.013	
10/17/2018 12:05	12.8	69.8						0.001	0.013	
10/17/2018 12:05										42.432;-76.49831
10/17/2018 12:06								0.001	0.014	
10/17/2018 12:07								0.001	0.013	
10/17/2018 12:08								0.001	0.012	
10/17/2018 12:09								0.001	0.012	
10/17/2018 12:10	12.8	77.9						0.001	0.013	
10/17/2018 12:10										42.43216;-76.4983
10/17/2018 12:11								0.001	0.013	
10/17/2018 12:12								0.001	0.014	
10/17/2018 12:13								0.001	0.014	
10/17/2018 12:14								0.001	0.013	
10/17/2018 12:15	12.8	71.9						0.001	0.013	
10/17/2018 12:15										42.43215;-76.49825
10/17/2018 12:16								0.001	0.016	
10/17/2018 12:17								0.001	0.015	
10/17/2018 12:18								0.001	0.018	
10/17/2018 12:19								0.001	0.016	
10/17/2018 12:20	12.8	69.8						0.001	0.014	42.43218;-76.49829
10/17/2018 12:21								0.001	0.016	
10/17/2018 12:22								0.001	0.013	
10/17/2018 12:23								0.001	0.012	
10/17/2018 12:24								0.001	0.012	
10/17/2018 12:25	12.8	69.8						0.001	0.013	42.43214;-76.49829
10/17/2018 12:26								0.001	0.014	
10/17/2018 12:27								0.001	0.014	
10/17/2018 12:28								0.001	0.013	
10/17/2018 12:29								0.001	0.014	
10/17/2018 12:30	12.8	70.9						0.001	0.033	42.43218;-76.49834
10/17/2018 12:31								0.002	0.032	
10/17/2018 12:32								0.002	0.013	
10/17/2018 12:33								0.002	0.014	
10/17/2018 12:34								0.002	0.019	
10/17/2018 12:35	12.8	70.9						0.002	0.014	42.43208;-76.49825
10/17/2018 12:36								0.002	0.013	
10/17/2018 12:37								0.002	0.013	
10/17/2018 12:38								0.002	0.012	
10/17/2018 12:39								0.002	0.012	
10/17/2018 12:40	12.8	75.9						0.002	0.013	42.43211;-76.49831
10/17/2018 12:41								0.002	0.012	
10/17/2018 12:42								0.002	0.014	
10/17/2018 12:43								0.002	0.013	
10/17/2018 12:44								0.002	0.014	
10/17/2018 12:45	12.8	72.9						0.002	0.013	42.43209;-76.49833
10/17/2018 12:46								0.002	0.012	
10/17/2018 12:47								0.002	0.018	
10/17/2018 12:48								0.002	0.013	
10/17/2018 12:49								0.002	0.013	
10/17/2018 12:50	12.8	71.9						0.002	0.013	42.43218;-76.49833
10/17/2018 12:51								0.002	0.012	
10/17/2018 12:52								0.002	0.013	
10/17/2018 12:53								0.002	0.013	
10/17/2018 12:54								0.002	0.013	
10/17/2018 12:55	12.8	75.9						0.002	0.015	42.43204;-76.49835
10/17/2018 12:56								0.002	0.014	
10/17/2018 12:57								0.002	0.014	
10/17/2018 12:58								0.002	0.013	
10/17/2018 12:59								0.002	0.013	
10/17/2018 13:00	12.8	71.9						0.002	0.013	42.43209;-76.49827
10/17/2018 13:01								0.002	0.02	
10/17/2018 13:02								0.002	0.017	
10/17/2018 13:03								0.002	0.032	
10/17/2018 13:04								0.003	0.016	
10/17/2018 13:05	12.8	75.9						0.003	0.014	42.43208;-76.49825

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/17/2018 13:06								0.003	0.013	
10/17/2018 13:07								0.003	0.013	
10/17/2018 13:08								0.003	0.013	
10/17/2018 13:09								0.003	0.014	
10/17/2018 13:10	12.7	87						0.003	0.017	42.43203;-76.49836
10/17/2018 13:11								0.003	0.015	
10/17/2018 13:12								0.003	0.015	
10/17/2018 13:13								0.003	0.018	
10/17/2018 13:14								0.003	0.036	
10/17/2018 13:15	12.7	82						0.003	0.076	42.43201;-76.49837
10/17/2018 13:16								0.003	0.018	
10/17/2018 13:17								0.003	0.016	
10/17/2018 13:18								0.003	0.014	
10/17/2018 13:19								0.003	0.02	
10/17/2018 13:20	12.7	76.9						0.003	0.018	42.43205;-76.49837
10/17/2018 13:21								0.003	0.025	
10/17/2018 13:22								0.003	0.015	
10/17/2018 13:23								0.003	0.018	
10/17/2018 13:24								0.003	0.018	
10/17/2018 13:25	12.7	69.8						0.003	0.015	42.43202;-76.49836
10/17/2018 13:26								0.003	0.014	
10/17/2018 13:27								0.003	0.014	
10/17/2018 13:28								0.003	0.013	
10/17/2018 13:29								0.004	0.014	
10/17/2018 13:30	12.7	71.9						0.004	0.014	42.43211;-76.49839
10/17/2018 13:31								0.004	0.016	
10/17/2018 13:32								0.004	0.015	
10/17/2018 13:33								0.004	0.013	
10/17/2018 13:34								0.004	0.014	
10/17/2018 13:35	12.7	84						0.004	0.014	42.43183;-76.49826
10/17/2018 13:36								0.004	0.013	
10/17/2018 13:37								0.004	0.013	
10/17/2018 13:38								0.004	0.013	
10/17/2018 13:39								0.004	0.013	
10/17/2018 13:40	12.7	80						0.004	0.013	42.43192;-76.49863
10/17/2018 13:41								0.004	0.012	
10/17/2018 13:42								0.004	0.013	
10/17/2018 13:43								0.004	0.015	
10/17/2018 13:44								0.004	0.013	
10/17/2018 13:45	12.7	70.9						0.004	0.013	42.43208;-76.4984
10/17/2018 13:46								0.004	0.014	
10/17/2018 13:47								0.004	0.013	
10/17/2018 13:48								0.004	0.013	
10/17/2018 13:49								0.004	0.014	
10/17/2018 13:50	12.7	70.9						0.004	0.015	42.43208;-76.49843
10/17/2018 13:51								0.004	0.014	
10/17/2018 13:52								0.004	0.012	
10/17/2018 13:53								0.004	0.013	
10/17/2018 13:54								0.004	0.013	
10/17/2018 13:55	12.7	76.9						0.004	0.014	42.43204;-76.49843
10/17/2018 13:56								0.004	0.013	
10/17/2018 13:57								0.004	0.013	
10/17/2018 13:58								0.004	0.013	
10/17/2018 13:59								0.004	0.013	
10/17/2018 14:00	12.7	80						0.004	0.013	42.43222;-76.49835
10/17/2018 14:01								0.004	0.014	
10/17/2018 14:02								0.004	0.014	
10/17/2018 14:03								0.004	0.014	
10/17/2018 14:04								0.004	0.014	
10/17/2018 14:05	12.7	70.9						0.005	0.014	42.43212;-76.49836
10/17/2018 14:06								0.005	0.013	
10/17/2018 14:07								0.005	0.015	
10/17/2018 14:08								0.005	0.021	
10/17/2018 14:09								0.005	0.013	
10/17/2018 14:10	12.7	70.9						0.005	0.014	42.43217;-76.49838
10/17/2018 14:11								0.005	0.014	
10/17/2018 14:12								0.005	0.013	
10/17/2018 14:13								0.005	0.013	
10/17/2018 14:14								0.005	0.013	
10/17/2018 14:15	12.7	70.9						0.005	0.013	42.43221;-76.49841
10/17/2018 14:16								0.005	0.013	
10/17/2018 14:17								0.005	0.013	
10/17/2018 14:18								0.005	0.013	
10/17/2018 14:19								0.005	0.013	
10/17/2018 14:20	12.7	76.9						0.005	0.013	42.4321;-76.49836
10/17/2018 14:21								0.005	0.013	
10/17/2018 14:22								0.005	0.013	
10/17/2018 14:23								0.005	0.014	
10/17/2018 14:24								0.005	0.015	
10/17/2018 14:25	12.7	69.8						0.005	0.015	42.43203;-76.49834
10/17/2018 14:26								0.005	0.015	
10/17/2018 14:27								0.005	0.015	
10/17/2018 14:28								0.005	0.013	
10/17/2018 14:29								0.005	0.014	
10/17/2018 14:30	12.7	73.9						0.005	0.013	42.43206;-76.49831
10/17/2018 14:31								0.005	0.013	
10/17/2018 14:32								0.005	0.013	
10/17/2018 14:33								0.005	0.013	
10/17/2018 14:34								0.005	0.013	
10/17/2018 14:35	12.7	70.9						0.005	0.013	42.43205;-76.49833
10/17/2018 14:36								0.005	0.013	
10/17/2018 14:37								0.005	0.013	
10/17/2018 14:38								0.005	0.013	
10/17/2018 14:39								0.005	0.013	
10/17/2018 14:40	12.7	71.9						0.006	0.013	42.43208;-76.49834
10/17/2018 14:41								0.006	0.013	
10/17/2018 14:42								0.006	0.012	
10/17/2018 14:43								0.006	0.012	
10/17/2018 14:44								0.006	0.013	
10/17/2018 14:45	12.7	79						0.006	0.013	42.43214;-76.49833
10/17/2018 14:46								0.006	0.013	
10/17/2018 14:47								0.006	0.012	
10/17/2018 14:48								0.006	0.012	
10/17/2018 14:49								0.006	0.012	
10/17/2018 14:50	12.7	70.9						0.006	0.014	42.43213;-76.49834
10/17/2018 14:51								0.006	0.013	
10/17/2018 14:52								0.006	0.013	
10/17/2018 14:53								0.006	0.014	
10/17/2018 14:54								0.006	0.015	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/17/2018 14:55	12.7	69.8						0.006	0.013	42.43219;-76.49837
10/17/2018 14:56								0.006	0.014	
10/17/2018 14:57								0.006	0.014	
10/17/2018 14:58								0.006	0.012	
10/17/2018 14:59								0.006	0.013	
10/17/2018 15:00	12.7	71.9						0.006	0.012	42.43215;-76.49832
10/17/2018 15:01								0.006	0.014	
10/17/2018 15:02								0.006	0.013	
10/17/2018 15:03								0.006	0.013	
10/17/2018 15:04								0.006	0.012	
10/17/2018 15:05	12.7	69.8						0.006	0.012	42.43218;-76.49834
10/17/2018 15:06								0.006	0.012	
10/17/2018 15:07								0.006	0.012	
10/17/2018 15:08								0.006	0.012	
10/17/2018 15:09								0.006	0.029	
10/17/2018 15:10	12.7	71.9						0.006	0.015	42.43216;-76.49832
10/17/2018 15:11								0.006	0.02	
10/17/2018 15:12								0.006	0.027	
10/17/2018 15:13								0.007	0.024	
10/17/2018 15:14								0.007	0.013	
10/17/2018 15:15	12.7	69.8						0.007	0.013	42.43217;-76.49828
10/17/2018 15:16								0.007	0.012	
10/17/2018 15:17								0.007	0.012	
10/17/2018 15:18								0.007	0.012	
10/17/2018 15:19								0.007	0.012	
10/17/2018 15:20	12.7	74.9						0.007	0.012	42.4321;-76.49827
10/17/2018 15:21								0.007	0.012	
10/17/2018 15:22								0.007	0.013	
10/17/2018 15:23								0.007	0.013	
10/17/2018 15:24								0.007	0.013	
10/17/2018 15:25	12.6	73.9						0.007	0.012	42.43208;-76.4982
10/17/2018 15:26								0.007	0.013	
10/17/2018 15:27								0.007	0.013	
10/17/2018 15:28								0.007	0.013	
10/17/2018 15:29								0.007	0.013	
10/17/2018 15:30	12.6	84						0.007	0.012	42.4321;-76.49821
10/17/2018 15:31								0.007	0.013	
10/17/2018 15:32								0.007	0.013	
10/17/2018 15:33								0.007	0.013	
10/17/2018 15:34								0.007	0.013	
10/17/2018 15:35	12.6	79						0.007	0.013	42.4321;-76.49823
10/17/2018 15:36								0.007	0.014	
10/17/2018 15:37								0.007	0.014	
10/17/2018 15:38								0.007	0.015	
10/17/2018 15:39								0.007	0.015	
10/17/2018 15:40	12.6	72.9						0.007	0.016	42.43213;-76.49828
10/17/2018 15:41								0.007	0.015	
10/17/2018 15:42								0.007	0.016	
10/17/2018 15:43								0.007	0.014	
10/17/2018 15:44								0.007	0.015	
10/17/2018 15:45	12.6	69.8						0.007	0.014	42.43208;-76.49823
10/17/2018 15:46								0.007	0.016	
10/17/2018 15:47								0.007	0.014	
10/17/2018 15:48								0.007	0.014	
10/17/2018 15:49								0.008	0.015	
10/17/2018 15:50	12.6	79						0.008	0.016	42.43215;-76.49825
10/17/2018 15:51								0.008	0.014	
10/17/2018 15:52								0.008	0.013	
10/17/2018 15:53								0.008	0.014	
10/17/2018 15:54								0.008	0.014	
10/17/2018 15:55	12.6	81						0.008	0.013	42.43219;-76.49827
10/17/2018 15:56								0.008	0.014	
10/17/2018 15:57								0.008	0.014	
10/17/2018 15:58								0.008	0.014	
10/17/2018 15:59								0.008	0.015	
10/17/2018 16:00	12.6	81						0.008	0.014	42.43221;-76.49832
10/17/2018 16:01								0.008	0.014	
10/17/2018 16:02								0.008	0.014	
10/17/2018 16:03								0.008	0.014	
10/17/2018 16:04								0.008	0.014	
10/17/2018 16:05	12.6	77.9						0.008	0.017	42.43224;-76.49821
10/17/2018 16:06								0.008	0.017	
10/17/2018 16:07								0.008	0.015	
10/17/2018 16:08								0.008	0.015	
10/17/2018 16:09								0.008	0.014	
10/17/2018 16:10	12.6	76.9						0.008	0.014	42.43227;-76.49821
10/17/2018 16:11								0.008	0.014	
10/17/2018 16:12								0.008	0.015	
10/17/2018 16:13								0.008	0.014	
10/17/2018 16:14								0.008	0.015	
10/17/2018 16:15	12.6	79						0.008	0.014	42.43238;-76.49818
10/17/2018 16:16								0.008	0.014	
10/17/2018 16:17								0.008	0.014	
10/17/2018 16:18								0.008	0.014	
10/17/2018 16:19								0.008	0.014	
10/17/2018 16:20	12.6	72.9						0.008	0.014	42.43249;-76.49792
10/17/2018 16:21								0.008	0.014	
10/17/2018 16:22								0.008	0.014	
10/17/2018 16:23								0.009	0.015	
10/17/2018 16:24								0.009	0.015	
10/17/2018 16:25	12.6	75.9						0.009	0.015	42.43249;-76.49802
10/17/2018 16:26								0.009	0.015	
10/17/2018 16:27								0.009	0.015	
10/17/2018 16:28								0.009	0.015	
10/17/2018 16:29								0.009	0.015	
10/17/2018 16:30	12.6	81						0.009	0.015	42.43256;-76.49797
10/17/2018 16:31								0.009	0.016	
10/17/2018 16:32								0.009	0.016	
10/17/2018 16:33								0.009	0.016	
10/17/2018 16:34								0.009	0.016	
10/17/2018 16:35	12.6	71.9						0.009	0.016	42.43206;-76.49835
10/17/2018 16:36								0.009	0.016	
10/17/2018 16:37								0.009	0.016	
10/17/2018 16:38								0.009	0.016	
10/17/2018 16:39								0.009	0.016	
10/17/2018 16:40	12.6	72.9						0.009	0.015	42.4323;-76.49821
10/17/2018 16:41								0.009	0.015	
10/17/2018 16:42								0.009	0.015	
10/17/2018 16:43								0.009	0.016	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/17/2018 16:44								0.009	0.017	
10/17/2018 16:45	12.6	70.9						0.009	0.018	42.43225;-76.49835
10/17/2018 16:46								0.009	0.015	
10/17/2018 16:47								0.009	0.015	
10/17/2018 16:48								0.009	0.015	
10/17/2018 16:49								0.009	0.014	
10/17/2018 16:50	12.6	79						0.009	0.014	42.43232;-76.49817
10/17/2018 16:51								0.009	0.014	
10/17/2018 16:52								0.009	0.014	
10/17/2018 16:53								0.009	0.014	
10/17/2018 16:54								0.01	0.014	
10/17/2018 16:55	12.6	75.9						0.01	0.014	42.43219;-76.49834
10/17/2018 16:56								0.01	0.012	
10/17/2018 16:57								0.01	0.013	
10/17/2018 16:58								0.01	0.013	
10/17/2018 16:59								0.01	0.013	
10/17/2018 17:00	12.6	72.9						0.01	0.013	42.43234;-76.49827
10/17/2018 17:01								0.01	0.013	
10/17/2018 17:02								0.01	0.013	
10/17/2018 17:03								0.01	0.013	
10/17/2018 17:04								0.01	0.013	
10/17/2018 17:05	12.6	70.9						0.01	0.014	42.43218;-76.49822
10/17/2018 17:06								0.01	0.013	
10/17/2018 17:07								0.01	0.013	
10/17/2018 17:08								0.01	0.014	
10/17/2018 17:09								0.01	0.013	
10/17/2018 17:10	12.6	72.9						0.01	0.013	42.43211;-76.49821
10/17/2018 17:11								0.01	0.013	
10/17/2018 17:12								0.01	0.013	
10/17/2018 17:13								0.01	0.013	
10/17/2018 17:14								0.01	0.013	
10/17/2018 17:15	12.6	71.9						0.01	0.02	42.43214;-76.49821
10/17/2018 17:16								0.01	0.013	
10/17/2018 17:17								0.01	0.013	
10/17/2018 17:18								0.01	0.013	
10/17/2018 17:19								0.01	0.013	
10/17/2018 17:20	12.6	81						0.01	0.012	42.43213;-76.49821
10/17/2018 17:21								0.01	0.012	
10/17/2018 17:22								0.01	0.011	
10/17/2018 17:23								0.01	0.01	
10/17/2018 17:24								0.01	0.01	
10/17/2018 17:25	12.6	75.9						0.01	0.009	
10/17/2018 17:25										42.43209;-76.49815
10/17/2018 17:26								0.01	0.009	
10/17/2018 17:27								0.01	0.009	
10/17/2018 17:28								0.01	0.009	
10/17/2018 17:29								0.01	0.009	
10/17/2018 17:30	12.5	72.9						0.01	0.009	
10/17/2018 17:30										42.43208;-76.49817
10/17/2018 17:31								0.01	0.009	
10/17/2018 17:32								0.01	0.009	
10/17/2018 17:33								0.011	0.009	
10/17/2018 17:34								0.011	0.008	
10/17/2018 17:35	12.5	73.9						0.011	0.008	
10/17/2018 17:35										42.43214;-76.49828
10/17/2018 17:36								0.011	0.008	
10/17/2018 17:37								0.011	0.008	
10/17/2018 17:38								0.011	0.007	
10/17/2018 17:39								0.011	0.008	
10/17/2018 17:40	12.5	71.9						0.011	0.008	
10/17/2018 17:40										42.43221;-76.49837
10/17/2018 17:41								0.011	0.007	
10/17/2018 17:42								0.011	0.007	
10/17/2018 17:43								0.011	0.007	
10/17/2018 17:44								0.011	0.007	
10/17/2018 17:45	12.5	72.9						0.011	0.006	
10/17/2018 17:45										42.4321;-76.49827
10/17/2018 17:46								0.011	0.005	
10/17/2018 17:47								0.011	0.005	
10/17/2018 17:48								0.011	0.005	
10/17/2018 17:49								0.011	0.005	
10/17/2018 17:50	12.5	75.9						0.011	0.005	
10/17/2018 17:50										42.43212;-76.49828
10/17/2018 17:51								0.011	0.005	
10/17/2018 17:52								0.011	0.005	
10/17/2018 17:53								0.011	0.005	
10/17/2018 17:54								0.011	0.005	
10/17/2018 17:55	12.5	83						0.011	0.005	
10/17/2018 17:55										42.43211;-76.49828
10/17/2018 17:56								0.011	0.005	
10/17/2018 17:57								0.011	0.005	
10/17/2018 17:58								0.011	0.005	
10/17/2018 17:59								0.011	0.005	
10/17/2018 18:00	12.5	82						0.011	0.006	
10/17/2018 18:00										42.43213;-76.4983
10/17/2018 18:01								0.011	0.006	
10/17/2018 18:02								0.011	0.006	
10/17/2018 18:03								0.011	0.007	
10/17/2018 18:04								0.011	0.009	
10/17/2018 18:05	12.4	81						0.011	0.007	
10/17/2018 18:05										42.43213;-76.49828
10/17/2018 18:06								0.011	0.007	
10/17/2018 18:07								0.011	0.007	
10/17/2018 18:08								0.011	0.008	
10/17/2018 18:09								0.011	0.008	
10/17/2018 18:10	12.4	82						0.011	0.008	
10/17/2018 18:10										42.43214;-76.49827
10/17/2018 18:11								0.011	0.008	
10/17/2018 18:12								0.011	0.007	
10/17/2018 18:13								0.011	0.007	
10/17/2018 18:14								0.011	0.008	
10/17/2018 18:15	12.5	82						0.011	0.008	
10/17/2018 18:15										42.43214;-76.49831
10/17/2018 18:16								0.011	0.009	
10/17/2018 18:17								0.011	0.009	
10/17/2018 18:18								0.011	0.009	
10/17/2018 18:19								0.011	0.009	
10/17/2018 18:20	12.5	74.9						0.011	0.008	
10/17/2018 18:20										42.43209;-76.49824

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/17/2018 18:21								0.011	0.009	
10/17/2018 18:22								0.011	0.008	
10/17/2018 18:23								0.011	0.008	
10/17/2018 18:24								0.011	0.008	
10/17/2018 18:25	12.5	80						0.011	0.008	
10/17/2018 18:25										42.43215;-76.49833
10/17/2018 18:26								0.011	0.008	
10/17/2018 18:27								0.011	0.009	
10/17/2018 18:28								0.011	0.008	
10/17/2018 18:29								0.011	0.008	
10/17/2018 18:30	12.5	83						0.011	0.007	
10/17/2018 18:30										42.43216;-76.49828
10/17/2018 18:31								0.011	0.007	
10/17/2018 18:32								0.011	0.008	
10/17/2018 18:33								0.011	0.008	
10/17/2018 18:34								0.011	0.008	
10/17/2018 18:35	12.5	80						0.011	0.008	
10/17/2018 18:35										42.43208;-76.49826
10/17/2018 18:36								0.011	0.009	
10/17/2018 18:37								0.011	0.009	
10/17/2018 18:38								0.011	0.009	
10/17/2018 18:39								0.011	0.009	
10/17/2018 18:40	12.5	75.9						0.012	0.01	
10/17/2018 18:40										42.43209;-76.49822
10/17/2018 18:41								0.012	0.01	
10/17/2018 18:42								0.012	0.011	
10/17/2018 18:43								0.012	0.009	
10/17/2018 18:44								0.012	0.009	
10/17/2018 18:45	12.5	71.9						0.012	0.009	
10/17/2018 18:45										42.43224;-76.49828
10/17/2018 18:46								0.012	0.009	
10/17/2018 18:47								0.012	0.012	
10/17/2018 18:48								0.012	0.009	
10/17/2018 18:49								0.012	0.009	
10/17/2018 18:50	12.5	79						0.012	0.009	
10/17/2018 18:50										42.43204;-76.49818
10/17/2018 18:51								0.012	0.009	
10/17/2018 18:52								0.012	0.009	
10/17/2018 18:53								0.012	0.009	
10/17/2018 18:54								0.012	0.009	
10/17/2018 18:55	12.5	72.9						0.012	0.008	
10/17/2018 18:55										42.43216;-76.49825
10/17/2018 18:56								0.012	0.008	
10/17/2018 18:57								0.012	0.009	
10/17/2018 18:58								0.012	0.009	
10/17/2018 18:59								0.012	0.009	
10/17/2018 19:00	12.5	80						0.012	0.009	
10/17/2018 19:00										42.43208;-76.49827
10/17/2018 19:01								0.012	0.009	
10/17/2018 19:02								0.012	0.009	
10/17/2018 19:03								0.012	0.008	
10/17/2018 19:04								0.012	0.009	
10/17/2018 19:05	12.4	92.1						0.012	0.009	
10/17/2018 19:05										42.43204;-76.49823
10/17/2018 19:06								0.012	0.009	
10/17/2018 19:07								0.012	0.009	
10/17/2018 19:08								0.012	0.009	
10/17/2018 19:09								0.012	0.009	
10/17/2018 19:10	12.4	73.9						0.012	0.009	
10/17/2018 19:10										42.43239;-76.49835
10/17/2018 19:11								0.012	0.009	
10/17/2018 19:12								0.012	0.009	
10/17/2018 19:13								0.012	0.009	
10/17/2018 19:14								0.012	0.009	
10/17/2018 19:15	12.4	75.9						0.012	0.008	
10/17/2018 19:15										42.43238;-76.49834
10/17/2018 19:16								0.012	0.008	
10/17/2018 19:17								0.012	0.008	
10/17/2018 19:18								0.012	0.009	
10/17/2018 19:19								0.012	0.014	
10/17/2018 19:20	12.4	72.9						0.012	0.008	
10/17/2018 19:20										42.4326;-76.49835
10/17/2018 19:21								0.012	0.008	
10/17/2018 19:22								0.012	0.008	
10/17/2018 19:23								0.012	0.008	
10/17/2018 19:24								0.012	0.008	
10/17/2018 19:25	12.4	71.9						0.012	0.008	
10/17/2018 19:25										42.43224;-76.49829
10/17/2018 19:26								0.012	0.009	
10/17/2018 19:27								0.012	0.008	
10/17/2018 19:28								0.012	0.008	
10/17/2018 19:29								0.012	0.007	
10/17/2018 19:30	12.4	75.9						0.012	0.007	
10/17/2018 19:30										42.43226;-76.49834
10/17/2018 19:31								0.012	0.008	
10/17/2018 19:32								0.012	0.007	
10/17/2018 19:33								0.012	0.008	
10/17/2018 19:34								0.012	0.007	
10/17/2018 19:35	12.4	70.9						0.013	0.008	
10/17/2018 19:35										42.43216;-76.49824
10/17/2018 19:36								0.013	0.007	
10/17/2018 19:37								0.013	0.007	
10/17/2018 19:38								0.013	0.007	
10/17/2018 19:39								0.013	0.006	
10/17/2018 19:40	12.4	80						0.013	0.006	
10/17/2018 19:40										42.43218;-76.49828
10/17/2018 19:41								0.013	0.006	
10/17/2018 19:42								0.013	0.007	
10/17/2018 19:43								0.013	0.007	
10/17/2018 19:44								0.013	0.006	
10/17/2018 19:45	12.4	75.9						0.013	0.006	
10/17/2018 19:45										42.43213;-76.49822
10/17/2018 19:46								0.013	0.006	
10/17/2018 19:47								0.013	0.006	
10/17/2018 19:48								0.013	0.006	
10/17/2018 19:49								0.013	0.006	
10/17/2018 19:50	12.4	72.9						0.013	0.007	
10/17/2018 19:50										42.4322;-76.49825
10/17/2018 19:51								0.013	0.006	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/17/2018 19:52								0.013	0.006	
10/17/2018 19:53								0.013	0.006	
10/17/2018 19:54								0.013	0.006	
10/17/2018 19:55	12.4	72.9						0.013	0.006	
10/17/2018 19:55										42.43225;-76.49834
10/17/2018 19:56								0.013	0.006	
10/17/2018 19:57								0.013	0.006	
10/17/2018 19:58								0.013	0.006	
10/17/2018 19:59								0.013	0.006	
10/17/2018 20:00	12.4	76.9						0.013	0.007	
10/17/2018 20:00										42.43222;-76.49834
10/17/2018 20:01								0.013	0.006	
10/17/2018 20:02								0.013	0.006	
10/17/2018 20:03								0.013	0.006	
10/17/2018 20:04								0.013	0.006	
10/17/2018 20:05	12.4	74.9						0.013	0.006	
10/17/2018 20:05										42.43214;-76.49826
10/17/2018 20:06								0.013	0.006	
10/17/2018 20:07								0.013	0.006	
10/17/2018 20:08								0.013	0.006	
10/17/2018 20:09								0.013	0.006	
10/17/2018 20:10	12.4	84						0.013	0.006	
10/17/2018 20:10										42.4322;-76.49827
10/17/2018 20:11								0.013	0.006	
10/17/2018 20:12								0.013	0.006	
10/17/2018 20:13								0.013	0.006	
10/17/2018 20:14								0.013	0.006	
10/17/2018 20:15	12.4	77.9						0.013	0.006	
10/17/2018 20:15										42.43216;-76.49831
10/17/2018 20:16								0.013	0.006	
10/17/2018 20:17								0.013	0.006	
10/17/2018 20:18								0.013	0.005	
10/17/2018 20:19								0.013	0.005	
10/17/2018 20:20	12.4	72.9						0.013	0.005	
10/17/2018 20:20										42.43217;-76.49826
10/17/2018 20:21								0.013	0.006	
10/17/2018 20:22								0.013	0.006	
10/17/2018 20:23								0.013	0.006	
10/17/2018 20:24								0.013	0.006	
10/17/2018 20:25	12.4	72.9						0.013	0.006	
10/17/2018 20:25										42.43216;-76.49826
10/17/2018 20:26								0.013	0.006	
10/17/2018 20:27								0.013	0.006	
10/17/2018 20:28								0.013	0.006	
10/17/2018 20:29								0.013	0.006	
10/17/2018 20:30	12.4	73.9						0.013	0.007	
10/17/2018 20:30										42.43217;-76.49826
10/17/2018 20:31								0.013	0.006	
10/17/2018 20:32								0.013	0.006	
10/17/2018 20:33								0.013	0.005	
10/17/2018 20:34								0.013	0.006	
10/17/2018 20:35	12.4	72.9						0.013	0.005	
10/17/2018 20:35										42.43215;-76.49828
10/17/2018 20:36								0.013	0.005	
10/17/2018 20:37								0.013	0.005	
10/17/2018 20:38								0.013	0.005	
10/17/2018 20:39								0.013	0.005	
10/17/2018 20:40	12.4	82						0.013	0.005	
10/17/2018 20:40										42.43211;-76.49825
10/17/2018 20:41								0.013	0.005	
10/17/2018 20:42								0.013	0.005	
10/17/2018 20:43								0.013	0.005	
10/17/2018 20:44								0.013	0.005	
10/17/2018 20:45	12.4	82						0.013	0.004	
10/17/2018 20:45										42.4321;-76.49827
10/17/2018 20:46								0.013	0.004	
10/17/2018 20:47								0.013	0.004	
10/17/2018 20:48								0.013	0.004	
10/17/2018 20:49								0.013	0.004	
10/17/2018 20:50	12.3	84						0.013	0.004	
10/17/2018 20:50										42.43216;-76.49834
10/17/2018 20:51								0.013	0.004	
10/17/2018 20:52								0.013	0.004	
10/17/2018 20:53								0.013	0.004	
10/17/2018 20:54								0.013	0.004	
10/17/2018 20:55	12.3	72.9						0.013	0.004	
10/17/2018 20:55										42.43211;-76.49832
10/17/2018 20:56								0.013	0.004	
10/17/2018 20:57								0.013	0.004	
10/17/2018 20:58								0.013	0.004	
10/17/2018 20:59								0.013	0.006	
10/17/2018 21:00	12.3	85						0.013	0.007	
10/17/2018 21:00										42.43211;-76.49828
10/17/2018 21:01								0.013	0.006	
10/17/2018 21:02								0.013	0.005	
10/17/2018 21:03								0.013	0.006	
10/17/2018 21:04								0.013	0.005	
10/17/2018 21:05	12.3	83						0.013	0.005	
10/17/2018 21:05										42.43216;-76.49829
10/17/2018 21:06								0.013	0.005	
10/17/2018 21:07								0.013	0.005	
10/17/2018 21:08								0.013	0.005	
10/17/2018 21:09								0.013	0.005	
10/17/2018 21:10	12.3	79						0.013	0.004	
10/17/2018 21:10										42.43213;-76.49834
10/17/2018 21:11								0.013	0.005	
10/17/2018 21:12								0.013	0.005	
10/17/2018 21:13								0.013	0.005	
10/17/2018 21:14								0.013	0.006	
10/17/2018 21:15	12.3	72.9						0.013	0.007	
10/17/2018 21:15										42.43195;-76.49828
10/17/2018 21:16								0.013	0.005	
10/17/2018 21:17								0.013	0.005	
10/17/2018 21:18								0.013	0.005	
10/17/2018 21:19								0.013	0.004	
10/17/2018 21:20	12.3	72.9						0.013	0.004	
10/17/2018 21:20										42.43219;-76.49833
10/17/2018 21:21								0.013	0.004	
10/17/2018 21:22								0.013	0.004	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/17/2018 21:23								0.013	0.004	
10/17/2018 21:24								0.013	0.004	
10/17/2018 21:25	12.3	76.9						0.013	0.005	
10/17/2018 21:25										42.43211;-76.49828
10/17/2018 21:26								0.013	0.005	
10/17/2018 21:27								0.013	0.005	
10/17/2018 21:28								0.013	0.005	
10/17/2018 21:29								0.013	0.005	
10/18/2018 11:58	13	97.2								
10/18/2018 11:58										42.431576799999995;-76.5033456
10/18/2018 12:00	12.9	72.9	0	0	0	0	0			42.43214;-76.49831
10/18/2018 12:01			0	0	0	0	0	0	0.004	
10/18/2018 12:02			0	0	0	0	0	0	0.004	
10/18/2018 12:03			0	0	0	0	0	0	0.004	
10/18/2018 12:04			0	0	0	0	0	0	0.004	
10/18/2018 12:05	12.8	86	0	0	0	0	0	0	0.005	42.43213;-76.49828
10/18/2018 12:06			0	0	0	0	0	0	0.004	
10/18/2018 12:07			0	0	0	0	0	0	0.004	
10/18/2018 12:08			0	0	0	0	0	0	0.004	
10/18/2018 12:09			0	0	0	0	0	0	0.004	
10/18/2018 12:10	12.8	80	0	0	0	0	0	0	0.004	42.43205;-76.49834
10/18/2018 12:11			0	0	0	0	0	0	0.004	
10/18/2018 12:12			0	0	0	0	0	0	0.004	
10/18/2018 12:13			0	0	0	0	0	0	0.004	
10/18/2018 12:14			0	0	0	0	0	0	0.005	
10/18/2018 12:15	12.8	69.8	0	0	0	0	0	0	0.004	42.43215;-76.4984
10/18/2018 12:16			0	0	0	0	0	0	0.004	
10/18/2018 12:17			0	0	0	0	0	0	0.005	
10/18/2018 12:18			0	0	0	0	0	0	0.004	
10/18/2018 12:19			0	0	0	0	0	0	0.004	
10/18/2018 12:20	12.8	77.9	0	0	0	0	0	0	0.004	42.43195;-76.49833
10/18/2018 12:21			0	0	0	0	0	0	0.004	
10/18/2018 12:22			0	0	0	0	0	0	0.005	
10/18/2018 12:23			0	0	0	0	0	0	0.005	
10/18/2018 12:24			0	0	0	0	0	0	0.005	
10/18/2018 12:25	12.8	76.9	0	0	0	0	0	0	0.004	42.43208;-76.49829
10/18/2018 12:26			0	0	0	0	0	0	0.004	
10/18/2018 12:27			0	0	0	0	0	0	0.004	
10/18/2018 12:28			0	0.014	0	0	0	0	0.006	
10/18/2018 12:29			0	0.014	0	0	0	0	0.003	
10/18/2018 12:30	12.8	81	0	0.014	0	0	0.003	0	0.012	42.43213;-76.49841
10/18/2018 12:31			0	0.014	0	0	0	0	0.007	
10/18/2018 12:32			0	0.014	0	0	0	0	0.003	
10/18/2018 12:33			0	0.014	0	0	0	0	0.003	
10/18/2018 12:34			0	0.014	0	0	0	0	0.011	
10/18/2018 12:35	12.8	82	0	0.026	0	0	0	0	0.028	42.43211;-76.49843
10/18/2018 12:36			0	0.026	0	0	0	0	0.015	
10/18/2018 12:37			0	0.053	0	0	0	0	0.02	
10/18/2018 12:38			0	0.053	0	0	0	0	0.003	
10/18/2018 12:39			0	0.053	0	0	0	0	0.007	
10/18/2018 12:40	12.7	76.9	0	0.053	0	0	0.011	0.001	0.055	42.43213;-76.49837
10/18/2018 12:41			0	0.053	0	0	0	0.001	0.034	
10/18/2018 12:42			0	0.053	0	0	0	0.001	0.004	
10/18/2018 12:43			0	0.053	0	0	0	0.001	0.004	
10/18/2018 12:44			0	0.053	0	0	0	0.001	0.004	
10/18/2018 12:45	12.7	76.9	0	0.053	0	0	0	0.001	0.004	42.43211;-76.49835
10/18/2018 12:46			0	0.053	0	0	0	0.001	0.004	
10/18/2018 12:47			0	0.053	0	0	0	0.001	0.004	
10/18/2018 12:48			0	0.053	0	0	0	0.001	0.004	
10/18/2018 12:49			0	0.053	0	0	0	0.001	0.003	
10/18/2018 12:50	12.7	80	0	0.053	0	0	0	0.001	0.004	42.43197;-76.49834
10/18/2018 12:51			0	0.053	0	0	0	0.001	0.004	
10/18/2018 12:52			0	0.053	0	0	0	0.001	0.004	
10/18/2018 12:53			0	0.053	0	0	0	0.001	0.004	
10/18/2018 12:54			0	0.053	0	0	0	0.001	0.004	
10/18/2018 12:55	12.7	89.1	0	0.053	0	0	0	0.001	0.004	42.43198;-76.49835
10/18/2018 12:56			0	0.053	0	0	0	0.001	0.004	
10/18/2018 12:57			0	0.053	0	0	0	0.001	0.009	
10/18/2018 12:58			0	0.053	0	0	0	0.001	0.004	
10/18/2018 12:59			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:00	12.7	71.9	0	0.053	0	0	0	0.001	0.004	42.43209;-76.49845
10/18/2018 13:01			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:02			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:03			0	0.053	0	0	0	0.001	0.003	
10/18/2018 13:04			0	0.053	0	0	0	0.001	0.005	
10/18/2018 13:05	12.7	70.9	0	0.053	0	0	0	0.001	0.005	42.43201;-76.49841
10/18/2018 13:06			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:07			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:08			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:09			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:10	12.7	95.1	0	0.053	0	0	0	0.001	0.005	42.43191;-76.49835
10/18/2018 13:11			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:12			0	0.053	0	0	0	0.001	0.003	
10/18/2018 13:13			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:14			0	0.053	0	0	0	0.001	0.003	
10/18/2018 13:15	12.7	82	0	0.053	0	0	0	0.001	0.004	42.43183;-76.49838
10/18/2018 13:16			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:17			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:18			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:19			0	0.053	0	0	0	0.001	0.005	
10/18/2018 13:20	12.7	74.9	0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:20										42.43203;-76.49857
10/18/2018 13:21			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:22			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:23			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:24			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:25	12.7	77.9	0	0.053	0	0	0	0.001	0.006	
10/18/2018 13:25										42.43219;-76.49854
10/18/2018 13:26			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:27			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:28			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:29			0	0.053	0	0	0	0.001	0.005	
10/18/2018 13:30	12.7	88.1	0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:30										42.4321;-76.49856
10/18/2018 13:31			0	0.053	0	0	0	0.001	0.004	
10/18/2018 13:32			0	0.053	0	0	0.001	0.001	0.004	
10/18/2018 13:33			0	0.053	0	0	0	0.001	0.003	
10/18/2018 13:34			0	0.053	0	0	0.002	0.001	0.003	
10/18/2018 13:35	12.7	71.9	0	0.053	0	0	0	0.001	0.003	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/18/2018 13:35										42.432;-76.49851
10/18/2018 13:36			0	0.053	0	0	0	0.001	0.005	
10/18/2018 13:37			0	0.053	0	0	0.004	0.001	0.004	
10/18/2018 13:38			0	0.053	0	0	0.001	0.001	0.003	
10/18/2018 13:39			0	0.053	0	0	0.002	0.001	0.004	
10/18/2018 13:40	12.7	80	0	0.053	0	0	0.007	0.001	0.004	
10/18/2018 13:40										42.43201;-76.49852
10/18/2018 13:41			0	0.053	0.001	0	0	0.001	0.004	
10/18/2018 13:42			0	0.053	0.001	0	0.007	0.001	0.003	
10/18/2018 13:43			0	0.053	0.001	0	0.014	0.001	0.003	
10/18/2018 13:44			0	0.053	0.002	0	0.002	0.001	0.003	
10/18/2018 13:45	12.7	70.9	0	0.053	0.002	0	0.007	0.001	0.003	
10/18/2018 13:45										42.43213;-76.49847
10/18/2018 13:46			0	0.053	0.002	0	0.008	0.001	0.003	
10/18/2018 13:47			0	0.053	0.003	0	0.006	0.001	0.003	
10/18/2018 13:48			0	0.053	0.003	0	0.007	0.001	0.003	
10/18/2018 13:49			0	0.053	0.003	0	0.005	0.001	0.004	
10/18/2018 13:50	12.7	71.9	0	0.053	0.003	0	0.003	0.001	0.003	
10/18/2018 13:50										42.43202;-76.4985
10/18/2018 13:51			0	0.053	0.003	0	0.009	0.001	0.003	
10/18/2018 13:52			0	0.053	0.003	0	0.006	0.001	0.004	
10/18/2018 13:53			0	0.053	0.003	0	0.005	0.001	0.004	
10/18/2018 13:54			0	0.053	0.003	0	0.005	0.001	0.004	
10/18/2018 13:55	12.7	72.9	0	0.053	0.003	0	0.007	0.001	0.004	
10/18/2018 13:55										42.4321;-76.49859
10/18/2018 13:56			0	0.053	0.003	0	0	0.001	0.004	
10/18/2018 13:57			0	0.053	0.003	0	0.008	0.001	0.003	
10/18/2018 13:58			0	0.053	0.003	0	0.006	0.001	0.003	
10/18/2018 13:59			0	0.053	0.003	0	0.008	0.001	0.003	
10/18/2018 14:00	12.7	72.9	0	0.053	0.003	0	0.011	0.001	0.003	42.43208;-76.4985
10/18/2018 14:01			0	0.053	0.004	0	0.008	0.001	0.003	
10/18/2018 14:02			0	0.053	0.004	0	0.009	0.001	0.003	
10/18/2018 14:03			0	0.053	0.004	0	0.009	0.001	0.003	
10/18/2018 14:04			0	0.053	0.004	0	0.011	0.001	0.003	
10/18/2018 14:05	12.7	72.9	0	0.053	0.005	0	0.013	0.001	0.003	42.43204;-76.49854
10/18/2018 14:06			0	0.053	0.005	0	0.002	0.001	0.003	
10/18/2018 14:07			0	0.053	0.005	0	0.011	0.001	0.003	
10/18/2018 14:08			0	0.053	0.006	0	0.014	0.001	0.003	
10/18/2018 14:09			0	0.053	0.007	0	0.016	0.001	0.003	
10/18/2018 14:10	12.7	70.9	0	0.053	0.007	0	0.012	0.001	0.003	42.43197;-76.49844
10/18/2018 14:11			0	0.053	0.008	0	0.01	0.001	0.003	
10/18/2018 14:12			0	0.053	0.008	0	0.003	0.001	0.003	
10/18/2018 14:13			0	0.053	0.009	0	0.009	0.001	0.003	
10/18/2018 14:14			0	0.053	0.009	0	0.014	0.001	0.003	
10/18/2018 14:15	12.7	82	0	0.053	0.009	0	0.012	0.001	0.003	42.43207;-76.4984
10/18/2018 14:16			0	0.053	0.01	0	0.015	0.001	0.003	
10/18/2018 14:17			0	0.053	0.01	0	0.01	0.001	0.003	
10/18/2018 14:18			0	0.053	0.01	0	0.006	0.001	0.003	
10/18/2018 14:19			0	0.053	0.011	0	0.006	0.001	0.003	
10/18/2018 14:20	12.6	75.9	0	0.053	0.01	0	0.008	0.001	0.003	42.43198;-76.49838
10/18/2018 14:21			0	0.053	0.01	0	0.014	0.001	0.003	
10/18/2018 14:22			0	0.053	0.011	0	0.008	0.001	0.003	
10/18/2018 14:23			0	0.053	0.011	0	0.01	0.001	0.003	
10/18/2018 14:24			0	0.053	0.011	0	0.013	0.001	0.003	
10/18/2018 14:25	12.6	82	0	0.053	0.01	0	0.012	0.001	0.003	42.43208;-76.49844
10/18/2018 14:26			0	0.053	0.01	0	0.007	0.001	0.003	
10/18/2018 14:27			0	0.053	0.01	0	0.006	0.001	0.003	
10/18/2018 14:28			0	0.053	0.01	0	0.012	0.001	0.003	
10/18/2018 14:29			0	0.053	0.01	0	0.025	0.001	0.004	
10/18/2018 14:30	12.6	77.9	0	0.053	0.01	0	0.013	0.001	0.004	42.43207;-76.49843
10/18/2018 14:31			0	0.053	0.01	0	0.008	0.002	0.004	
10/18/2018 14:32			0	0.053	0.01	0	0.014	0.002	0.004	
10/18/2018 14:33			0	0.053	0.01	0	0.008	0.002	0.003	
10/18/2018 14:34			0	0.053	0.01	0	0.014	0.002	0.003	
10/18/2018 14:35	12.6	72.9	0	0.053	0.01	0	0.017	0.002	0.004	42.43208;-76.49844
10/18/2018 14:36			0	0.053	0.01	0.001	0.013	0.002	0.004	
10/18/2018 14:37			0	0.053	0.011	0.001	0.012	0.002	0.004	
10/18/2018 14:38			0	0.053	0.011	0.001	0.009	0.002	0.004	
10/18/2018 14:39			0	0.053	0.011	0.001	0.013	0.002	0.003	
10/18/2018 14:40	12.6	71.9	0	0.053	0.011	0.001	0.012	0.002	0.003	42.43211;-76.49845
10/18/2018 14:41			0	0.053	0.011	0.001	0.014	0.002	0.003	
10/18/2018 14:42			0	0.053	0.011	0.001	0.014	0.002	0.003	
10/18/2018 14:43			0	0.053	0.012	0.001	0.013	0.002	0.004	
10/18/2018 14:44			0	0.053	0.011	0.001	0.014	0.002	0.003	
10/18/2018 14:45	12.6	77.9	0	0.053	0.011	0.001	0.004	0.002	0.003	42.4321;-76.49844
10/18/2018 14:46			0	0.053	0.011	0.001	0.002	0.002	0.005	
10/18/2018 14:47			0	0.053	0.011	0.001	0.01	0.002	0.004	
10/18/2018 14:48			0	0.053	0.011	0.001	0.012	0.002	0.003	
10/18/2018 14:49			0	0.053	0.011	0.001	0.012	0.002	0.003	
10/18/2018 14:50	12.6	82	0	0.053	0.011	0.001	0.015	0.002	0.003	42.43211;-76.49849
10/18/2018 14:51			0	0.053	0.011	0.001	0.008	0.002	0.004	
10/18/2018 14:52			0	0.053	0.01	0.001	0.018	0.002	0.003	
10/18/2018 14:53			0	0.053	0.01	0.001	0.017	0.002	0.003	
10/18/2018 14:54			0	0.053	0.011	0.001	0.017	0.002	0.003	
10/18/2018 14:55	12.6	77.9	0	0.053	0.012	0.001	0.005	0.002	0.004	42.4321;-76.49845
10/18/2018 14:56			0	0.053	0.012	0.001	0.01	0.002	0.003	
10/18/2018 14:57			0	0.053	0.012	0.001	0.02	0.002	0.004	
10/18/2018 14:58			0	0.068	0.012	0.001	0.031	0.002	0.007	
10/18/2018 14:59			0	0.068	0.013	0.001	0.02	0.002	0.005	
10/18/2018 15:00	12.6	74.9	0	0.068	0.014	0.001	0.02	0.002	0.006	42.43207;-76.49844
10/18/2018 15:01			0	0.166	0.015	0.001	0.159	0.002	0.004	
10/18/2018 15:02			0	0.166	0.018	0.001	0.069	0.002	0.021	
10/18/2018 15:03			0	0.166	0.02	0.001	0.019	0.002	0.007	
10/18/2018 15:04			0	0.166	0.021	0.001	0.011	0.002	0.004	
10/18/2018 15:05	12.6	72.9	0	0.166	0.021	0.001	0.039	0.002	0.004	42.43215;-76.49853
10/18/2018 15:06			0	0.166	0.022	0.002	0.04	0.002	0.011	
10/18/2018 15:07			0	0.166	0.023	0.002	0.005	0.002	0.008	
10/18/2018 15:08			0	0.166	0.024	0.002	0.069	0.002	0.018	
10/18/2018 15:09			0	0.166	0.026	0.002	0.02	0.002	0.017	
10/18/2018 15:10	12.6	95.1	0	0.166	0.026	0.002	0.022	0.002	0.004	42.43204;-76.4983
10/18/2018 15:11			0	0.166	0.027	0.002	0.01	0.002	0.004	
10/18/2018 15:12			0	0.166	0.027	0.002	0.023	0.002	0.003	
10/18/2018 15:13			0	0.166	0.027	0.002	0.025	0.002	0.003	
10/18/2018 15:14			0	0.166	0.027	0.002	0.02	0.002	0.004	
10/18/2018 15:15	12.6	81	0	0.166	0.026	0.002	0.018	0.002	0.003	42.43208;-76.49835
10/18/2018 15:16			0	0.166	0.027	0.002	0.065	0.002	0.003	
10/18/2018 15:17			0	0.166	0.025	0.002	0.022	0.002	0.006	
10/18/2018 15:18			0	0.166	0.024	0.002	0.023	0.002	0.003	
10/18/2018 15:19			0	0.166	0.025	0.002	0.011	0.002	0.003	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/18/2018 15:20	12.6	71.9	0	0.166	0.025	0.002	0.025	0.002	0.003	42.43218;-76.49841
10/18/2018 15:21			0	0.166	0.025	0.002	0.083	0.002	0.006	
10/18/2018 15:22			0	0.166	0.026	0.002	0.017	0.002	0.004	
10/18/2018 15:23			0	0.166	0.026	0.003	0.032	0.002	0.003	
10/18/2018 15:24			0	0.166	0.024	0.003	0.019	0.002	0.004	
10/18/2018 15:25	12.6	72.9	0	0.166	0.024	0.003	0.021	0.002	0.003	42.43215;-76.49845
10/18/2018 15:26			0	0.166	0.024	0.003	0.016	0.002	0.004	
10/18/2018 15:27			0	0.166	0.024	0.003	0.017	0.002	0.003	
10/18/2018 15:28			0	0.166	0.024	0.003	0.01	0.002	0.003	
10/18/2018 15:29			0	0.166	0.023	0.003	0.011	0.002	0.003	
10/18/2018 15:30	12.6	72.9	0	0.166	0.023	0.003	0.018	0.002	0.004	42.43213;-76.49834
10/18/2018 15:31			0	0.166	0.022	0.003	0.016	0.002	0.003	
10/18/2018 15:32			0	0.166	0.02	0.003	0.016	0.002	0.003	
10/18/2018 15:33			0	0.166	0.02	0.003	0.022	0.002	0.003	
10/18/2018 15:34			0	0.166	0.02	0.003	0.017	0.002	0.004	
10/18/2018 15:35	12.6	71.9	0	0.166	0.019	0.003	0.02	0.002	0.004	42.43216;-76.49845
10/18/2018 15:36			0	0.166	0.018	0.003	0.016	0.002	0.004	
10/18/2018 15:37			0	0.166	0.017	0.003	0.02	0.002	0.004	
10/18/2018 15:38			0	0.166	0.017	0.003	0.02	0.002	0.004	
10/18/2018 15:39			0	0.166	0.016	0.003	0.02	0.002	0.004	
10/18/2018 15:40	12.6	89.1	0	0.166	0.016	0.003	0.024	0.002	0.004	42.43214;-76.49837
10/18/2018 15:41			0	0.166	0.016	0.003	0.005	0.002	0.006	
10/18/2018 15:42			0	0.166	0.016	0.003	0.007	0.002	0.005	
10/18/2018 15:43			0	0.166	0.016	0.003	0.02	0.002	0.009	
10/18/2018 15:44			0	0.166	0.016	0.003	0.02	0.002	0.005	
10/18/2018 15:45	12.5	72.9	0	0.166	0.017	0.003	0.015	0.002	0.004	42.4321;-76.49843
10/18/2018 15:46			0	0.166	0.017	0.003	0.021	0.002	0.01	
10/18/2018 15:47			0	0.166	0.017	0.003	0.021	0.002	0.011	
10/18/2018 15:48			0	0.166	0.017	0.003	0.021	0.002	0.007	
10/18/2018 15:49			0	0.166	0.017	0.003	0.019	0.002	0.004	
10/18/2018 15:50	12.5	82	0	0.166	0.018	0.003	0.019	0.002	0.004	42.43209;-76.49845
10/18/2018 15:51			0	0.166	0.017	0.004	0.025	0.002	0.004	
10/18/2018 15:52			0	0.166	0.018	0.004	0.03	0.002	0.004	
10/18/2018 15:53			0	0.166	0.018	0.004	0.024	0.002	0.005	
10/18/2018 15:54			0	0.166	0.02	0.004	0.063	0.002	0.005	
10/18/2018 15:55	12.6	76.9	0	0.166	0.022	0.004	0.025	0.002	0.005	42.43297;-76.49825
10/18/2018 15:56			0	0.166	0.022	0.004	0.019	0.002	0.004	
10/18/2018 15:57			0	0.166	0.023	0.004	0.02	0.002	0.004	
10/18/2018 15:58			0	0.166	0.023	0.004	0.021	0.002	0.004	
10/18/2018 15:59			0	0.166	0.023	0.004	0.025	0.002	0.004	
10/18/2018 16:00	12.5	77.9	0	0.166	0.023	0.004	0.02	0.002	0.006	42.43219;-76.49854
10/18/2018 16:01			0	0.166	0.024	0.004	0.021	0.002	0.016	
10/18/2018 16:02			0	0.166	0.024	0.004	0.021	0.002	0.005	
10/18/2018 16:03			0	0.166	0.024	0.004	0.02	0.002	0.005	
10/18/2018 16:04			0	0.166	0.024	0.004	0.027	0.002	0.011	
10/18/2018 16:05	12.5	85	0	0.166	0.023	0.004	0.021	0.002	0.009	42.43225;-76.49837
10/18/2018 16:06			0	0.166	0.024	0.004	0.018	0.003	0.007	
10/18/2018 16:07			0	0.166	0.023	0.004	0.019	0.003	0.005	
10/18/2018 16:08			0	0.166	0.023	0.004	0.025	0.003	0.006	
10/18/2018 16:09			0	0.166	0.022	0.004	0.031	0.003	0.01	
10/18/2018 16:10	12.5	90.1	0	0.166	0.02	0.004	0.023	0.003	0.044	42.43219;-76.49837
10/18/2018 16:11			0	0.166	0.02	0.005	0.028	0.003	0.032	
10/18/2018 16:12			0	0.166	0.02	0.005	0.018	0.003	0.021	
10/18/2018 16:13			0	0.166	0.02	0.005	0.02	0.003	0.011	
10/18/2018 16:14			0	0.166	0.02	0.005	0.022	0.003	0.012	
10/18/2018 16:15	12.5	91.1	0	0.166	0.02	0.005	0.02	0.003	0.014	42.43238;-76.49825
10/18/2018 16:16			0	0.166	0.02	0.005	0.024	0.003	0.012	
10/18/2018 16:17			0	0.166	0.02	0.005	0.023	0.003	0.005	
10/18/2018 16:18			0	0.166	0.02	0.005	0.022	0.003	0.005	
10/18/2018 16:19			0	0.166	0.02	0.005	0.017	0.003	0.005	
10/18/2018 16:20	12.5	80	0	0.166	0.02	0.005	0.031	0.003	0.008	42.43226;-76.49833
10/18/2018 16:21			0	0.166	0.021	0.005	0.026	0.003	0.01	
10/18/2018 16:22			0	0.166	0.021	0.005	0.025	0.003	0.014	
10/18/2018 16:23			0	0.166	0.021	0.005	0.022	0.003	0.012	
10/18/2018 16:24			0	0.166	0.021	0.005	0.023	0.003	0.004	
10/18/2018 16:25	12.5	73.9	0	0.166	0.021	0.005	0.024	0.003	0.004	42.43201;-76.49843
10/18/2018 16:26			0	0.166	0.021	0.005	0.021	0.003	0.004	
10/18/2018 16:27			0	0.166	0.021	0.005	0.023	0.003	0.004	
10/18/2018 16:28			0	0.166	0.021	0.005	0.029	0.003	0.004	
10/18/2018 16:29			0	0.166	0.021	0.005	0.02	0.003	0.004	
10/18/2018 16:30	12.5	72.9	0	0.166	0.021	0.005	0.015	0.003	0.007	42.4324;-76.49837
10/18/2018 16:31			0	0.166	0.021	0.005	0.023	0.003	0.007	
10/18/2018 16:32			0	0.166	0.021	0.005	0.021	0.003	0.005	
10/18/2018 16:33			0	0.166	0.022	0.005	0.026	0.003	0.005	
10/18/2018 16:34			0	0.166	0.022	0.006	0.024	0.003	0.006	
10/18/2018 16:35	12.5	71.9	0	0.166	0.022	0.006	0.019	0.003	0.005	42.43228;-76.49852
10/18/2018 16:36			0	0.166	0.022	0.006	0.024	0.003	0.006	
10/18/2018 16:37			0	0.166	0.022	0.006	0.026	0.003	0.004	
10/18/2018 16:38			0	0.166	0.022	0.006	0.027	0.003	0.004	
10/18/2018 16:39			0	0.166	0.022	0.006	0.026	0.003	0.004	
10/18/2018 16:40	12.5	71.9	0	0.166	0.022	0.006	0.026	0.003	0.005	42.43232;-76.49857
10/18/2018 16:41			0	0.166	0.023	0.006	0.028	0.003	0.005	
10/18/2018 16:42			0	0.166	0.023	0.006	0.026	0.003	0.004	
10/18/2018 16:43			0	0.166	0.024	0.006	0.031	0.003	0.005	
10/18/2018 16:44			0	0.166	0.024	0.006	0.03	0.003	0.008	
10/18/2018 16:45	12.5	72.9	0	0.166	0.025	0.006	0.025	0.003	0.006	42.4323;-76.49856
10/18/2018 16:46			0	0.166	0.025	0.006	0.026	0.003	0.006	
10/18/2018 16:47			0	0.166	0.026	0.006	0.034	0.003	0.007	
10/18/2018 16:48			0	0.166	0.027	0.006	0.058	0.003	0.023	
10/18/2018 16:49			0	0.166	0.029	0.006	0.032	0.003	0.045	
10/18/2018 16:50	12.5	81	0	0.166	0.03	0.007	0.031	0.003	0.005	42.43144;-76.49815
10/18/2018 16:51			0	0.166	0.03	0.007	0.031	0.003	0.004	
10/18/2018 16:52			0	0.166	0.032	0.007	0.059	0.003	0.008	
10/18/2018 16:53			0	0.166	0.035	0.007	0.068	0.003	0.014	
10/18/2018 16:54			0	0.166	0.037	0.007	0.038	0.003	0.005	
10/18/2018 16:55	12.5	71.9	0	0.166	0.038	0.007	0.035	0.003	0.004	42.43082;-76.49937
10/18/2018 16:56			0	0.166	0.038	0.007	0.035	0.003	0.005	
10/18/2018 16:57			0	0.166	0.039	0.007	0.029	0.003	0.004	
10/18/2018 16:58			0	0.166	0.039	0.007	0.02	0.003	0.004	
10/18/2018 16:59			0	0.166	0.038	0.007	0.021	0.004	0.004	
10/18/2018 17:00	12.5	72.9	0	0.166	0.038	0.007	0.026	0.004	0.004	42.43201;-76.49849
10/18/2018 17:01			0	0.166	0.038	0.007	0.03	0.004	0.004	
10/18/2018 17:02			0	0.166	0.037	0.007	0.023	0.004	0.004	
10/18/2018 17:03			0	0.166	0.037	0.007	0.027	0.004	0.005	
10/18/2018 17:04			0	0.166	0.034	0.008	0.029	0.004	0.004	
10/18/2018 17:05	12.5	88.1	0	0.166	0.034	0.008	0.024	0.004	0.004	42.4321;-76.49834
10/18/2018 17:06			0	0.166	0.033	0.008	0.03	0.004	0.004	
10/18/2018 17:07			0	0.166	0.032	0.008	0.028	0.004	0.004	
10/18/2018 17:08			0	0.166	0.029	0.008	0.025	0.004	0.004	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/18/2018 17:09			0	0.166	0.027	0.008	0.024	0.004	0.004	
10/18/2018 17:10	12.5	77.9	0	0.166	0.026	0.008	0.026	0.004	0.005	42.43209;-76.49834
10/18/2018 17:11			0	0.166	0.026	0.008	0.025	0.004	0.004	
10/18/2018 17:12			0	0.166	0.026	0.008	0.02	0.004	0.005	
10/18/2018 17:13			0	0.166	0.025	0.008	0.022	0.004	0.004	
10/18/2018 17:14			0	0.166	0.025	0.008	0.029	0.004	0.004	
10/18/2018 17:15	12.4	74.9	0	0.166	0.026	0.008	0.024	0.004	0.005	42.43209;-76.49836
10/18/2018 17:16			0	0.166	0.026	0.008	0.027	0.004	0.004	
10/18/2018 17:17			0	0.166	0.025	0.008	0.029	0.004	0.004	
10/18/2018 17:18			0	0.166	0.026	0.008	0.022	0.004	0.005	
10/18/2018 17:19			0	0.166	0.025	0.008	0.024	0.004	0.004	
10/18/2018 17:20	12.4	122.5	0	0.166	0.025	0.008	0.028	0.004	0.004	42.4321;-76.49837
10/18/2018 17:21			0	0.166	0.025	0.008	0.029	0.004	0.005	
10/18/2018 17:22			0	0.166	0.025	0.009	0.03	0.004	0.004	
10/18/2018 17:23			0	0.166	0.025	0.009	0.029	0.004	0.005	
10/18/2018 17:24			0	0.166	0.025	0.009	0.025	0.004	0.004	
10/18/2018 17:25	12.4	73.9	0	0.166	0.026	0.009	0.029	0.004	0.004	42.43204;-76.49831
10/18/2018 17:26			0	0.166	0.026	0.009	0.029	0.004	0.006	
10/18/2018 17:27			0	0.166	0.026	0.009	0.039	0.004	0.004	
10/18/2018 17:28			0	0.166	0.027	0.009	0.029	0.004	0.004	
10/18/2018 17:29			0	0.166	0.027	0.009	0.037	0.004	0.004	
10/18/2018 17:30	12.4	73.9	0	0.166	0.028	0.009	0.035	0.004	0.004	42.43203;-76.49834
10/18/2018 17:31			0	0.166	0.028	0.009	0.032	0.004	0.004	
10/18/2018 17:32			0	0.166	0.028	0.009	0.03	0.004	0.004	
10/18/2018 17:33			0	0.166	0.029	0.009	0.025	0.004	0.004	
10/18/2018 17:34			0	0.166	0.029	0.009	0.031	0.004	0.004	
10/18/2018 17:35	12.4	76.9	0	0.166	0.029	0.009	0.028	0.004	0.004	42.4321;-76.49837
10/18/2018 17:36			0	0.166	0.029	0.009	0.028	0.004	0.004	
10/18/2018 17:37			0	0.166	0.029	0.009	0.022	0.004	0.004	
10/18/2018 17:38			0	0.166	0.029	0.009	0.032	0.004	0.004	
10/18/2018 17:39			0	0.166	0.029	0.01	0.028	0.004	0.004	
10/18/2018 17:40	12.4	73.9	0	0.166	0.029	0.01	0.031	0.004	0.004	42.43215;-76.49847
10/18/2018 17:41			0	0.918	0.037	0.01	0.076	0.004	0.036	
10/18/2018 17:42			0	0.918	0.039	0.01	0.041	0.004	0.005	
10/18/2018 17:43			0	0.918	0.039	0.01	0.034	0.004	0.004	
10/18/2018 17:44			0	0.918	0.039	0.01	0.037	0.004	0.004	
10/18/2018 17:45	12.4	72.9	0	0.918	0.039	0.01	0.035	0.004	0.004	42.43207;-76.49837
10/18/2018 17:46			0	0.918	0.04	0.01	0.033	0.004	0.004	
10/18/2018 17:47			0	0.918	0.04	0.01	0.04	0.004	0.004	
10/18/2018 17:48			0	0.918	0.041	0.01	0.037	0.004	0.004	
10/18/2018 17:49			0	0.918	0.041	0.011	0.031	0.004	0.004	
10/18/2018 17:50	12.4	73.9	0	0.918	0.042	0.011	0.039	0.004	0.004	42.43213;-76.49842
10/18/2018 17:51			0	0.918	0.042	0.011	0.042	0.004	0.004	
10/18/2018 17:52			0	0.918	0.043	0.011	0.044	0.004	0.004	
10/18/2018 17:53			0	0.918	0.044	0.011	0.039	0.004	0.004	
10/18/2018 17:54			0	0.918	0.045	0.011	0.046	0.004	0.004	
10/18/2018 17:55	12.4	73.9	0	0.918	0.046	0.011	0.044	0.004	0.004	42.43211;-76.49838
10/18/2018 17:56			0	0.918	0.04	0.011	0.046	0.004	0.005	
10/18/2018 17:57			0	0.918	0.038	0.011	0.045	0.004	0.004	
10/18/2018 17:58			0	0.918	0.039	0.011	0.049	0.004	0.004	
10/18/2018 17:59			0	0.918	0.04	0.011	0.051	0.004	0.004	
10/18/2018 18:00	12.4	73.9	0	0.918	0.041	0.012	0.051	0.004	0.004	42.43214;-76.4984
10/18/2018 18:01			0	0.918	0.042	0.012	0.048	0.004	0.004	
10/18/2018 18:02			0	0.918	0.043	0.012	0.051	0.004	0.004	
10/18/2018 18:03			0	0.918	0.043	0.012	0.044	0.004	0.004	
10/18/2018 18:04			0	0.918	0.044	0.012	0.048	0.004	0.004	
10/18/2018 18:05	12.4	83	0	0.918	0.045	0.012	0.047	0.004	0.004	42.43211;-76.49837
10/18/2018 18:06			0	0.918	0.045	0.012	0.045	0.004	0.004	
10/18/2018 18:07			0	0.918	0.045	0.012	0.048	0.004	0.004	
10/18/2018 18:08			0	0.918	0.046	0.012	0.049	0.004	0.004	
10/18/2018 18:09			0	0.918	0.046	0.012	0.051	0.004	0.004	
10/18/2018 18:10	12.4	82	0	0.918	0.046	0.013	0.049	0.004	0.004	42.43213;-76.49841
10/18/2018 18:11			0	0.918	0.047	0.013	0.047	0.004	0.004	
10/18/2018 18:12			0	0.918	0.047	0.013	0.045	0.004	0.004	
10/18/2018 18:13			0	0.918	0.047	0.013	0.046	0.004	0.004	
10/18/2018 18:14			0	0.918	0.047	0.013	0.048	0.004	0.006	
10/18/2018 18:15	12.4	85	0	0.918	0.047	0.013	0.051	0.004	0.004	42.43209;-76.49843
10/18/2018 18:16			0	0.918	0.046	0.013	0.049	0.004	0.004	
10/18/2018 18:17			0	0.918	0.046	0.013	0.047	0.004	0.004	
10/18/2018 18:18			0	0.918	0.046	0.013	0.047	0.004	0.004	
10/18/2018 18:19			0	0.918	0.046	0.013	0.048	0.004	0.004	
10/18/2018 18:20	12.4	75.9	0	0.918	0.046	0.014	0.046	0.004	0.004	42.43213;-76.49847
10/18/2018 18:21			0	0.918	0.046	0.014	0.048	0.004	0.004	
10/18/2018 18:22			0	0.918	0.046	0.014	0.048	0.004	0.004	
10/18/2018 18:23			0	0.918	0.046	0.014	0.043	0.004	0.004	
10/18/2018 18:24			0	0.918	0.046	0.014	0.041	0.004	0.005	
10/18/2018 18:25	12.4	72.9	0	0.918	0.046	0.014	0.043	0.004	0.004	42.43214;-76.49843
10/18/2018 18:26			0	0.918	0.045	0.014	0.044	0.004	0.004	
10/18/2018 18:27			0	0.918	0.045	0.014	0.044	0.004	0.004	
10/18/2018 18:28			0	0.918	0.045	0.014	0.045	0.004	0.004	
10/18/2018 18:29			0	0.918	0.045	0.014	0.043	0.004	0.004	
10/18/2018 18:30	12.4	80	0	0.918	0.044	0.014	0.046	0.004	0.004	42.43212;-76.49839
10/18/2018 18:31			0	0.918	0.044	0.015	0.043	0.004	0.004	
10/18/2018 18:32			0	0.918	0.045	0.015	0.047	0.004	0.005	
10/18/2018 18:33			0	0.918	0.045	0.015	0.049	0.004	0.004	
10/18/2018 18:34			0	0.918	0.045	0.015	0.044	0.004	0.004	
10/18/2018 18:35	12.4	73.9	0	0.918	0.045	0.015	0.043	0.004	0.004	42.43209;-76.49846
10/18/2018 18:36			0	0.918	0.045	0.015	0.041	0.004	0.004	
10/18/2018 18:37			0	0.918	0.044	0.015	0.042	0.004	0.004	
10/18/2018 18:38			0	0.918	0.044	0.015	0.039	0.004	0.004	
10/18/2018 18:39			0	0.918	0.044	0.015	0.042	0.004	0.004	
10/18/2018 18:40	12.4	77.9	0	0.918	0.044	0.015	0.042	0.004	0.004	42.43196;-76.49861
10/18/2018 18:41			0	0.918	0.044	0.015	0.045	0.004	0.004	
10/18/2018 18:42			0	0.918	0.043	0.016	0.04	0.004	0.004	
10/18/2018 18:43			0	0.918	0.043	0.016	0.042	0.004	0.004	
10/18/2018 18:44			0	0.918	0.043	0.016	0.038	0.004	0.004	
10/18/2018 18:45	12.4	72.9	0	0.918	0.043	0.016	0.04	0.004	0.004	42.43198;-76.49835
10/18/2018 18:46			0	0.918	0.042	0.016	0.039	0.004	0.004	
10/18/2018 18:47			0	0.918	0.041	0.016	0.039	0.005	0.004	
10/18/2018 18:48			0	0.918	0.04	0.016	0.041	0.005	0.004	
10/18/2018 18:49			0	0.918	0.04	0.016	0.033	0.005	0.004	
10/18/2018 18:50	12.4	73.9	0	0.918	0.039	0.016	0.036	0.005	0.004	42.43208;-76.49834
10/18/2018 18:51			0	0.918	0.039	0.016	0.038	0.005	0.004	
10/18/2018 18:52			0	0.918	0.039	0.016	0.037	0.005	0.004	
10/18/2018 18:53			0	0.918	0.038	0.016	0.035	0.005	0.004	
10/18/2018 18:54			0	0.918	0.038	0.016	0.047	0.005	0.004	
10/18/2018 18:55	12.3	72.9	0	0.918	0.038	0.017	0.037	0.005	0.004	42.43208;-76.49837
10/18/2018 18:56			0	0.918	0.038	0.017	0.041	0.005	0.004	
10/18/2018 18:57			0	0.918	0.037	0.017	0.037	0.005	0.006	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/18/2018 18:58			0	0.918	0.037	0.017	0.04	0.005	0.005	
10/18/2018 18:59			0	0.918	0.037	0.017	0.044	0.005	0.004	
10/18/2018 19:00	12.3	79	0	0.918	0.037	0.017	0.044	0.005	0.004	42.43204;-76.49825
10/18/2018 19:01			0	0.918	0.037	0.017	0.04	0.005	0.004	
10/18/2018 19:02			0	0.918	0.037	0.017	0.043	0.005	0.004	
10/18/2018 19:03			0	0.918	0.038	0.017	0.042	0.005	0.004	
10/18/2018 19:04			0	0.918	0.038	0.017	0.046	0.005	0.004	
10/18/2018 19:05	12.3	84	0	0.918	0.039	0.017	0.045	0.005	0.004	42.43186;-76.49825
10/18/2018 19:06			0	0.918	0.04	0.017	0.048	0.005	0.004	
10/18/2018 19:07			0	0.918	0.04	0.018	0.051	0.005	0.004	
10/18/2018 19:08			0	0.918	0.041	0.018	0.055	0.005	0.004	
10/18/2018 19:09			0	0.918	0.042	0.018	0.06	0.005	0.004	
10/18/2018 19:10	12.3	74.9	0	0.918	0.043	0.018	0.058	0.005	0.004	42.4318;-76.49831
10/18/2018 19:11			0	0.918	0.045	0.018	0.059	0.005	0.004	
10/18/2018 19:12			0	0.918	0.047	0.018	0.063	0.005	0.004	
10/18/2018 19:13			0	0.918	0.048	0.018	0.064	0.005	0.004	
10/18/2018 19:14			0	0.918	0.05	0.018	0.065	0.005	0.004	
10/18/2018 19:15	12.3	84	0	0.918	0.052	0.019	0.07	0.005	0.004	42.43255;-76.49848
10/18/2018 19:16			0	0.918	0.054	0.019	0.069	0.005	0.004	
10/18/2018 19:17			0	0.918	0.055	0.019	0.077	0.005	0.005	
10/22/2018 13:58	12.7	97.2								
10/22/2018 13:58										42.4313134;-76.502859
10/22/2018 13:59			0	0	0	0	0	0	0.008	
10/22/2018 14:00	12.6	82	0	0	0	0	0	0	0.009	
10/22/2018 14:00										42.43001;-76.50094
10/22/2018 14:01			0	0	0	0	0	0	0.009	
10/22/2018 14:02			0	0	0	0	0	0	0.009	
10/22/2018 14:03			0	0	0	0	0	0	0.009	
10/22/2018 14:04			0	0	0	0	0	0	0.009	
10/22/2018 14:05	12.6	76.9	0	0	0	0	0	0	0.009	
10/22/2018 14:05										42.43006;-76.50095
10/22/2018 14:06			0	0	0	0	0	0	0.009	
10/22/2018 14:07			0	0	0	0	0	0	0.009	
10/22/2018 14:08			0	0	0	0	0	0	0.009	
10/22/2018 14:09			0	0	0	0	0	0	0.009	
10/22/2018 14:10	12.6	70.9	0	0	0	0	0	0	0.009	42.43011;-76.50095
10/22/2018 14:11			0	0	0	0	0	0	0.009	
10/22/2018 14:12			0	0	0	0	0	0	0.009	
10/22/2018 14:13			0	0	0	0	0	0	0.009	
10/22/2018 14:14			0	0	0	0	0	0	0.009	
10/22/2018 14:15	12.6	71.9	0	0	0	0	0	0	0.009	42.43006;-76.50092
10/22/2018 14:16			0	0	0	0	0	0	0.009	
10/22/2018 14:17			0	0	0	0	0	0	0.009	
10/22/2018 14:18			0	0	0	0	0	0	0.009	
10/22/2018 14:19			0	0	0	0	0	0	0.008	
10/22/2018 14:20	12.6	84	0	0	0	0	0	0	0.009	42.43003;-76.50092
10/22/2018 14:21			0	0	0	0	0	0	0.009	
10/22/2018 14:22			0	0	0	0	0	0	0.009	
10/22/2018 14:23			0	0	0	0	0	0	0.009	
10/22/2018 14:24			0	0	0	0	0	0	0.009	
10/22/2018 14:25	12.6	70.9	0	0	0	0	0	0	0.008	42.43014;-76.50098
10/22/2018 14:26			0	0	0	0	0	0.001	0.009	
10/22/2018 14:27			0	0	0	0	0	0.001	0.009	
10/22/2018 14:28			0	0	0	0	0	0.001	0.01	
10/22/2018 14:29			0	0	0	0	0	0.001	0.009	
10/22/2018 14:30	12.6	82	0	0	0	0	0	0.001	0.01	42.43011;-76.50094
10/22/2018 14:31			0	0	0	0	0	0.001	0.009	
10/22/2018 14:32			0	0	0	0	0	0.001	0.009	
10/22/2018 14:33			0	0	0	0	0	0.001	0.009	
10/22/2018 14:34			0	0	0	0	0	0.001	0.009	
10/22/2018 14:35	12.6	79	0	0	0	0	0	0.001	0.009	42.4301;-76.50089
10/22/2018 14:36			0	0	0	0	0	0.001	0.009	
10/22/2018 14:37			0	0	0	0	0	0.001	0.009	
10/22/2018 14:38			0	0	0	0	0	0.001	0.009	
10/22/2018 14:39			0	0	0	0	0	0.001	0.009	
10/22/2018 14:40	12.6	74.9	0	0	0	0	0	0.001	0.008	42.43013;-76.50092
10/22/2018 14:41			0	0	0	0	0	0.001	0.009	
10/22/2018 14:42			0	0	0	0	0	0.001	0.009	
10/22/2018 14:43			0	0	0	0	0	0.001	0.009	
10/22/2018 14:44			0	0	0	0	0	0.001	0.009	
10/22/2018 14:45	12.6	77.9	0	0	0	0	0	0.001	0.009	42.43016;-76.50096
10/22/2018 14:46			0	0	0	0	0	0.001	0.01	
10/22/2018 14:47			0	0	0	0	0	0.001	0.011	
10/22/2018 14:48			0	0	0	0	0	0.001	0.009	
10/22/2018 14:49			0	0	0	0	0	0.001	0.009	
10/22/2018 14:50	12.6	74.9	0	0	0	0	0	0.001	0.009	42.43014;-76.50092
10/22/2018 14:51			0	0	0	0	0	0.001	0.009	
10/22/2018 14:52			0	0	0	0	0	0.001	0.009	
10/22/2018 14:53			0	0	0	0	0	0.001	0.009	
10/22/2018 14:54			0	0	0	0	0	0.001	0.008	
10/22/2018 14:55	12.6	73.9	0	0	0	0	0	0.001	0.008	42.43016;-76.50083
10/22/2018 14:56			0	0	0	0	0	0.001	0.009	
10/22/2018 14:57			0	0	0	0	0	0.001	0.009	
10/22/2018 14:58			0	0	0	0	0	0.001	0.009	
10/22/2018 14:59			0	0	0	0	0	0.001	0.009	
10/22/2018 15:00	12.6	80	0	0	0	0	0	0.001	0.008	42.43018;-76.50094
10/22/2018 15:01			0	0	0	0	0	0.001	0.008	
10/22/2018 15:02			0	0	0	0	0	0.001	0.009	
10/22/2018 15:03			0	0	0	0	0	0.001	0.008	
10/22/2018 15:04			0	0	0	0	0	0.001	0.009	
10/22/2018 15:05	12.6	82	0	0	0	0	0	0.001	0.008	42.43012;-76.50095
10/22/2018 15:06			0	0	0	0	0	0.001	0.009	
10/22/2018 15:07			0	0	0	0	0	0.001	0.008	
10/22/2018 15:08			0	0	0	0	0	0.001	0.008	
10/22/2018 15:09			0	0	0	0	0	0.001	0.008	
10/22/2018 15:10	12.6	81	0	0	0	0	0	0.001	0.008	42.4301;-76.50092
10/22/2018 15:11			0	0	0	0	0	0.001	0.008	
10/22/2018 15:12			0	0	0	0	0	0.001	0.009	
10/22/2018 15:13			0	0	0	0	0	0.001	0.009	
10/22/2018 15:14			0	0	0	0	0	0.001	0.009	
10/22/2018 15:15	12.6	70.9	0	0	0	0	0	0.001	0.008	42.43018;-76.50094
10/22/2018 15:16			0	0	0	0	0	0.001	0.009	
10/22/2018 15:17			0	0	0	0	0	0.001	0.009	
10/22/2018 15:18			0	0	0	0	0	0.001	0.009	
10/22/2018 15:19			0	0	0	0	0	0.001	0.009	
10/22/2018 15:20	12.6	70.9	0	0	0	0	0	0.001	0.009	42.43024;-76.50093
10/22/2018 15:21			0	0	0	0	0	0.002	0.009	
10/22/2018 15:22			0	0	0	0	0	0.002	0.008	
10/22/2018 15:23			0	0	0	0	0	0.002	0.009	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/22/2018 15:24			0	0	0	0	0	0.002	0.009	
10/22/2018 15:25	12.6	74.9	0	0	0	0	0	0.002	0.009	42.43016;-76.50092
10/22/2018 15:26			0	0	0	0	0	0.002	0.009	
10/22/2018 15:27			0	0	0	0	0	0.002	0.008	
10/22/2018 15:28			0	0	0	0	0	0.002	0.008	
10/22/2018 15:29			0	0	0	0	0	0.002	0.008	
10/22/2018 15:30	12.6	76.9	0	0	0	0	0	0.002	0.008	42.43017;-76.50088
10/22/2018 15:31			0	0	0	0	0	0.002	0.008	
10/22/2018 15:32			0	0	0	0	0	0.002	0.009	
10/22/2018 15:33			0	0	0	0	0	0.002	0.008	
10/22/2018 15:34			0	0	0	0	0	0.002	0.009	
10/22/2018 15:35	12.6	81	0	0	0	0	0	0.002	0.009	42.43013;-76.50079
10/22/2018 15:36			0	0	0	0	0	0.002	0.014	
10/22/2018 15:37			0	0	0	0	0	0.002	0.01	
10/22/2018 15:38			0	0	0	0	0	0.002	0.009	
10/22/2018 15:39			0	0	0	0	0	0.002	0.008	
10/22/2018 15:40	12.6	72.9	0	0	0	0	0	0.002	0.009	42.43018;-76.50087
10/22/2018 15:41			0	0	0	0	0	0.002	0.009	
10/22/2018 15:42			0	0	0	0	0	0.002	0.009	
10/22/2018 15:43			0	0	0	0	0	0.002	0.008	
10/22/2018 15:44			0	0	0	0	0	0.002	0.009	
10/22/2018 15:45	12.6	77.9	0	0	0	0	0	0.002	0.008	42.43021;-76.50082
10/22/2018 15:46			0	0	0	0	0	0.002	0.009	
10/22/2018 15:47			0	0	0	0	0	0.002	0.009	
10/22/2018 15:48			0	0	0	0	0	0.002	0.008	
10/22/2018 15:49			0	0	0	0	0	0.002	0.009	
10/22/2018 15:50	12.6	79	0	0	0	0	0	0.002	0.008	42.43017;-76.50089
10/22/2018 15:51			0	0	0	0	0	0.002	0.008	
10/22/2018 15:52			0	0	0	0	0	0.002	0.008	
10/22/2018 15:53			0	0	0	0	0	0.002	0.009	
10/22/2018 15:54			0	0	0	0	0	0.002	0.009	
10/22/2018 15:55	12.6	77.9	0	0	0	0	0	0.002	0.009	42.43018;-76.50085
10/22/2018 15:56			0	0	0	0	0	0.002	0.009	
10/22/2018 15:57			0	0	0	0	0	0.002	0.008	
10/22/2018 15:58			0	0	0	0	0	0.002	0.008	
10/22/2018 15:59			0	0	0	0	0	0.002	0.009	
10/22/2018 16:00	12.6	88.1	0	0	0	0	0	0.002	0.009	42.43014;-76.50078
10/22/2018 16:01			0	0	0	0	0	0.002	0.009	
10/22/2018 16:02			0	0	0	0	0	0.002	0.009	
10/22/2018 16:03			0	0	0	0	0	0.002	0.009	
10/22/2018 16:04			0	0	0	0	0	0.002	0.009	
10/22/2018 16:05	12.6	73.9	0	0	0	0	0	0.002	0.009	42.43023;-76.50074
10/22/2018 16:06			0	0	0	0	0	0.002	0.009	
10/22/2018 16:07			0	0	0	0	0	0.002	0.009	
10/22/2018 16:08			0	0	0	0	0	0.002	0.008	
10/22/2018 16:09			0	0	0	0	0	0.002	0.009	
10/22/2018 16:10	12.6	71.9	0	0	0	0	0	0.002	0.009	42.43009;-76.50079
10/22/2018 16:11			0	0	0	0	0	0.002	0.009	
10/22/2018 16:12			0	0	0	0	0	0.002	0.009	
10/22/2018 16:13			0	0	0	0	0	0.002	0.009	
10/22/2018 16:14			0	0	0	0	0	0.002	0.008	
10/22/2018 16:15	12.6	109.3	0	0	0	0	0	0.003	0.009	42.42991;-76.50094
10/22/2018 16:16			0	0	0	0	0	0.003	0.009	
10/22/2018 16:17			0	0	0	0	0	0.003	0.009	
10/22/2018 16:18			0	0	0	0	0	0.003	0.008	
10/22/2018 16:19			0	0	0	0	0	0.003	0.008	
10/22/2018 16:20	12.6	79	0	0	0	0	0	0.003	0.008	42.42992;-76.50097
10/22/2018 16:21			0	0	0	0	0	0.003	0.008	
10/22/2018 16:22			0	0	0	0	0	0.003	0.009	
10/22/2018 16:23			0	0	0	0	0	0.003	0.008	
10/22/2018 16:24			0	0	0	0	0	0.003	0.008	
10/22/2018 16:25	12.6	71.9	0	0	0	0	0	0.003	0.009	42.43001;-76.50089
10/22/2018 16:26			0	0	0	0	0	0.003	0.008	
10/22/2018 16:27			0	0	0	0	0	0.003	0.008	
10/22/2018 16:28			0	0	0	0	0	0.003	0.008	
10/22/2018 16:29			0	0	0	0	0	0.003	0.009	
10/22/2018 16:30	12.6	73.9	0	0	0	0	0	0.003	0.01	42.42998;-76.50085
10/22/2018 16:31			0	0	0	0	0	0.003	0.009	
10/22/2018 16:32			0	0	0	0	0	0.003	0.009	
10/22/2018 16:33			0	0	0	0	0	0.003	0.009	
10/22/2018 16:34			0	0	0	0	0	0.003	0.009	
10/22/2018 16:35	12.6	72.9	0	0	0	0	0	0.003	0.009	42.4301;-76.50091
10/22/2018 16:36			0	0	0	0	0	0.003	0.009	
10/22/2018 16:37			0	0	0	0	0	0.003	0.009	
10/22/2018 16:38			0	0	0	0	0	0.003	0.009	
10/22/2018 16:39			0	0	0	0	0	0.003	0.009	
10/22/2018 16:40	12.6	79	0	0	0	0	0	0.003	0.009	42.43014;-76.50088
10/22/2018 16:41			0	0	0	0	0	0.003	0.009	
10/22/2018 16:42			0	0	0	0	0	0.003	0.009	
10/22/2018 16:43			0	0	0	0	0	0.003	0.009	
10/22/2018 16:44			0	0	0	0	0	0.003	0.01	
10/22/2018 16:45	12.6	84	0	0	0	0	0	0.003	0.01	42.43003;-76.5009
10/22/2018 16:46			0	0	0	0	0	0.003	0.01	
10/22/2018 16:47			0	0	0	0	0	0.003	0.011	
10/22/2018 16:48			0	0	0	0	0	0.003	0.011	
10/22/2018 16:49			0	0	0	0	0	0.003	0.011	
10/22/2018 16:50	12.6	114.4	0	0	0	0	0	0.003	0.01	42.43008;-76.50092
10/22/2018 16:51			0	0	0	0	0	0.003	0.01	
10/22/2018 16:52			0	0	0	0	0	0.003	0.01	
10/22/2018 16:53			0	0	0	0	0	0.003	0.01	
10/22/2018 16:54			0	0	0	0	0	0.003	0.011	
10/22/2018 16:55	12.6	77.9	0	0	0	0	0	0.003	0.009	42.43015;-76.50089
10/22/2018 16:56			0	0	0	0	0	0.003	0.009	
10/22/2018 16:57			0	0	0	0	0	0.003	0.009	
10/22/2018 16:58			0	0	0	0	0	0.003	0.009	
10/22/2018 16:59			0	0	0	0	0	0.003	0.009	
10/22/2018 17:00	12.6	73.9	0	0	0	0	0	0.003	0.009	42.43011;-76.50095
10/22/2018 17:01			0	0	0	0	0	0.003	0.009	
10/22/2018 17:02			0	0	0	0	0	0.003	0.009	
10/22/2018 17:03			0	0	0	0	0	0.003	0.009	
10/22/2018 17:04			0	0	0	0	0	0.003	0.009	
10/22/2018 17:05	12.6	80	0	0	0	0	0	0.003	0.009	42.43007;-76.50088
10/22/2018 17:06			0	0	0	0	0	0.003	0.009	
10/22/2018 17:07			0	0	0	0	0	0.004	0.01	
10/22/2018 17:08			0	0	0	0	0	0.004	0.01	
10/22/2018 17:09			0	0	0	0	0	0.004	0.01	
10/22/2018 17:10	12.6	83	0	0	0	0	0	0.004	0.01	42.42999;-76.50082
10/22/2018 17:11			0	0	0	0	0	0.004	0.009	
10/22/2018 17:12			0	0	0	0	0	0.004	0.009	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/22/2018 17:13			0	0	0	0	0	0.004	0.009	
10/22/2018 17:14			0	0	0	0	0	0.004	0.009	
10/22/2018 17:15	12.6	81	0	0	0	0	0	0.004	0.009	42.43003;-76.50085
10/22/2018 17:16			0	0	0	0	0	0.004	0.01	
10/22/2018 17:17			0	0	0	0	0	0.004	0.009	
10/22/2018 17:18			0	0	0	0	0	0.004	0.009	
10/22/2018 17:19			0	0	0	0	0	0.004	0.009	
10/22/2018 17:20	12.5	74.9	0	0	0	0	0	0.004	0.01	42.42999;-76.50084
10/22/2018 17:21			0	0	0	0	0	0.004	0.01	
10/22/2018 17:22			0	0	0	0	0	0.004	0.011	
10/22/2018 17:23			0	0	0	0	0	0.004	0.01	
10/22/2018 17:24			0	0	0	0	0	0.004	0.009	
10/22/2018 17:25	12.5	71.9	0	0	0	0	0	0.004	0.01	42.43005;-76.50083
10/22/2018 17:26			0	0	0	0	0	0.004	0.009	
10/22/2018 17:27			0	0	0	0	0	0.004	0.009	
10/22/2018 17:28			0	0	0	0	0	0.004	0.01	
10/22/2018 17:29			0	0	0	0	0	0.004	0.009	
10/22/2018 17:30	12.5	73.9	0	0	0	0	0	0.004	0.01	42.42997;-76.50079
10/22/2018 17:31			0	0	0	0	0	0.004	0.009	
10/22/2018 17:32			0	0	0	0	0	0.004	0.009	
10/22/2018 17:33			0	0	0	0	0	0.004	0.009	
10/22/2018 17:34			0	0	0	0	0	0.004	0.009	
10/22/2018 17:35	12.5	81	0	0	0	0	0	0.004	0.01	42.43016;-76.50092
10/22/2018 17:36			0	0	0	0	0	0.004	0.009	
10/22/2018 17:37			0	0	0	0	0	0.004	0.01	
10/22/2018 17:38			0	0	0	0	0	0.004	0.009	
10/22/2018 17:39			0	0	0	0	0	0.004	0.011	
10/22/2018 17:40	12.5	76.9	0	0	0	0	0	0.004	0.009	42.43016;-76.50096
10/22/2018 17:41			0	0	0	0	0	0.004	0.009	
10/22/2018 17:42			0	0	0	0	0	0.004	0.009	
10/22/2018 17:43			0	0	0	0	0	0.004	0.01	
10/22/2018 17:44			0	0	0	0	0	0.004	0.009	
10/22/2018 17:45	12.5	71.9	0	0	0	0	0	0.004	0.009	42.43015;-76.50099
10/22/2018 17:46			0	0	0	0	0	0.004	0.009	
10/22/2018 17:47			0	0	0	0	0	0.004	0.01	
10/22/2018 17:48			0	0	0	0	0	0.004	0.009	
10/22/2018 17:49			0	0	0	0	0	0.004	0.009	
10/22/2018 17:50	12.5	74.9	0	0	0	0	0	0.004	0.009	42.43016;-76.50085
10/22/2018 17:51			0	0	0	0	0	0.004	0.01	
10/22/2018 17:52			0	0	0	0	0	0.004	0.009	
10/22/2018 17:53			0	0	0	0	0	0.004	0.009	
10/22/2018 17:54			0	0	0	0	0	0.004	0.009	
10/22/2018 17:55	12.5	71.9	0	0	0	0	0	0.004	0.009	42.43018;-76.50094
10/22/2018 17:56			0	0	0	0	0	0.004	0.009	
10/22/2018 17:57			0	0	0	0	0	0.004	0.012	
10/22/2018 17:58			0	0	0	0	0	0.005	0.021	
10/22/2018 17:59			0	0	0	0	0	0.005	0.014	
10/22/2018 18:00	12.5	76.9	0	0	0	0	0	0.005	0.009	42.4302;-76.50097
10/22/2018 18:01			0	0	0	0	0	0.005	0.01	
10/22/2018 18:02			0	0	0	0	0	0.005	0.01	
10/22/2018 18:03			0	0	0	0	0	0.005	0.009	
10/22/2018 18:04			0	0	0	0	0	0.005	0.008	
10/22/2018 18:05	12.5	79	0	0	0	0	0	0.005	0.009	42.43017;-76.50095
10/22/2018 18:06			0	0	0	0	0	0.005	0.008	
10/22/2018 18:07			0	0	0	0	0	0.005	0.009	
10/22/2018 18:08			0	0	0	0	0	0.005	0.008	
10/22/2018 18:09			0	0	0	0	0	0.005	0.008	
10/22/2018 18:10	12.5	72.9	0	0	0	0	0	0.005	0.008	42.43013;-76.50094
10/22/2018 18:11			0	0	0	0	0	0.005	0.01	
10/22/2018 18:12			0	0	0	0	0	0.005	0.009	
10/22/2018 18:13			0	0.001	0	0	0.001	0.005	0.009	
10/22/2018 18:14			0	0.001	0	0	0	0.005	0.008	
10/22/2018 18:15	12.5	72.9	0	0.001	0	0	0	0.005	0.008	42.43015;-76.50094
10/22/2018 18:16			0	0.001	0	0	0	0.005	0.008	
10/22/2018 18:17			0	0.139	0	0	0	0.005	0.012	
10/22/2018 18:18			0	0.139	0	0	0	0.005	0.008	
10/22/2018 18:19			0	0.139	0	0	0.012	0.005	0.008	
10/22/2018 18:20	12.5	76.9	0	0.139	0.001	0	0.004	0.005	0.008	42.43018;-76.5009
10/22/2018 18:21			0	0.139	0.001	0	0.001	0.005	0.008	
10/22/2018 18:22			0	0.139	0.002	0	0.013	0.005	0.008	
10/22/2018 18:23			0	0.139	0.003	0	0.025	0.005	0.009	
10/22/2018 18:24			0	0.139	0.004	0	0.037	0.005	0.008	
10/22/2018 18:25	12.5	73.9	0	0.139	0.006	0	0.021	0.005	0.008	42.43009;-76.50092
10/22/2018 18:26			0	0.139	0.007	0	0.002	0.005	0.008	
10/22/2018 18:27			0	0.139	0.008	0	0.016	0.005	0.008	
10/22/2018 18:28			0	0.139	0.008	0	0.019	0.005	0.008	
10/22/2018 18:29			0	0.139	0.009	0	0.029	0.005	0.009	
10/22/2018 18:30	12.5	72.9	0	0.139	0.01	0	0.022	0.005	0.008	42.43017;-76.50089
10/22/2018 18:31			0	0.139	0.011	0	0.019	0.005	0.008	
10/22/2018 18:32			0	0.139	0.013	0	0.038	0.005	0.008	
10/22/2018 18:33			0	0.139	0.014	0	0.017	0.005	0.008	
10/22/2018 18:34			0	0.139	0.016	0	0.028	0.005	0.008	
10/22/2018 18:35	12.5	72.9	0	0.139	0.016	0	0.019	0.005	0.008	42.43017;-76.50089
10/22/2018 18:36			0	0.139	0.017	0	0.028	0.005	0.008	
10/22/2018 18:37			0	0.139	0.017	0	0.012	0.005	0.008	
10/22/2018 18:38			0	0.139	0.017	0	0.039	0.005	0.008	
10/22/2018 18:39			0	0.139	0.017	0	0.035	0.005	0.008	
10/22/2018 18:40	12.5	85	0	0.139	0.018	0	0.023	0.005	0.008	42.43014;-76.50088
10/22/2018 18:41			0	0.139	0.018	0	0.03	0.005	0.008	
10/22/2018 18:42			0	0.139	0.019	0	0.037	0.005	0.008	
10/22/2018 18:43			0	0.139	0.02	0	0.034	0.005	0.008	
10/22/2018 18:44			0	0.139	0.021	0	0.031	0.005	0.008	
10/22/2018 18:45	12.5	82	0	0.139	0.022	0.001	0.032	0.005	0.008	42.43022;-76.50085
10/22/2018 18:46			0	0.139	0.023	0.001	0.017	0.005	0.008	
10/22/2018 18:47			0	0.139	0.023	0.001	0.031	0.005	0.008	
10/22/2018 18:48			0	0.139	0.023	0.001	0.042	0.005	0.008	
10/22/2018 18:49			0	0.139	0.023	0.001	0.031	0.005	0.008	
10/22/2018 18:50	12.5	71.9	0	0.139	0.024	0.001	0.039	0.005	0.011	42.43021;-76.50087
10/22/2018 18:51			0	0.139	0.025	0.001	0.024	0.005	0.008	
10/22/2018 18:52			0	0.139	0.026	0.001	0.027	0.005	0.008	
10/22/2018 18:53			0	0.139	0.027	0.001	0.029	0.006	0.008	
10/22/2018 18:54			0	0.139	0.027	0.001	0.03	0.006	0.009	
10/22/2018 18:55	12.5	72.9	0	0.139	0.028	0.001	0.032	0.006	0.009	42.43017;-76.50089
10/22/2018 18:56			0	0.139	0.029	0.001	0.043	0.006	0.01	
10/22/2018 18:57			0	0.139	0.03	0.001	0.038	0.006	0.01	
10/22/2018 18:58			0	0.139	0.03	0.001	0.023	0.006	0.011	
10/22/2018 18:59			0	0.139	0.03	0.001	0.027	0.006	0.011	
10/22/2018 19:00	12.5	72.9	0	0.139	0.03	0.002	0.015	0.006	0.012	42.43012;-76.50088
10/22/2018 19:01			0	0.139	0.031	0.002	0.042	0.006	0.009	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/22/2018 19:02			0	0.139	0.031	0.002	0.034	0.006	0.009	
10/22/2018 19:03			0	0.139	0.032	0.002	0.036	0.006	0.008	
10/22/2018 19:04			0	0.139	0.031	0.002	0.034	0.006	0.008	
10/22/2018 19:05	12.4	71.9	0	0.139	0.031	0.002	0.044	0.006	0.008	42.43008;-76.50091
10/22/2018 19:06			0	0.139	0.032	0.002	0.043	0.006	0.008	
10/22/2018 19:07			0	0.139	0.031	0.002	0.029	0.006	0.008	
10/22/2018 19:08			0	0.139	0.032	0.002	0.019	0.006	0.009	
10/22/2018 19:09			0	0.139	0.031	0.002	0.008	0.006	0.008	
10/22/2018 19:10	12.4	80	0	0.139	0.03	0.002	0	0.006	0.008	42.43009;-76.50091
10/22/2018 19:11			0	0.139	0.028	0.002	0	0.006	0.008	
10/22/2018 19:12			0	0.139	0.025	0.002	0	0.006	0.008	
10/22/2018 19:13			0	0.139	0.023	0.002	0	0.006	0.008	
10/22/2018 19:14			0	0.139	0.021	0.002	0	0.006	0.008	
10/22/2018 19:15	12.4	81	0	0.139	0.019	0.002	0	0.006	0.008	42.43017;-76.50088
10/22/2018 19:16			0	0.139	0.017	0.002	0	0.006	0.008	
10/22/2018 19:17			0	0.139	0.015	0.002	0	0.006	0.009	
10/22/2018 19:18			0	0.139	0.013	0.002	0	0.006	0.01	
10/22/2018 19:19			0	0.139	0.011	0.002	0	0.006	0.009	
10/22/2018 19:20	12.4	73.9	0	0.139	0.009	0.002	0	0.006	0.008	42.43007;-76.50092
10/22/2018 19:21			0	0.139	0.006	0.002	0	0.006	0.008	
10/22/2018 19:22			0	0.139	0.005	0.002	0	0.006	0.009	
10/22/2018 19:23			0	0.139	0.002	0.002	0	0.006	0.008	
10/22/2018 19:24			0	0.139	0.001	0.002	0	0.006	0.008	
10/22/2018 19:25	12.4	81	0	0.139	0	0.002	0	0.006	0.008	42.43002;-76.50102
10/22/2018 19:26			0	0.139	0	0.002	0	0.006	0.008	
10/22/2018 19:27			0	0.139	0	0.002	0	0.006	0.008	
10/22/2018 19:28			0	0.139	0	0.002	0	0.006	0.008	
10/22/2018 19:29			0	0.139	0	0.002	0	0.006	0.008	
10/22/2018 19:30	12.4	72.9	0	0.139	0	0.002	0	0.006	0.008	42.43011;-76.50101
10/22/2018 19:31			0	0.139	0	0.002	0	0.006	0.008	
10/22/2018 19:32			0	0.139	0	0.002	0	0.006	0.008	
10/22/2018 19:33			0	0.139	0	0.002	0	0.006	0.008	
10/22/2018 19:34			0	0.139	0	0.002	0	0.006	0.008	
10/22/2018 19:35	12.4	72.9	0	0.139	0	0.002	0	0.006	0.009	42.4301;-76.50091
10/22/2018 19:36			0	0.139	0	0.002	0	0.006	0.011	
10/22/2018 19:37			0	0.139	0	0.002	0.001	0.006	0.011	
10/22/2018 19:38			0	0.139	0	0.002	0	0.006	0.01	
10/22/2018 19:39			0	0.139	0	0.002	0	0.006	0.009	
10/22/2018 19:40	12.4	87	0	0.139	0	0.002	0	0.006	0.008	42.4301;-76.50089
10/22/2018 19:41			0	0.139	0	0.002	0	0.006	0.009	
10/22/2018 19:42			0	0.139	0	0.002	0	0.006	0.009	
10/22/2018 19:43			0	0.139	0	0.002	0	0.006	0.009	
10/22/2018 19:44			0	0.139	0	0.002	0	0.006	0.008	
10/22/2018 19:45	12.4	83	0	0.139	0	0.002	0	0.006	0.008	42.43012;-76.50088
10/22/2018 19:46			0	0.139	0	0.002	0	0.006	0.009	
10/22/2018 19:47			0	0.139	0	0.002	0	0.006	0.008	
10/22/2018 19:48			0	0.139	0	0.002	0	0.007	0.009	
10/22/2018 19:49			0	0.139	0	0.002	0	0.007	0.009	
10/22/2018 19:50	12.4	80	0	0.139	0	0.002	0	0.007	0.009	42.43015;-76.50089
10/22/2018 19:51			0	0.139	0	0.002	0	0.007	0.009	
10/22/2018 19:52			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 19:53			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 19:54			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 19:55	12.4	72.9	0	0.139	0	0.002	0	0.007	0.008	42.4301;-76.50089
10/22/2018 19:56			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 19:57			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 19:58			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 19:59			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:00	12.4	72.9	0	0.139	0	0.002	0	0.007	0.008	42.43011;-76.50091
10/22/2018 20:01			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:02			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:03			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:04			0	0.139	0	0.002	0	0.007	0.007	
10/22/2018 20:05	12.4	87	0	0.139	0	0.002	0	0.007	0.007	42.43008;-76.50089
10/22/2018 20:06			0	0.139	0	0.002	0	0.007	0.007	
10/22/2018 20:07			0	0.139	0	0.002	0	0.007	0.007	
10/22/2018 20:08			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:09			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:10	12.4	81	0	0.139	0	0.002	0	0.007	0.008	42.4301;-76.50095
10/22/2018 20:11			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:12			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:13			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:14			0	0.139	0	0.002	0	0.007	0.009	
10/22/2018 20:15	12.4	84	0	0.139	0	0.002	0	0.007	0.009	42.43008;-76.50093
10/22/2018 20:16			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:17			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:18			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:19			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:20	12.4	73.9	0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:21			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:22			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:23			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:24			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:25	12.4	61.7	0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:26			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:27			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:28			0	0.139	0	0.002	0	0.007	0.008	
10/22/2018 20:29			0	0.196	0	0.002	0	0.007	0.017	
10/22/2018 20:30	12.4	61.7	0	0.196	0.002	0.002	0	0.007	0.008	
10/22/2018 20:31			0	0.196	0.002	0.002	0	0.007	0.008	
10/22/2018 20:32			0	0.196	0.002	0.002	0.025	0.007	0.008	
10/22/2018 20:33			0	0.196	0.002	0.002	0	0.007	0.009	
10/22/2018 20:34			0	0.196	0.002	0.002	0	0.007	0.008	
10/22/2018 20:35	12.4	61.7	0	0.196	0.002	0.002	0	0.007	0.008	
10/22/2018 20:36			0	0.196	0.002	0.002	0	0.007	0.008	
10/22/2018 20:37			0	0.196	0.002	0.002	0	0.007	0.008	
10/22/2018 20:38			0	0.196	0.002	0.002	0	0.007	0.008	
10/22/2018 20:39			0	0.196	0.002	0.002	0	0.007	0.008	
10/22/2018 20:40	12.4	60.7	0	0.196	0.002	0.002	0	0.007	0.008	
10/22/2018 20:41			0	0.196	0.002	0.002	0	0.007	0.008	
10/22/2018 20:42			0	0.196	0.002	0.002	0	0.007	0.008	
10/22/2018 20:43			0	0.196	0.002	0.002	0	0.007	0.008	
10/22/2018 20:44			0	0.196	0.002	0.002	0	0.007	0.008	
10/22/2018 20:45	12.4	61.7	0	0.196	0	0.002	0	0.007	0.008	
10/22/2018 20:45										42.4315388;-76.5031834
10/22/2018 20:46			0	0.196	0	0.002	0	0.007	0.008	
10/22/2018 20:47			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 20:48			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 20:49			0	0.196	0	0.002	0	0.008	0.008	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/22/2018 20:50	12.4	60.7	0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 20:51			0	0.196	0	0.002	0	0.008	0.007	
10/22/2018 20:52			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 20:53			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 20:54			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 20:55	12.3	60.7	0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 20:56			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 20:57			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 20:58			0	0.196	0	0.002	0.001	0.008	0.008	
10/22/2018 20:59			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 21:00	12.3	60.7	0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 21:01			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 21:02			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 21:03			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 21:04			0	0.196	0	0.002	0.007	0.008	0.008	
10/22/2018 21:05	12.3	60.7	0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 21:06			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 21:07			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 21:08			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 21:09			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 21:10	12.3	60.7	0	0.196	0	0.002	0.002	0.008	0.008	
10/22/2018 21:11			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 21:12			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 21:13			0	0.196	0	0.002	0	0.008	0.008	
10/22/2018 21:14			0	0.196	0	0.002	0.001	0.008	0.008	
10/22/2018 21:15	12.3	61.7	0	0.196	0	0.002	0.031	0.008	0.008	
10/22/2018 21:16			0	0.196	0.001	0.002	0.023	0.008	0.008	
10/22/2018 21:17			0	0.196	0.003	0.002	0.029	0.008	0.008	
10/22/2018 21:18			0	0.196	0.005	0.002	0.03	0.008	0.009	
10/22/2018 21:19			0	0.196	0.006	0.002	0.017	0.008	0.007	
10/22/2018 21:20	12.3	61.7	0	0.196	0.007	0.002	0.02	0.008	0.008	
10/22/2018 21:21			0	0.196	0.008	0.002	0.014	0.008	0.008	
10/22/2018 21:22			0	0.196	0.01	0.003	0.025	0.008	0.007	
10/22/2018 21:23			0	0.196	0.012	0.003	0.013	0.008	0.008	
10/22/2018 21:24			0	0.196	0.013	0.003	0.017	0.008	0.008	
10/22/2018 21:25	12.3	61.7	0	0.196	0.014	0.003	0.03	0.008	0.008	
10/22/2018 21:26			0	0.196	0.016	0.003	0.022	0.008	0.008	
10/22/2018 21:27			0	0.196	0.017	0.003	0.005	0.008	0.008	
10/22/2018 21:28			0	0.196	0.019	0.003	0.034	0.008	0.008	
10/22/2018 21:29			0	0.196	0.02	0.003	0.025	0.008	0.008	
10/22/2018 21:30	12.3	60.7	0	0.196	0.022	0.003	0.032	0.008	0.008	
10/22/2018 21:31			0	0.196	0.023	0.003	0.022	0.008	0.008	
10/22/2018 21:32			0	0.196	0.023	0.003	0.036	0.008	0.008	
10/22/2018 21:33			0	0.196	0.024	0.003	0	0.008	0.008	
10/22/2018 21:34			0	0.196	0.024	0.003	0.016	0.008	0.008	
10/22/2018 21:35	12.3	61.7	0	0.196	0.023	0.003	0.031	0.008	0.008	
10/22/2018 21:36			0	0.196	0.024	0.003	0.03	0.008	0.008	
10/22/2018 21:37			0	0.196	0.024	0.003	0.027	0.008	0.008	
10/22/2018 21:38			0	0.196	0.024	0.003	0.022	0.008	0.007	
10/22/2018 21:39			0	0.196	0.024	0.003	0.022	0.008	0.008	
10/22/2018 21:40	12.3	61.7	0	0.196	0.025	0.003	0.031	0.008	0.008	
10/22/2018 21:41			0	0.196	0.025	0.003	0.024	0.008	0.008	
10/22/2018 21:42			0	0.196	0.025	0.004	0.034	0.008	0.008	
10/22/2018 21:43			0	0.196	0.025	0.004	0.028	0.008	0.007	
10/22/2018 21:44			0	0.196	0.026	0.004	0.028	0.008	0.008	
10/22/2018 21:45	12.3	62.8	0	0.196	0.026	0.004	0.019	0.008	0.008	
10/22/2018 21:46			0	0.196	0.026	0.004	0.03	0.008	0.009	
10/22/2018 21:47			0	0.196	0.026	0.004	0.008	0.008	0.009	
10/22/2018 21:48			0	0.196	0.025	0.004	0.015	0.009	0.009	
10/22/2018 21:49			0	0.196	0.025	0.004	0.023	0.009	0.009	
10/22/2018 21:50	12.3	60.7	0	0.196	0.025	0.004	0.027	0.009	0.01	
10/22/2018 21:51			0	0.196	0.025	0.004	0.008	0.009	0.009	
10/22/2018 21:52			0	0.196	0.025	0.004	0.016	0.009	0.008	
10/22/2018 21:53			0	0.196	0.024	0.004	0.03	0.009	0.008	
10/22/2018 21:54			0	0.196	0.024	0.004	0.025	0.009	0.008	
10/22/2018 21:55	12.3	61.7	0	0.196	0.023	0.004	0.022	0.009	0.009	
10/22/2018 21:55										42.431281299999995;-76.5029064
10/22/2018 21:56			0	0.196	0.023	0.004	0.021	0.009	0.009	
10/22/2018 21:57			0	0.196	0.023	0.004	0.019	0.009	0.008	
10/22/2018 21:58			0	0.196	0.022	0.004	0.016	0.009	0.008	
10/22/2018 21:59			0	0.196	0.021	0.004	0.019	0.009	0.009	
10/22/2018 22:00	12.3	59.7	0	0.196	0.02	0.004	0.024	0.009	0.009	
10/22/2018 22:01			0	0.196	0.02	0.004	0.024	0.009	0.009	
10/22/2018 22:02			0	0.196	0.02	0.004	0.025	0.009	0.008	
10/22/2018 22:03			0	0.196	0.02	0.005	0.037	0.009	0.009	
10/22/2018 22:04			0	0.196	0.021	0.005	0.034	0.009	0.009	
10/22/2018 22:05	12.3	62.8	0	0.196	0.021	0.005	0.03	0.009	0.009	
10/22/2018 22:06			0	0.196	0.021	0.005	0.021	0.009	0.009	
10/22/2018 22:07			0	0.196	0.022	0.005	0.025	0.009	0.01	
10/22/2018 22:08			0	0.196	0.022	0.005	0.014	0.009	0.009	
10/22/2018 22:09			0	0.196	0.021	0.005	0.027	0.009	0.009	
10/22/2018 22:10	12.3	61.7	0	0.196	0.022	0.005	0.018	0.009	0.008	
10/22/2018 22:11			0	0.196	0.022	0.005	0.01	0.009	0.008	
10/22/2018 22:12			0	0.196	0.022	0.005	0.011	0.009	0.008	
10/22/2018 22:13			0	0.196	0.021	0.005	0.014	0.009	0.008	
10/23/2018 12:05	12.7	97.2								
10/23/2018 12:06			0	0	0	0	0			
10/23/2018 12:07			0	0	0	0	0	0		
10/23/2018 12:08			0	0	0	0	0	0	0.012	
10/23/2018 12:09			0	0	0	0	0	0	0.012	
10/23/2018 12:10	12.6	79	0	0	0	0	0	0	0.012	
10/23/2018 12:10										42.43195;-76.49837
10/23/2018 12:11			0	0	0	0	0	0	0.012	
10/23/2018 12:12			0	0	0	0	0	0	0.012	
10/23/2018 12:13			0	0	0	0	0	0	0.012	
10/23/2018 12:14			0	0	0	0	0	0	0.012	
10/23/2018 12:15	12.6	76.9	0	0	0	0	0	0	0.012	
10/23/2018 12:15										42.43205;-76.49831
10/23/2018 12:16			0	0	0	0	0	0	0.012	
10/23/2018 12:17			0	0	0	0	0	0	0.012	
10/23/2018 12:18			0	0	0	0	0	0	0.012	
10/23/2018 12:19			0	0	0	0	0	0	0.012	
10/23/2018 12:20	12.6	72.9	0	0	0	0	0	0	0.012	
10/23/2018 12:20										42.43205;-76.4983
10/23/2018 12:21			0	0	0	0	0	0	0.012	
10/23/2018 12:22			0	0	0	0	0	0	0.013	
10/23/2018 12:23			0	0	0	0	0	0	0.013	
10/23/2018 12:24			0	0	0	0	0	0	0.013	
10/23/2018 12:25	12.6	73.9	0	0	0	0	0	0	0.013	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/23/2018 12:25										42.4321;-76.49836
10/23/2018 12:26			0	0	0	0	0	0	0.013	
10/23/2018 12:27			0	0	0	0	0	0.001	0.016	
10/23/2018 12:28			0	0	0	0	0	0.001	0.016	
10/23/2018 12:29			0	0	0	0	0	0.001	0.013	
10/23/2018 12:30	12.6	86	0	0	0	0	0	0.001	0.014	
10/23/2018 12:30										42.43212;-76.49838
10/23/2018 12:31			0	0	0	0	0	0.001	0.014	
10/23/2018 12:32			0	0	0	0	0	0.001	0.013	
10/23/2018 12:33			0	0	0	0	0	0.001	0.012	
10/23/2018 12:34			0	0	0	0	0	0.001	0.012	
10/23/2018 12:35	12.6	73.9	0	0	0	0	0	0.001	0.013	
10/23/2018 12:35										42.43206;-76.49842
10/23/2018 12:36			0	0	0	0	0	0.001	0.016	
10/23/2018 12:37			0	0	0	0	0	0.001	0.015	
10/23/2018 12:38			0	0	0	0	0	0.001	0.013	
10/23/2018 12:39			0	0	0	0	0	0.001	0.013	
10/23/2018 12:40	12.6	79	0	0	0	0	0	0.001	0.013	
10/23/2018 12:40										42.43169;-76.49862
10/23/2018 12:41			0	0	0	0	0	0.001	0.013	
10/23/2018 12:42			0	0	0	0	0	0.001	0.013	
10/23/2018 12:43			0	0	0	0	0	0.001	0.013	
10/23/2018 12:44			0	0	0	0	0	0.001	0.012	
10/23/2018 12:45	12.6	71.9	0	0	0	0	0	0.001	0.012	
10/23/2018 12:45										42.43206;-76.49844
10/23/2018 12:46			0	0	0	0	0	0.001	0.012	
10/23/2018 12:47			0	0	0	0	0	0.001	0.011	
10/23/2018 12:48			0	0	0	0	0	0.001	0.012	
10/23/2018 12:49			0	0	0	0	0	0.001	0.012	
10/23/2018 12:50	12.6	79	0	0	0	0	0	0.001	0.013	
10/23/2018 12:50										42.43196;-76.4985
10/23/2018 12:51			0	0	0	0	0	0.001	0.013	
10/23/2018 12:52			0	0	0	0	0	0.001	0.012	
10/23/2018 12:53			0	0	0	0	0	0.001	0.012	
10/23/2018 12:54			0	0	0	0	0	0.001	0.012	
10/23/2018 12:55	12.6	70.9	0	0	0	0	0	0.001	0.012	
10/23/2018 12:55										42.43194;-76.49844
10/23/2018 12:56			0	0	0	0	0	0.001	0.012	
10/23/2018 12:57			0	0	0	0	0	0.001	0.012	
10/23/2018 12:58			0	0	0	0	0	0.001	0.012	
10/23/2018 12:59			0	0	0	0	0	0.001	0.012	
10/23/2018 13:00	12.6	74.9	0	0	0	0	0	0.001	0.011	
10/23/2018 13:00										42.43184;-76.49843
10/23/2018 13:01			0	0	0	0	0	0.001	0.011	
10/23/2018 13:02			0	0	0	0	0	0.001	0.011	
10/23/2018 13:03			0	0	0	0	0	0.001	0.011	
10/23/2018 13:04			0	0	0	0	0	0.001	0.011	
10/23/2018 13:05	12.6	84	0	0	0	0	0	0.002	0.011	
10/23/2018 13:05										42.43195;-76.49841
10/23/2018 13:06			0	0	0	0	0	0.002	0.011	
10/23/2018 13:07			0	0	0	0	0	0.002	0.011	
10/23/2018 13:08			0	0	0	0	0	0.002	0.01	
10/23/2018 13:09			0	0	0	0	0	0.002	0.011	
10/23/2018 13:10	12.6	73.9	0	0	0	0	0	0.002	0.011	
10/23/2018 13:10										42.43206;-76.49844
10/23/2018 13:11			0	0	0	0	0	0.002	0.011	
10/23/2018 13:12			0	0	0	0	0	0.002	0.011	
10/23/2018 13:13			0	0	0	0	0	0.002	0.011	
10/23/2018 13:14			0	0	0	0	0	0.002	0.011	
10/23/2018 13:15	12.6	79	0	0	0	0	0	0.002	0.011	
10/23/2018 13:15										42.4319;-76.49842
10/23/2018 13:16			0	0	0	0	0	0.002	0.011	
10/23/2018 13:17			0	0	0	0	0	0.002	0.011	
10/23/2018 13:18			0	0	0	0	0	0.002	0.011	
10/23/2018 13:19			0	0	0	0	0	0.002	0.011	
10/23/2018 13:20	12.6	70.9	0	0	0	0	0	0.002	0.011	
10/23/2018 13:20										42.432;-76.49842
10/23/2018 13:21			0	0	0	0	0	0.002	0.011	
10/23/2018 13:22			0	0	0	0	0	0.002	0.011	
10/23/2018 13:23			0	0	0	0	0	0.002	0.011	
10/23/2018 13:24			0	0	0	0	0	0.002	0.011	
10/23/2018 13:25	12.5	75.9	0	0	0	0	0	0.002	0.011	
10/23/2018 13:25										42.43204;-76.49844
10/23/2018 13:26			0	0	0	0	0	0.002	0.011	
10/23/2018 13:27			0	0	0	0	0	0.002	0.011	
10/23/2018 13:28			0	0	0	0	0	0.002	0.011	
10/23/2018 13:29			0	0	0	0	0	0.002	0.011	
10/23/2018 13:30	12.6	77.9	0	0	0	0	0	0.002	0.01	
10/23/2018 13:30										42.43208;-76.49844
10/23/2018 13:31			0	0	0	0	0	0.002	0.011	
10/23/2018 13:32			0	0	0	0	0	0.002	0.012	
10/23/2018 13:33			0	0	0	0	0	0.002	0.012	
10/23/2018 13:34			0	0	0	0	0	0.002	0.014	
10/23/2018 13:35	12.5	70.9	0	0	0	0	0	0.002	0.016	
10/23/2018 13:35										42.4321;-76.49842
10/23/2018 13:36			0	0	0	0	0	0.002	0.013	
10/23/2018 13:37			0	0	0	0	0	0.002	0.01	
10/23/2018 13:38			0	0	0	0	0	0.002	0.01	
10/23/2018 13:39			0	0	0	0	0	0.002	0.01	
10/23/2018 13:40	12.5	74.9	0	0	0	0	0	0.002	0.01	
10/23/2018 13:40										42.43206;-76.49843
10/23/2018 13:41			0	0	0	0	0	0.002	0.01	
10/23/2018 13:42			0	0	0	0	0	0.002	0.011	
10/23/2018 13:43			0	0	0	0	0	0.002	0.01	
10/23/2018 13:44			0	0	0	0	0	0.002	0.01	
10/23/2018 13:45	12.5	81	0	0	0	0	0	0.002	0.01	
10/23/2018 13:45										42.43208;-76.49844
10/23/2018 13:46			0	0	0	0	0	0.002	0.01	
10/23/2018 13:47			0	0	0	0	0	0.002	0.01	
10/23/2018 13:48			0	0	0	0	0	0.002	0.01	
10/23/2018 13:49			0	0	0	0	0	0.003	0.012	
10/23/2018 13:50	12.5	77.9	0	0	0	0	0	0.003	0.011	
10/23/2018 13:50										42.43208;-76.49839
10/23/2018 13:51			0	0	0	0	0	0.003	0.011	
10/23/2018 13:52			0	0	0	0	0	0.003	0.011	
10/23/2018 13:53			0	0	0	0	0	0.003	0.011	
10/23/2018 13:54			0	0	0	0	0	0.003	0.011	
10/23/2018 13:55	12.5	72.9	0	0	0	0	0	0.003	0.014	
10/23/2018 13:55										42.43207;-76.4984

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/23/2018 13:56			0	0	0	0	0	0.003	0.014	
10/23/2018 13:57			0	0	0	0	0	0.003	0.012	
10/23/2018 13:58			0	0	0	0	0	0.003	0.01	
10/23/2018 13:59			0	0	0	0	0	0.003	0.01	
10/23/2018 14:00	12.5	70.9	0	0	0	0	0	0.003	0.01	
10/23/2018 14:00										42.43204;-76.49837
10/23/2018 14:01			0	0	0	0	0	0.003	0.01	
10/23/2018 14:02			0	0	0	0	0	0.003	0.01	
10/23/2018 14:03			0	0	0	0	0	0.003	0.012	
10/23/2018 14:04			0	0	0	0	0	0.003	0.014	
10/23/2018 14:05	12.5	70.9	0	0	0	0	0	0.003	0.02	
10/23/2018 14:05										42.43205;-76.49843
10/23/2018 14:06			0	0	0	0	0	0.003	0.011	
10/23/2018 14:07			0	0	0	0	0	0.003	0.012	
10/23/2018 14:08			0	0	0	0	0	0.003	0.012	
10/23/2018 14:09			0	0	0	0	0	0.003	0.011	
10/23/2018 14:10	12.5	72.9	0	0	0	0	0	0.003	0.01	
10/23/2018 14:10										42.43206;-76.49842
10/23/2018 14:11			0	0	0	0	0	0.003	0.011	
10/23/2018 14:12			0	0	0	0	0	0.003	0.01	
10/23/2018 14:13			0	0	0	0	0	0.003	0.009	
10/23/2018 14:14			0	0	0	0	0	0.003	0.009	
10/23/2018 14:15	12.5	70.9	0	0	0	0	0	0.003	0.01	
10/23/2018 14:15										42.43208;-76.49842
10/23/2018 14:16			0	0	0	0	0	0.003	0.009	
10/23/2018 14:17			0	0	0	0	0	0.003	0.01	
10/23/2018 14:18			0	0	0	0	0	0.003	0.011	
10/23/2018 14:19			0	0	0	0	0	0.003	0.01	
10/23/2018 14:20	12.5	77.9	0	0	0	0	0	0.003	0.01	
10/23/2018 14:20										42.43208;-76.49843
10/23/2018 14:21			0	0	0	0	0	0.003	0.01	
10/23/2018 14:22			0	0	0	0	0	0.003	0.01	
10/23/2018 14:23			0	0	0	0	0	0.003	0.01	
10/23/2018 14:24			0	0	0	0	0	0.003	0.01	
10/23/2018 14:25	12.5	75.9	0	0	0	0	0	0.003	0.01	
10/23/2018 14:25										42.4321;-76.49854
10/23/2018 14:26			0	0	0	0	0	0.003	0.01	
10/23/2018 14:27			0	0	0	0	0	0.003	0.011	
10/23/2018 14:28			0	0	0	0	0	0.003	0.01	
10/23/2018 14:29			0	0	0	0	0	0.003	0.01	
10/23/2018 14:30	12.5	71.9	0	0	0	0	0	0.003	0.01	
10/23/2018 14:30										42.43212;-76.49846
10/23/2018 14:31			0	0	0	0	0	0.003	0.01	
10/23/2018 14:32			0	0	0	0	0	0.003	0.01	
10/23/2018 14:33			0	0	0	0	0	0.004	0.01	
10/23/2018 14:34			0	0	0	0	0	0.004	0.01	
10/23/2018 14:35	12.5	72.9	0	0	0	0	0	0.004	0.01	
10/23/2018 14:35										42.43217;-76.49845
10/23/2018 14:36			0	0.001	0	0	0.001	0.004	0.01	
10/23/2018 14:37			0	0.002	0	0	0.001	0.004	0.01	
10/23/2018 14:38			0	0.006	0	0	0.004	0.004	0.01	
10/23/2018 14:39			0	0.007	0	0	0.006	0.004	0.01	
10/23/2018 14:40	12.5	71.9	0	0.009	0	0	0.004	0.004	0.01	
10/23/2018 14:40										42.43218;-76.49848
10/23/2018 14:41			0	0.009	0	0	0.004	0.004	0.011	
10/23/2018 14:42			0	0.009	0	0	0.003	0.004	0.011	
10/23/2018 14:43			0	0.009	0	0	0.005	0.004	0.01	
10/23/2018 14:44			0	0.009	0.001	0	0.005	0.004	0.01	
10/23/2018 14:45	12.5	72.9	0	0.01	0.001	0	0.01	0.004	0.011	
10/23/2018 14:45										42.43215;-76.49844
10/23/2018 14:46			0	0.011	0.001	0	0.005	0.004	0.011	
10/23/2018 14:47			0	0.011	0.002	0	0.004	0.004	0.01	
10/23/2018 14:48			0	0.011	0.002	0	0.006	0.004	0.01	
10/23/2018 14:49			0	0.013	0.003	0	0.006	0.004	0.01	
10/23/2018 14:50	12.5	73.9	0	0.014	0.003	0	0.011	0.004	0.01	
10/23/2018 14:50										42.43216;-76.49843
10/23/2018 14:51			0	0.016	0.004	0	0.008	0.004	0.01	
10/23/2018 14:52			0	0.016	0.005	0	0.01	0.004	0.01	
10/23/2018 14:53			0	0.016	0.005	0	0.015	0.004	0.01	
10/23/2018 14:54			0	0.02	0.006	0	0.014	0.004	0.012	
10/23/2018 14:55	12.5	73.9	0	0.02	0.007	0	0.016	0.004	0.01	
10/23/2018 14:55										42.43206;-76.49825
10/23/2018 14:56			0	0.02	0.007	0	0.012	0.004	0.01	
10/23/2018 14:57			0	0.02	0.008	0	0.015	0.004	0.011	
10/23/2018 14:58			0	0.021	0.009	0	0.018	0.004	0.01	
10/23/2018 14:59			0	0.021	0.01	0	0.018	0.004	0.01	
10/23/2018 15:00	12.5	81	0	0.024	0.011	0	0.016	0.004	0.01	
10/23/2018 15:00										42.4321;-76.49832
10/23/2018 15:01			0	0.024	0.011	0	0.021	0.004	0.01	
10/23/2018 15:02			0	0.024	0.012	0	0.02	0.004	0.01	
10/23/2018 15:03			0	0.025	0.013	0	0.02	0.004	0.01	
10/23/2018 15:04			0	0.025	0.014	0	0.023	0.004	0.01	
10/23/2018 15:05	12.5	72.9	0	0.026	0.015	0	0.025	0.004	0.01	
10/23/2018 15:05										42.43216;-76.49837
10/23/2018 15:06			0	0.026	0.016	0	0.023	0.004	0.01	
10/23/2018 15:07			0	0.028	0.017	0	0.024	0.004	0.011	
10/23/2018 15:08			0	0.028	0.018	0	0.024	0.004	0.01	
10/23/2018 15:09			0	0.029	0.018	0	0.027	0.004	0.01	
10/23/2018 15:10	12.5	72.9	0	0.031	0.019	0	0.027	0.004	0.01	
10/23/2018 15:10										42.43209;-76.49836
10/23/2018 15:11			0	0.031	0.02	0	0.031	0.004	0.01	
10/23/2018 15:12			0	0.032	0.021	0	0.026	0.004	0.01	
10/23/2018 15:13			0	0.034	0.022	0.001	0.031	0.004	0.01	
10/23/2018 15:14			0	0.034	0.023	0.001	0.028	0.004	0.01	
10/23/2018 15:15	12.5	74.9	0	0.034	0.024	0.001	0.03	0.004	0.01	
10/23/2018 15:15										42.43211;-76.49835
10/23/2018 15:16			0	0.034	0.024	0.001	0.032	0.004	0.01	
10/23/2018 15:17			0	0.034	0.025	0.001	0.029	0.004	0.011	
10/23/2018 15:18			0	0.034	0.025	0.001	0.029	0.004	0.011	
10/23/2018 15:19			0	0.034	0.026	0.001	0.028	0.005	0.011	
10/23/2018 15:20	12.5	83	0	0.034	0.027	0.001	0.03	0.005	0.012	
10/23/2018 15:20										42.43224;-76.49831
10/23/2018 15:21			0	0.037	0.027	0.001	0.031	0.005	0.012	
10/23/2018 15:22			0	0.037	0.028	0.001	0.032	0.005	0.011	
10/23/2018 15:23			0	0.037	0.028	0.001	0.032	0.005	0.011	
10/23/2018 15:24			0	0.037	0.029	0.001	0.032	0.005	0.012	
10/23/2018 15:25	12.5	72.9	0	0.037	0.029	0.001	0.032	0.005	0.012	
10/23/2018 15:25										42.43218;-76.4983
10/23/2018 15:26			0	0.037	0.029	0.001	0.035	0.005	0.012	

Community Air Monitoring Program - Downwind Station
October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/23/2018 15:27			0	0.037	0.03	0.001	0.031	0.005	0.012	
10/23/2018 15:28			0	0.038	0.03	0.001	0.033	0.005	0.012	
10/23/2018 15:29			0	0.04	0.03	0.002	0.037	0.005	0.012	
10/23/2018 15:30	12.4	77.9	0	0.042	0.031	0.002	0.038	0.005	0.013	
10/23/2018 15:30										42.43214;-76.49836
10/23/2018 15:31			0	0.043	0.032	0.002	0.041	0.005	0.012	
10/23/2018 15:32			0	0.045	0.032	0.002	0.042	0.005	0.012	
10/23/2018 15:33			0	0.045	0.033	0.002	0.041	0.005	0.013	
10/23/2018 15:34			0	0.045	0.034	0.002	0.039	0.005	0.013	
10/23/2018 15:35	12.4	92.1	0	0.045	0.035	0.002	0.037	0.005	0.013	
10/23/2018 15:35										42.43215;-76.49834
10/23/2018 15:36			0	0.046	0.035	0.002	0.044	0.005	0.013	
10/23/2018 15:37			0	0.048	0.036	0.002	0.045	0.005	0.016	
10/23/2018 15:38			0	0.05	0.037	0.002	0.049	0.005	0.012	
10/23/2018 15:39			0	0.05	0.038	0.002	0.048	0.005	0.012	
10/23/2018 15:40	12.4	75.9	0	0.05	0.038	0.002	0.047	0.005	0.012	
10/23/2018 15:40										42.43243;-76.49828
10/23/2018 15:41			0	0.05	0.039	0.003	0.048	0.005	0.012	
10/23/2018 15:42			0	0.052	0.04	0.003	0.048	0.005	0.012	
10/23/2018 15:43			0	0.052	0.041	0.003	0.047	0.005	0.012	
10/23/2018 15:44			0	0.052	0.042	0.003	0.052	0.005	0.013	
10/23/2018 15:45	12.4	81	0	0.055	0.043	0.003	0.052	0.005	0.013	
10/23/2018 15:45										42.43195;-76.49834
10/23/2018 15:46			0	0.055	0.044	0.003	0.051	0.005	0.013	
10/23/2018 15:47			0	0.055	0.044	0.003	0.046	0.005	0.013	
10/23/2018 15:48			0	0.055	0.045	0.003	0.052	0.005	0.014	
10/23/2018 15:49			0	0.056	0.045	0.003	0.05	0.005	0.013	
10/23/2018 15:50	12.4	108.3	0	0.056	0.046	0.003	0.051	0.005	0.013	
10/23/2018 15:50										42.43223;-76.49824
10/23/2018 15:51			0	0.056	0.047	0.004	0.05	0.005	0.013	
10/23/2018 15:52			0	0.056	0.047	0.004	0.05	0.005	0.014	
10/23/2018 15:53			0	0.056	0.048	0.004	0.048	0.005	0.013	
10/23/2018 15:54			0	0.056	0.048	0.004	0.05	0.005	0.013	
10/23/2018 15:55	12.4	81	0	0.057	0.049	0.004	0.054	0.005	0.012	
10/23/2018 15:55										42.43245;-76.49812
10/23/2018 15:56			0	0.057	0.049	0.004	0.053	0.005	0.013	
10/23/2018 15:57			0	0.06	0.05	0.004	0.056	0.006	0.013	
10/23/2018 15:58			0	0.06	0.05	0.004	0.056	0.006	0.014	
10/23/2018 15:59			0	0.06	0.051	0.004	0.056	0.006	0.014	
10/23/2018 16:00	12.4	72.9	0	0.06	0.051	0.005	0.054	0.006	0.013	
10/23/2018 16:00										42.43269;-76.49802
10/23/2018 16:01			0	0.06	0.051	0.005	0.06	0.006	0.013	
10/23/2018 16:02			0	0.061	0.052	0.005	0.055	0.006	0.014	
10/23/2018 16:03			0	0.061	0.052	0.005	0.057	0.006	0.013	
10/23/2018 16:04			0	0.062	0.053	0.005	0.06	0.006	0.013	
10/23/2018 16:05	12.4	76.9	0	0.062	0.053	0.005	0.061	0.006	0.014	
10/23/2018 16:05										42.43227;-76.4982
10/23/2018 16:06			0	0.063	0.054	0.005	0.063	0.006	0.013	
10/23/2018 16:07			0	0.063	0.055	0.005	0.062	0.006	0.013	
10/23/2018 16:08			0	0.066	0.055	0.006	0.063	0.006	0.012	
10/23/2018 16:09			0	0.068	0.056	0.006	0.065	0.006	0.012	
10/23/2018 16:10	12.4	108.3	0	0.068	0.057	0.006	0.066	0.006	0.013	
10/23/2018 16:10										42.43227;-76.49821
10/23/2018 16:11			0	0.071	0.058	0.006	0.069	0.006	0.012	
10/23/2018 16:12			0	0.072	0.059	0.006	0.068	0.006	0.012	
10/23/2018 16:13			0	0.073	0.06	0.006	0.071	0.006	0.012	
10/23/2018 16:14			0	0.074	0.06	0.006	0.072	0.006	0.012	
10/23/2018 16:15	12.4	73.9	0	0.074	0.062	0.007	0.069	0.006	0.012	
10/23/2018 16:15										42.43223;-76.49841
10/23/2018 16:16			0	0.074	0.063	0.007	0.07	0.006	0.017	
10/23/2018 16:17			0	0.074	0.063	0.007	0.067	0.006	0.012	
10/23/2018 16:18			0	0.074	0.064	0.007	0.07	0.006	0.012	
10/23/2018 16:19			0	0.074	0.065	0.007	0.067	0.006	0.012	
10/23/2018 16:20	12.4	77.9	0	0.074	0.065	0.007	0.072	0.006	0.012	
10/23/2018 16:20										42.43227;-76.49843
10/23/2018 16:21			0	0.075	0.066	0.007	0.073	0.006	0.012	
10/23/2018 16:22			0	0.075	0.067	0.008	0.07	0.006	0.013	
10/23/2018 16:23			0	0.075	0.068	0.008	0.07	0.006	0.012	
10/23/2018 16:24			0	0.075	0.068	0.008	0.071	0.006	0.012	
10/23/2018 16:25	12.4	80	0	0.075	0.069	0.008	0.073	0.006	0.011	
10/23/2018 16:25										42.43235;-76.49858
10/23/2018 16:26			0	0.075	0.069	0.008	0.066	0.006	0.013	
10/23/2018 16:27			0	0.075	0.069	0.008	0.07	0.006	0.011	
10/23/2018 16:28			0	0.075	0.069	0.008	0.071	0.006	0.011	
10/23/2018 16:29			0	0.077	0.069	0.009	0.075	0.006	0.011	
10/23/2018 16:30	12.4	79	0	0.077	0.07	0.009	0.071	0.006	0.012	
10/23/2018 16:30										42.43223;-76.49846
10/23/2018 16:31			0	0.077	0.07	0.009	0.072	0.006	0.011	
10/23/2018 16:32			0	0.077	0.07	0.009	0.071	0.006	0.011	
10/23/2018 16:33			0	0.077	0.07	0.009	0.071	0.006	0.011	
10/23/2018 16:34			0	0.077	0.07	0.009	0.071	0.006	0.011	
10/23/2018 16:35	12.4	74.9	0	0.077	0.07	0.009	0.076	0.006	0.011	
10/23/2018 16:35										42.43217;-76.49839
10/23/2018 16:36			0	0.078	0.071	0.01	0.074	0.007	0.011	
10/23/2018 16:37			0	0.081	0.071	0.01	0.078	0.007	0.011	
10/23/2018 16:38			0	0.081	0.071	0.01	0.072	0.007	0.01	
10/23/2018 16:39			0	0.081	0.072	0.01	0.075	0.007	0.011	
10/23/2018 16:40	12.4	79	0	0.082	0.072	0.01	0.079	0.007	0.012	
10/23/2018 16:40										42.43224;-76.49839
10/23/2018 16:41			0	0.084	0.073	0.01	0.08	0.007	0.013	
10/23/2018 16:42			0	0.084	0.073	0.011	0.079	0.007	0.012	
10/23/2018 16:43			0	0.084	0.074	0.011	0.081	0.007	0.011	
10/23/2018 16:44			0	0.084	0.074	0.011	0.081	0.007	0.011	
10/23/2018 16:45	12.4	80	0	0.087	0.075	0.011	0.083	0.007	0.011	
10/23/2018 16:45										42.43217;-76.49842
10/23/2018 16:46			0	0.087	0.076	0.011	0.085	0.007	0.011	
10/23/2018 16:47			0	0.087	0.077	0.011	0.084	0.007	0.01	
10/23/2018 16:48			0	0.088	0.077	0.012	0.085	0.007	0.011	
10/23/2018 16:49			0	0.091	0.078	0.012	0.09	0.007	0.011	
10/23/2018 16:50	12.4	73.9	0	0.091	0.079	0.012	0.085	0.007	0.01	
10/23/2018 16:50										42.4321;-76.49841
10/23/2018 16:51			0	0.091	0.08	0.012	0.087	0.007	0.011	
10/23/2018 16:52			0	0.091	0.081	0.012	0.087	0.007	0.01	
10/23/2018 16:53			0	0.091	0.081	0.012	0.083	0.007	0.011	
10/23/2018 16:54			0	0.091	0.082	0.013	0.081	0.007	0.011	
10/23/2018 16:55	12.4	79	0	0.091	0.083	0.013	0.087	0.007	0.01	
10/23/2018 16:55										42.43206;-76.49831
10/23/2018 16:56			0	0.091	0.083	0.013	0.089	0.007	0.01	
10/23/2018 16:57			0	0.091	0.083	0.013	0.087	0.007	0.011	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/23/2018 16:58			0	0.093	0.084	0.013	0.086	0.007	0.011	
10/23/2018 16:59			0	0.093	0.084	0.014	0.091	0.007	0.013	
10/23/2018 17:00	12.4	74.9	0	0.093	0.085	0.014	0.087	0.007	0.011	
10/23/2018 17:00										42.43211;-76.49836
10/23/2018 17:01			0	0.093	0.085	0.014	0.085	0.007	0.011	
10/23/2018 17:02			0	0.093	0.085	0.014	0.088	0.007	0.011	
10/23/2018 17:03			0	0.093	0.086	0.014	0.087	0.007	0.011	
10/23/2018 17:04			0	0.093	0.086	0.014	0.089	0.007	0.011	
10/23/2018 17:05	12.4	71.9	0	0.093	0.086	0.015	0.09	0.007	0.011	
10/23/2018 17:05										42.43221;-76.49855
10/23/2018 17:06			0	0.093	0.086	0.015	0.09	0.007	0.011	
10/23/2018 17:07			0	0.097	0.086	0.015	0.091	0.007	0.011	
10/23/2018 17:08			0	0.097	0.087	0.015	0.093	0.007	0.01	
10/23/2018 17:09			0	0.097	0.087	0.015	0.093	0.007	0.01	
10/23/2018 17:10	12.3	73.9	0	0.097	0.088	0.016	0.093	0.007	0.01	
10/23/2018 17:10										42.43219;-76.49848
10/23/2018 17:11			0	0.097	0.089	0.016	0.093	0.007	0.01	
10/23/2018 17:12			0	0.097	0.089	0.016	0.093	0.007	0.01	
10/23/2018 17:13			0	0.097	0.089	0.016	0.092	0.007	0.014	
10/23/2018 17:14			0	0.097	0.09	0.016	0.097	0.007	0.014	
10/23/2018 17:15	12.3	74.9	0	0.099	0.09	0.017	0.094	0.007	0.01	
10/23/2018 17:15										42.4322;-76.4985
10/23/2018 17:16			0	0.099	0.09	0.017	0.095	0.007	0.01	
10/23/2018 17:17			0	0.099	0.091	0.017	0.094	0.007	0.01	
10/23/2018 17:18			0	0.099	0.091	0.017	0.095	0.007	0.012	
10/23/2018 17:19			0	0.099	0.092	0.017	0.096	0.007	0.013	
10/23/2018 17:20	12.3	73.9	0	0.099	0.092	0.018	0.097	0.008	0.026	
10/23/2018 17:20										42.43222;-76.4985
10/23/2018 17:21			0	0.101	0.093	0.018	0.095	0.008	0.012	
10/23/2018 17:22			0	0.101	0.093	0.018	0.093	0.008	0.012	
10/23/2018 17:23			0	0.101	0.093	0.018	0.094	0.008	0.013	
10/23/2018 17:24			0	0.101	0.093	0.018	0.091	0.008	0.011	
10/23/2018 17:25	12.3	89.1	0	0.101	0.093	0.019	0.092	0.008	0.011	
10/23/2018 17:25										42.43223;-76.49848
10/23/2018 17:26			0	0.101	0.093	0.019	0.095	0.008	0.011	
10/23/2018 17:27			0	0.101	0.093	0.019	0.093	0.008	0.013	
10/23/2018 17:28			0	0.101	0.093	0.019	0.09	0.008	0.011	
10/23/2018 17:29			0	0.101	0.093	0.019	0.086	0.008	0.013	
10/23/2018 17:30	12.3	95.1	0	0.101	0.093	0.019	0.091	0.008	0.035	
10/23/2018 17:30										42.43217;-76.49845
10/23/2018 17:31			0	0.101	0.092	0.02	0.091	0.008	0.01	
10/23/2018 17:32			0	0.101	0.092	0.02	0.089	0.008	0.01	
10/23/2018 17:33			0	0.101	0.092	0.02	0.086	0.008	0.01	
10/23/2018 17:34			0	0.101	0.091	0.02	0.085	0.008	0.011	
10/23/2018 17:35	12.3	74.9	0	0.101	0.091	0.02	0.087	0.008	0.011	
10/23/2018 17:35										42.43227;-76.4985
10/23/2018 17:36			0	0.101	0.09	0.021	0.085	0.008	0.012	
10/23/2018 17:37			0	0.101	0.089	0.021	0.085	0.008	0.011	
10/23/2018 17:38			0	0.101	0.089	0.021	0.081	0.008	0.01	
10/23/2018 17:39			0	0.101	0.088	0.021	0.081	0.008	0.01	
10/23/2018 17:40	12.3	72.9	0	0.101	0.087	0.021	0.081	0.008	0.01	
10/23/2018 17:40										42.4321;-76.49837
10/23/2018 17:41			0	0.101	0.086	0.021	0.077	0.008	0.011	
10/23/2018 17:42			0	0.101	0.085	0.022	0.078	0.008	0.01	
10/23/2018 17:43			0	0.101	0.084	0.022	0.078	0.008	0.01	
10/23/2018 17:44			0	0.101	0.083	0.022	0.076	0.008	0.01	
10/23/2018 17:45	12.3	73.9	0	0.101	0.082	0.022	0.074	0.008	0.01	
10/23/2018 17:45										42.43203;-76.49834
10/23/2018 17:46			0	0.101	0.081	0.022	0.075	0.008	0.01	
10/23/2018 17:47			0	0.101	0.08	0.022	0.075	0.008	0.011	
10/23/2018 17:48			0	0.101	0.079	0.023	0.073	0.008	0.012	
10/23/2018 17:49			0	0.101	0.079	0.023	0.072	0.008	0.012	
10/23/2018 17:50	12.3	73.9	0	0.101	0.078	0.023	0.074	0.008	0.015	
10/23/2018 17:50										42.43213;-76.49836
10/23/2018 17:51			0	0.101	0.077	0.023	0.07	0.008	0.012	
10/23/2018 17:52			0	0.101	0.076	0.023	0.068	0.008	0.011	
10/23/2018 17:53			0	0.101	0.075	0.023	0.067	0.008	0.01	
10/23/2018 17:54			0	0.101	0.074	0.023	0.064	0.008	0.01	
10/23/2018 17:55	12.3	80	0	0.101	0.073	0.024	0.068	0.008	0.009	
10/23/2018 17:55										42.43211;-76.49832
10/23/2018 17:56			0	0.101	0.072	0.024	0.065	0.008	0.009	
10/23/2018 17:57			0	0.101	0.071	0.024	0.067	0.008	0.008	
10/23/2018 17:58			0	0.101	0.07	0.024	0.065	0.008	0.009	
10/23/2018 17:59			0	0.101	0.07	0.024	0.061	0.008	0.009	
10/23/2018 18:00	12.3	73.9	0	0.101	0.069	0.024	0.062	0.008	0.009	
10/23/2018 18:00										42.4322;-76.49854
10/23/2018 18:01			0	0.101	0.068	0.024	0.064	0.009	0.009	
10/23/2018 18:02			0	0.101	0.067	0.024	0.06	0.009	0.009	
10/23/2018 18:03			0	0.101	0.066	0.025	0.06	0.009	0.009	
10/23/2018 18:04			0	0.101	0.065	0.025	0.058	0.009	0.009	
10/23/2018 18:05	12.3	74.9	0	0.101	0.064	0.025	0.06	0.009	0.009	
10/23/2018 18:05										42.43208;-76.49833
10/23/2018 18:06			0	0.101	0.063	0.025	0.057	0.009	0.009	
10/23/2018 18:07			0	0.101	0.062	0.025	0.056	0.009	0.009	
10/23/2018 18:08			0	0.101	0.061	0.025	0.053	0.009	0.009	
10/23/2018 18:09			0	0.101	0.06	0.025	0.056	0.009	0.008	
10/23/2018 18:10	12.3	72.9	0	0.101	0.06	0.025	0.051	0.009	0.009	
10/23/2018 18:10										42.43212;-76.49837
10/23/2018 18:11			0	0.101	0.059	0.026	0.051	0.009	0.008	
10/23/2018 18:12			0	0.101	0.058	0.026	0.051	0.009	0.009	
10/23/2018 18:13			0	0.101	0.057	0.026	0.049	0.009	0.009	
10/23/2018 18:14			0	0.101	0.056	0.026	0.051	0.009	0.009	
10/23/2018 18:15	12.3	74.9	0	0.101	0.055	0.026	0.052	0.009	0.009	
10/23/2018 18:15										42.43214;-76.49841
10/23/2018 18:16			0	0.101	0.054	0.026	0.056	0.009	0.009	
10/23/2018 18:17			0	0.101	0.054	0.026	0.052	0.009	0.009	
10/23/2018 18:18			0	0.101	0.053	0.026	0.054	0.009	0.01	
10/23/2018 18:19			0	0.101	0.053	0.026	0.052	0.009	0.01	
10/23/2018 18:20	12.2	73.9	0	0.101	0.052	0.027	0.049	0.009	0.01	
10/23/2018 18:20										42.43213;-76.49837
10/23/2018 18:21			0	0.101	0.052	0.027	0.051	0.009	0.01	
10/23/2018 18:22			0	0.101	0.051	0.027	0.048	0.009	0.009	
10/23/2018 18:23			0	0.101	0.051	0.027	0.052	0.009	0.009	
10/23/2018 18:24			0	0.101	0.051	0.027	0.047	0.009	0.009	
10/23/2018 18:25	12.2	73.9	0	0.101	0.05	0.027	0.048	0.009	0.009	
10/23/2018 18:25										42.43213;-76.49837
10/23/2018 18:26			0	0.101	0.05	0.027	0.051	0.009	0.009	
10/23/2018 18:27			0	0.101	0.05	0.027	0.049	0.009	0.009	
10/23/2018 18:28			0	0.101	0.05	0.027	0.05	0.009	0.009	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/23/2018 18:29			0	0.101	0.05	0.027	0.052	0.009	0.008	
10/23/2018 18:30	12.3	80	0	0.101	0.05	0.028	0.05	0.009	0.009	
10/23/2018 18:30										42.43211;-76.49838
10/23/2018 18:31			0	0.101	0.05	0.028	0.052	0.009	0.009	
10/23/2018 18:32			0	0.101	0.05	0.028	0.055	0.009	0.009	
10/23/2018 18:33			0	0.101	0.05	0.028	0.05	0.009	0.009	
10/23/2018 18:34			0	0.101	0.05	0.028	0.052	0.009	0.008	
10/23/2018 18:35	12.2	84	0	0.101	0.05	0.028	0.051	0.009	0.008	
10/23/2018 18:35										42.43219;-76.49837
10/23/2018 18:36			0	0.101	0.05	0.028	0.055	0.009	0.009	
10/23/2018 18:37			0	0.101	0.05	0.028	0.051	0.009	0.008	
10/23/2018 18:38			0	0.101	0.051	0.028	0.056	0.009	0.008	
10/23/2018 18:39			0	0.101	0.051	0.029	0.058	0.009	0.009	
10/23/2018 18:40	12.2	89.1	0	0.101	0.051	0.029	0.058	0.009	0.008	
10/23/2018 18:40										42.43219;-76.4984
10/23/2018 18:41			0	0.101	0.052	0.029	0.063	0.009	0.008	
10/23/2018 18:42			0	0.101	0.052	0.029	0.059	0.009	0.008	
10/23/2018 18:43			0	0.101	0.053	0.029	0.059	0.009	0.008	
10/23/2018 18:44			0	0.101	0.054	0.029	0.06	0.009	0.008	
10/23/2018 18:45	12.2	74.9	0	0.101	0.054	0.029	0.059	0.009	0.008	
10/23/2018 18:45										42.43216;-76.49836
10/23/2018 18:46			0	0.101	0.055	0.029	0.061	0.009	0.008	
10/23/2018 18:47			0	0.101	0.055	0.029	0.057	0.009	0.008	
10/23/2018 18:48			0	0.101	0.056	0.03	0.059	0.009	0.008	
10/23/2018 18:49			0	0.101	0.056	0.03	0.061	0.009	0.008	
10/23/2018 18:50	12.2	74.9	0	0.101	0.056	0.03	0.056	0.009	0.008	
10/23/2018 18:50										42.4325;-76.49847
10/23/2018 18:51			0	0.101	0.057	0.03	0.06	0.009	0.008	
10/23/2018 18:52			0	0.101	0.057	0.03	0.055	0.009	0.009	
10/23/2018 18:53			0	0.101	0.058	0.03	0.059	0.009	0.008	
10/23/2018 18:54			0	0.101	0.058	0.03	0.056	0.009	0.008	
10/23/2018 18:55	12.2	74.9	0	0.101	0.058	0.03	0.061	0.009	0.008	
10/23/2018 18:55										42.43233;-76.49839
10/23/2018 18:56			0	0.101	0.058	0.031	0.058	0.01	0.009	
10/23/2018 18:57			0	0.101	0.058	0.031	0.055	0.01	0.009	
10/23/2018 18:58			0	0.101	0.058	0.031	0.057	0.01	0.008	
10/23/2018 18:59			0	0.101	0.058	0.031	0.059	0.01	0.008	
10/23/2018 19:00	12.2	77.9	0	0.101	0.058	0.031	0.06	0.01	0.009	
10/23/2018 19:00										42.43199;-76.49831
10/23/2018 19:01			0	0.101	0.058	0.031	0.061	0.01	0.008	
10/23/2018 19:02			0	0.101	0.058	0.031	0.062	0.01	0.009	
10/23/2018 19:03			0	0.101	0.058	0.031	0.064	0.01	0.009	
10/23/2018 19:04			0	0.101	0.058	0.032	0.065	0.01	0.008	
10/23/2018 19:05	12.2	74.9	0	0.101	0.058	0.032	0.064	0.01	0.008	
10/23/2018 19:05										42.43242;-76.49846
10/23/2018 19:06			0	0.101	0.059	0.032	0.063	0.01	0.008	
10/23/2018 19:07			0	0.101	0.059	0.032	0.064	0.01	0.008	
10/23/2018 19:08			0	0.101	0.059	0.032	0.063	0.01	0.008	
10/23/2018 19:09			0	0.101	0.059	0.032	0.061	0.01	0.008	
10/23/2018 19:10	12.2	75.9	0	0.101	0.06	0.032	0.057	0.01	0.008	
10/23/2018 19:10										42.43219;-76.4984
10/23/2018 19:11			0	0.101	0.06	0.032	0.062	0.01	0.008	
10/23/2018 19:12			0	0.101	0.06	0.033	0.063	0.01	0.008	
10/23/2018 19:13			0	0.101	0.06	0.033	0.058	0.01	0.008	
10/23/2018 19:14			0	0.101	0.06	0.033	0.062	0.01	0.008	
10/23/2018 19:15	12.2	74.9	0	0.101	0.06	0.033	0.061	0.01	0.008	
10/23/2018 19:15										42.43223;-76.49835
10/23/2018 19:16			0	0.101	0.061	0.033	0.06	0.01	0.009	
10/23/2018 19:17			0	0.101	0.061	0.033	0.062	0.01	0.008	
10/23/2018 19:18			0	0.101	0.061	0.033	0.06	0.01	0.008	
10/23/2018 19:19			0	0.101	0.061	0.033	0.062	0.01	0.008	
10/23/2018 19:20	12.2	74.9	0	0.101	0.061	0.034	0.06	0.01	0.009	
10/23/2018 19:20										42.43215;-76.49833
10/23/2018 19:21			0	0.101	0.06	0.034	0.059	0.01	0.009	
10/23/2018 19:22			0	0.101	0.06	0.034	0.061	0.01	0.009	
10/23/2018 19:23			0	0.101	0.06	0.034	0.062	0.01	0.009	
10/23/2018 19:24			0	0.101	0.06	0.034	0.061	0.01	0.009	
10/23/2018 19:25	12.2	98.2	0	0.101	0.06	0.034	0.06	0.01	0.009	
10/23/2018 19:25										42.4322;-76.49837
10/23/2018 19:26			0	0.101	0.06	0.034	0.061	0.01	0.009	
10/23/2018 19:27			0	0.101	0.06	0.034	0.056	0.01	0.009	
10/23/2018 19:28			0	0.101	0.06	0.035	0.06	0.01	0.009	
10/23/2018 19:29			0	0.101	0.06	0.035	0.057	0.01	0.009	
10/23/2018 19:30	12.2	75.9	0	0.101	0.059	0.035	0.06	0.01	0.009	
10/23/2018 19:30										42.43225;-76.49839
10/23/2018 19:31			0	0.101	0.059	0.035	0.061	0.01	0.009	
10/23/2018 19:32			0	0.101	0.059	0.035	0.06	0.01	0.009	
10/23/2018 19:33			0	0.101	0.059	0.035	0.063	0.01	0.009	
10/23/2018 19:34			0	0.101	0.059	0.035	0.063	0.01	0.009	
10/23/2018 19:35	12.2	75.9	0	0.101	0.059	0.035	0.063	0.01	0.009	
10/23/2018 19:35										42.43217;-76.49841
10/23/2018 19:36			0	0.101	0.059	0.036	0.061	0.01	0.01	
10/23/2018 19:37			0	0.101	0.06	0.036	0.061	0.01	0.01	
10/23/2018 19:38			0	0.101	0.06	0.036	0.06	0.01	0.01	
10/23/2018 19:39			0	0.101	0.06	0.036	0.056	0.01	0.01	
10/23/2018 19:40	12.2	85	0	0.101	0.06	0.036	0.06	0.01	0.009	
10/23/2018 19:40										42.43222;-76.4984
10/23/2018 19:41			0	0.101	0.06	0.036	0.058	0.01	0.009	
10/23/2018 19:42			0	0.101	0.06	0.036	0.057	0.01	0.009	
10/23/2018 19:43			0	0.101	0.059	0.036	0.057	0.01	0.01	
10/23/2018 19:44			0	0.101	0.059	0.037	0.06	0.01	0.009	
10/23/2018 19:45	12.2	73.9	0	0.101	0.059	0.037	0.058	0.01	0.009	
10/23/2018 19:45										42.43206;-76.49829
10/23/2018 19:46			0	0.101	0.059	0.037	0.058	0.01	0.009	
10/23/2018 19:47			0	0.101	0.059	0.037	0.058	0.01	0.01	
10/23/2018 19:48			0	0.101	0.059	0.037	0.059	0.01	0.009	
10/23/2018 19:49			0	0.101	0.059	0.037	0.065	0.01	0.009	
10/23/2018 19:50	12.1	88.1	0	0.101	0.059	0.037	0.062	0.01	0.009	
10/23/2018 19:50										42.43219;-76.49839
10/23/2018 19:51			0	0.101	0.059	0.037	0.062	0.011	0.009	
10/23/2018 19:52			0	0.101	0.059	0.038	0.062	0.011	0.009	
10/23/2018 19:53			0	0.101	0.059	0.038	0.063	0.011	0.009	
10/23/2018 19:54			0	0.101	0.059	0.038	0.062	0.011	0.01	
10/23/2018 19:55	12.2	81	0	0.101	0.059	0.038	0.061	0.011	0.009	
10/23/2018 19:55										42.43223;-76.49842
10/23/2018 19:56			0	0.101	0.059	0.038	0.061	0.011	0.01	
10/23/2018 19:57			0	0.101	0.06	0.038	0.064	0.011	0.01	
10/23/2018 19:58			0	0.101	0.06	0.038	0.062	0.011	0.01	
10/23/2018 19:59			0	0.101	0.06	0.038	0.065	0.011	0.011	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/23/2018 20:00	12.2	85	0	0.101	0.06	0.039	0.065	0.011	0.01	
10/23/2018 20:00										42.4321;-76.49832
10/23/2018 20:01			0	0.101	0.061	0.039	0.064	0.011	0.01	
10/23/2018 20:02			0	0.101	0.061	0.039	0.064	0.011	0.01	
10/23/2018 20:03			0	0.101	0.061	0.039	0.063	0.011	0.01	
10/23/2018 20:04			0	0.101	0.062	0.039	0.065	0.011	0.01	
10/23/2018 20:05	12.1	84	0	0.101	0.062	0.039	0.067	0.011	0.01	
10/23/2018 20:05										42.43213;-76.49833
10/23/2018 20:06			0	0.101	0.062	0.039	0.062	0.011	0.01	
10/23/2018 20:07			0	0.101	0.062	0.04	0.068	0.011	0.01	
10/23/2018 20:08			0	0.101	0.062	0.04	0.064	0.011	0.01	
10/23/2018 20:09			0	0.101	0.063	0.04	0.063	0.011	0.01	
10/23/2018 20:10	12.1	90.1	0	0.101	0.063	0.04	0.065	0.011	0.01	
10/23/2018 20:10										42.43216;-76.49836
10/23/2018 20:11			0	0.101	0.063	0.04	0.062	0.011	0.01	
10/23/2018 20:12			0	0.101	0.063	0.04	0.067	0.011	0.01	
10/24/2018 12:19	12.9	94.1								
10/24/2018 12:19										42.4308392;-76.5038304
10/24/2018 12:20	12.8	69.8	0	0	0	0	0			42.42908;-76.50114
10/24/2018 12:21			0	0	0	0	0	0	0.006	
10/24/2018 12:22			0	0	0	0	0	0	0.005	
10/24/2018 12:23			0	0	0	0	0	0	0.005	
10/24/2018 12:24			0	0	0	0	0	0	0.005	
10/24/2018 12:25	12.7	70.9	0	0	0	0	0	0	0.005	42.42893;-76.50136
10/24/2018 12:26			0	0	0	0	0	0	0.005	
10/24/2018 12:27			0	0	0	0	0	0	0.005	
10/24/2018 12:28			0	0	0	0	0	0	0.005	
10/24/2018 12:29			0	0	0	0	0	0	0.005	
10/24/2018 12:30	12.7	73.9	0	0	0	0	0	0	0.006	42.42885;-76.50133
10/24/2018 12:31			0	0	0	0	0	0	0.005	
10/24/2018 12:32			0	0	0	0	0	0	0.005	
10/24/2018 12:33			0	0	0	0	0	0	0.005	
10/24/2018 12:34			0	0	0	0	0	0	0.005	
10/24/2018 12:35	12.7	70.9	0	0	0	0	0	0	0.005	42.42884;-76.50141
10/24/2018 12:36			0	0	0	0	0	0	0.005	
10/24/2018 12:37			0	0	0	0	0	0	0.005	
10/24/2018 12:38			0	0	0	0	0	0	0.005	
10/24/2018 12:39			0	0	0	0	0	0	0.005	
10/24/2018 12:40	12.7	72.9	0	0	0	0	0	0	0.005	42.42891;-76.50137
10/24/2018 12:41			0	0	0	0	0	0	0.005	
10/24/2018 12:42			0	0	0	0	0	0	0.005	
10/24/2018 12:43			0	0	0	0	0	0	0.005	
10/24/2018 12:44			0	0	0	0	0	0	0.005	
10/24/2018 12:45	12.7	71.9	0	0	0	0	0	0	0.005	42.42885;-76.50143
10/24/2018 12:46			0	0	0	0	0	0	0.005	
10/24/2018 12:47			0	0	0	0	0	0	0.005	
10/24/2018 12:48			0	0	0	0	0	0	0.005	
10/24/2018 12:49			0	0	0	0	0	0	0.004	
10/24/2018 12:50	12.7	70.9	0	0	0	0	0	0	0.004	42.42882;-76.50133
10/24/2018 12:51			0	0	0	0	0	0	0.004	
10/24/2018 12:52			0	0	0	0	0	0	0.004	
10/24/2018 12:53			0	0	0	0	0	0	0.004	
10/24/2018 12:54			0	0	0	0	0	0	0.004	
10/24/2018 12:55	12.7	71.9	0	0	0	0	0	0	0.004	42.42896;-76.50125
10/24/2018 12:56			0	0	0	0	0	0	0.004	
10/24/2018 12:57			0	0	0	0	0	0	0.004	
10/24/2018 12:58			0	0	0	0	0	0	0.004	
10/24/2018 12:59			0	0	0	0	0	0	0.004	
10/24/2018 13:00	12.7	72.9	0	0	0	0	0	0	0.004	42.42897;-76.50134
10/24/2018 13:01			0	0	0	0	0	0	0.004	
10/24/2018 13:02			0	0	0	0	0	0	0.004	
10/24/2018 13:03			0	0	0	0	0	0	0.004	
10/24/2018 13:04			0	0	0	0	0	0	0.004	
10/24/2018 13:05	12.7	71.9	0	0	0	0	0	0	0.004	42.42897;-76.50137
10/24/2018 13:06			0	0	0	0	0	0	0.004	
10/24/2018 13:07			0	0	0	0	0	0	0.004	
10/24/2018 13:08			0	0	0	0	0	0	0.004	
10/24/2018 13:09			0	0	0	0	0	0	0.004	
10/24/2018 13:10	12.7	69.8	0	0	0	0	0	0	0.004	42.429;-76.50134
10/24/2018 13:11			0	0	0	0	0	0	0.004	
10/24/2018 13:12			0	0	0	0	0	0	0.004	
10/24/2018 13:13			0	0	0	0	0	0	0.004	
10/24/2018 13:14			0	0	0	0	0	0	0.004	
10/24/2018 13:15	12.7	70.9	0	0	0	0	0	0.001	0.004	42.429;-76.50135
10/24/2018 13:16			0	0	0	0	0	0.001	0.004	
10/24/2018 13:17			0	0	0	0	0	0.001	0.004	
10/24/2018 13:18			0	0	0	0	0	0.001	0.004	
10/24/2018 13:19			0	0	0	0	0	0.001	0.004	
10/24/2018 13:20	12.7	71.9	0	0	0	0	0	0.001	0.004	42.42892;-76.50128
10/24/2018 13:21			0	0	0	0	0	0.001	0.004	
10/24/2018 13:22			0	0	0	0	0	0.001	0.004	
10/24/2018 13:23			0	0	0	0	0	0.001	0.004	
10/24/2018 13:24			0	0	0	0	0	0.001	0.004	
10/24/2018 13:25	12.7	70.9	0	0	0	0	0	0.001	0.004	42.4289;-76.5013
10/24/2018 13:26			0	0	0	0	0	0.001	0.004	
10/24/2018 13:27			0	0	0	0	0	0.001	0.004	
10/24/2018 13:28			0	0	0	0	0	0.001	0.004	
10/24/2018 13:29			0	0	0	0	0	0.001	0.004	
10/24/2018 13:30	12.7	82	0	0	0	0	0	0.001	0.004	42.42895;-76.5013
10/24/2018 13:31			0	0	0	0	0	0.001	0.004	
10/24/2018 13:32			0	0	0	0	0	0.001	0.004	
10/24/2018 13:33			0	0	0	0	0	0.001	0.004	
10/24/2018 13:34			0	0	0	0	0	0.001	0.004	
10/24/2018 13:35	12.7	72.9	0	0	0	0	0	0.001	0.004	42.42898;-76.5013
10/24/2018 13:36			0	0	0	0	0	0.001	0.004	
10/24/2018 13:37			0	0	0	0	0	0.001	0.005	
10/24/2018 13:38			0	0	0	0	0	0.001	0.005	
10/24/2018 13:39			0	0	0	0	0	0.001	0.004	
10/24/2018 13:40	12.7	71.9	0	0	0	0	0	0.001	0.004	42.42892;-76.50132
10/24/2018 13:41			0	0	0	0	0	0.001	0.004	
10/24/2018 13:42			0	0	0	0	0	0.001	0.004	
10/24/2018 13:43			0	0	0	0	0	0.001	0.003	
10/24/2018 13:44			0	0	0	0	0	0.001	0.003	
10/24/2018 13:45	12.7	70.9	0	0	0	0	0	0.001	0.003	42.42896;-76.50133
10/24/2018 13:46			0	0	0	0	0	0.001	0.003	
10/24/2018 13:47			0	0	0	0	0	0.001	0.004	
10/24/2018 13:48			0	0	0	0	0	0.001	0.003	
10/24/2018 13:49			0	0	0	0	0	0.001	0.005	
10/24/2018 13:50	12.7	81	0	0	0	0	0	0.001	0.004	42.42898;-76.50135

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/24/2018 13:51			0	0	0	0	0	0.001	0.005	
10/24/2018 13:52			0	0	0	0	0	0.001	0.004	
10/24/2018 13:53			0	0	0	0	0	0.001	0.006	
10/24/2018 13:54			0	0	0	0	0	0.001	0.004	
10/24/2018 13:55	12.7	72.9	0	0	0	0	0	0.001	0.004	42.429;-76.5013
10/24/2018 13:56			0	0	0	0	0	0.001	0.004	
10/24/2018 13:57			0	0	0	0	0	0.001	0.004	
10/24/2018 13:58			0	0	0	0	0	0.001	0.004	
10/24/2018 13:59			0	0	0	0	0	0.001	0.004	
10/24/2018 14:00	12.7	82	0	0	0	0	0	0.001	0.003	42.42896;-76.50134
10/24/2018 14:01			0	0	0	0	0	0.001	0.003	
10/24/2018 14:02			0	0	0	0	0	0.001	0.003	
10/24/2018 14:03			0	0	0	0	0	0.001	0.003	
10/24/2018 14:04			0	0	0	0	0	0.001	0.003	
10/24/2018 14:05	12.7	71.9	0	0	0	0	0	0.001	0.003	42.429;-76.50136
10/24/2018 14:06			0	0	0	0	0	0.001	0.003	
10/24/2018 14:07			0	0	0	0	0	0.001	0.003	
10/24/2018 14:08			0	0	0	0	0	0.001	0.004	
10/24/2018 14:09			0	0	0	0	0	0.001	0.004	
10/24/2018 14:10	12.6	71.9	0	0	0	0	0	0.001	0.003	42.42895;-76.50132
10/24/2018 14:11			0	0	0	0	0	0.001	0.003	
10/24/2018 14:12			0	0	0	0	0	0.001	0.004	
10/24/2018 14:13			0	0	0	0	0	0.001	0.004	
10/24/2018 14:14			0	0	0	0	0	0.001	0.004	
10/24/2018 14:15	12.6	73.9	0	0	0	0	0	0.001	0.003	42.42897;-76.50125
10/24/2018 14:16			0	0	0	0	0	0.001	0.004	
10/24/2018 14:17			0	0	0	0	0	0.001	0.004	
10/24/2018 14:18			0	0	0	0	0	0.001	0.004	
10/24/2018 14:19			0	0	0	0	0	0.001	0.004	
10/24/2018 14:20	12.6	72.9	0	0	0	0	0	0.001	0.004	42.42897;-76.50127
10/24/2018 14:21			0	0	0	0	0	0.001	0.004	
10/24/2018 14:22			0	0	0	0	0	0.001	0.004	
10/24/2018 14:23			0	0	0	0	0	0.001	0.004	
10/24/2018 14:24			0	0	0	0	0	0.001	0.004	
10/24/2018 14:25	12.6	71.9	0	0	0	0	0	0.001	0.004	42.42898;-76.50128
10/24/2018 14:26			0	0	0	0	0	0.001	0.004	
10/24/2018 14:27			0	0	0	0	0	0.001	0.004	
10/24/2018 14:28			0	0	0	0	0	0.001	0.004	
10/24/2018 14:29			0	0	0	0	0	0.001	0.005	
10/24/2018 14:30	12.6	82	0	0	0	0	0	0.001	0.005	42.42901;-76.50129
10/24/2018 14:31			0	0	0	0	0	0.001	0.004	
10/24/2018 14:32			0	0	0	0	0	0.001	0.005	
10/24/2018 14:33			0	0	0	0	0	0.001	0.005	
10/24/2018 14:34			0	0	0	0	0	0.001	0.004	
10/24/2018 14:35	12.6	73.9	0	0	0	0	0	0.001	0.004	42.42898;-76.50127
10/24/2018 14:36			0	0	0	0	0	0.001	0.004	
10/24/2018 14:37			0	0	0	0	0	0.001	0.004	
10/24/2018 14:38			0	0	0	0	0	0.001	0.005	
10/24/2018 14:39			0	0	0	0	0	0.001	0.005	
10/24/2018 14:40	12.6	71.9	0	0	0	0	0	0.001	0.005	
10/24/2018 14:40										42.42899;-76.50123
10/24/2018 14:41			0	0	0	0	0	0.001	0.005	
10/24/2018 14:42			0	0	0	0	0	0.001	0.005	
10/24/2018 14:43			0	0	0	0	0	0.001	0.005	
10/24/2018 14:44			0	0	0	0	0	0.001	0.005	
10/24/2018 14:45	12.6	72.9	0	0	0	0	0	0.001	0.005	
10/24/2018 14:45										42.42903;-76.50131
10/24/2018 14:46			0	0	0	0	0	0.001	0.005	
10/24/2018 14:47			0	0	0	0	0	0.001	0.005	
10/24/2018 14:48			0	0	0	0	0	0.001	0.005	
10/24/2018 14:49			0	0	0	0	0	0.001	0.005	
10/24/2018 14:50	12.6	72.9	0	0	0	0	0	0.001	0.005	
10/24/2018 14:50										42.42904;-76.50131
10/24/2018 14:51			0	0	0	0	0	0.001	0.005	
10/24/2018 14:52			0	0	0	0	0	0.001	0.005	
10/24/2018 14:53			0	0	0	0	0	0.001	0.006	
10/24/2018 14:54			0	0	0	0	0	0.001	0.006	
10/24/2018 14:55	12.6	79	0	0	0	0	0	0.001	0.006	
10/24/2018 14:55										42.42902;-76.50132
10/24/2018 14:56			0	0	0	0	0	0.001	0.006	
10/24/2018 14:57			0	0	0	0	0	0.001	0.006	
10/24/2018 14:58			0	0	0	0	0	0.001	0.006	
10/24/2018 14:59			0	0	0	0	0	0.001	0.006	
10/24/2018 15:00	12.6	72.9	0	0	0	0	0	0.001	0.006	
10/24/2018 15:00										42.42899;-76.50127
10/24/2018 15:01			0	0	0	0	0	0.001	0.006	
10/24/2018 15:02			0	0	0	0	0	0.001	0.006	
10/24/2018 15:03			0	0	0	0	0	0.001	0.006	
10/24/2018 15:04			0	0	0	0	0	0.001	0.006	
10/24/2018 15:05	12.6	72.9	0	0	0	0	0	0.001	0.006	
10/24/2018 15:05										42.42898;-76.50129
10/24/2018 15:06			0	0	0	0	0	0.002	0.006	
10/24/2018 15:07			0	0	0	0	0	0.002	0.006	
10/24/2018 15:08			0	0	0	0	0	0.002	0.006	
10/24/2018 15:09			0	0	0	0	0	0.002	0.006	
10/24/2018 15:10	12.6	72.9	0	0	0	0	0	0.002	0.006	
10/24/2018 15:10										42.42905;-76.5013
10/24/2018 15:11			0	0	0	0	0	0.002	0.005	
10/24/2018 15:12			0	0	0	0	0	0.002	0.005	
10/24/2018 15:13			0	0	0	0	0	0.002	0.005	
10/24/2018 15:14			0	0	0	0	0	0.002	0.006	
10/24/2018 15:15	12.6	71.9	0	0	0	0	0	0.002	0.006	
10/24/2018 15:15										42.42904;-76.50126
10/24/2018 15:16			0	0	0	0	0	0.002	0.006	
10/24/2018 15:17			0	0	0	0	0	0.002	0.006	
10/24/2018 15:18			0	0	0	0	0	0.002	0.006	
10/24/2018 15:19			0	0	0	0	0	0.002	0.006	
10/24/2018 15:20	12.6	70.9	0	0	0	0	0	0.002	0.006	
10/24/2018 15:20										42.42897;-76.50132
10/24/2018 15:21			0	0	0	0	0	0.002	0.006	
10/24/2018 15:22			0	0	0	0	0	0.002	0.006	
10/24/2018 15:23			0	0	0	0	0	0.002	0.006	
10/24/2018 15:24			0	0	0	0	0	0.002	0.006	
10/24/2018 15:25	12.6	71.9	0	0	0	0	0	0.002	0.006	
10/24/2018 15:25										42.429;-76.50129
10/24/2018 15:26			0	0	0	0	0	0.002	0.006	
10/24/2018 15:27			0	0	0	0	0	0.002	0.006	
10/24/2018 15:28			0	0	0	0	0	0.002	0.006	
10/24/2018 15:29			0	0	0	0	0	0.002	0.005	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/24/2018 15:30	12.6	73.9	0	0	0	0	0	0.002	0.006	
10/24/2018 15:30										42.42904;-76.50123
10/24/2018 15:31			0	0	0	0	0	0.002	0.006	
10/24/2018 15:32			0	0	0	0	0	0.002	0.006	
10/24/2018 15:33			0	0	0	0	0	0.002	0.006	
10/24/2018 15:34			0	0	0	0	0	0.002	0.005	
10/24/2018 15:35	12.6	71.9	0	0	0	0	0	0.002	0.005	
10/24/2018 15:35										42.429;-76.50127
10/24/2018 15:36			0	0	0	0	0	0.002	0.006	
10/24/2018 15:37			0	0	0	0	0	0.002	0.005	
10/24/2018 15:38			0	0	0	0	0	0.002	0.006	
10/24/2018 15:39			0	0	0	0	0	0.002	0.006	
10/24/2018 15:40	12.6	72.9	0	0	0	0	0	0.002	0.006	
10/24/2018 15:40										42.42905;-76.50118
10/24/2018 15:41			0	0	0	0	0	0.002	0.006	
10/24/2018 15:42			0	0	0	0	0	0.002	0.006	
10/24/2018 15:43			0	0	0	0	0	0.002	0.006	
10/24/2018 15:44			0	0	0	0	0	0.002	0.006	
10/24/2018 15:45	12.6	76.9	0	0	0	0	0	0.002	0.007	
10/24/2018 15:45										42.429;-76.50121
10/24/2018 15:46			0	0	0	0	0	0.002	0.007	
10/24/2018 15:47			0	0	0	0	0	0.002	0.007	
10/24/2018 15:48			0	0	0	0	0	0.002	0.007	
10/24/2018 15:49			0	0	0	0	0	0.002	0.007	
10/24/2018 15:50	12.6	82	0	0	0	0	0	0.002	0.007	
10/24/2018 15:50										42.42904;-76.50118
10/24/2018 15:51			0	0	0	0	0	0.002	0.007	
10/24/2018 15:52			0	0	0	0	0	0.002	0.008	
10/24/2018 15:53			0	0	0	0	0	0.002	0.008	
10/24/2018 15:54			0	0	0	0	0	0.002	0.008	
10/24/2018 15:55	12.5	72.9	0	0	0	0	0	0.002	0.008	
10/24/2018 15:55										42.42915;-76.50112
10/24/2018 15:56			0	0	0	0	0	0.002	0.008	
10/24/2018 15:57			0	0	0	0	0	0.002	0.008	
10/24/2018 15:58			0	0	0	0	0	0.002	0.008	
10/24/2018 15:59			0	0	0	0	0	0.002	0.007	
10/24/2018 16:00	12.5	74.9	0	0	0	0	0	0.002	0.007	
10/24/2018 16:00										42.42912;-76.50117
10/24/2018 16:01			0	0	0	0	0	0.002	0.008	
10/24/2018 16:02			0	0	0	0	0	0.002	0.008	
10/24/2018 16:03			0	0	0	0	0	0.002	0.007	
10/24/2018 16:04			0	0	0	0	0	0.002	0.007	
10/24/2018 16:05	12.5	84	0	0	0	0	0	0.002	0.007	
10/24/2018 16:05										42.42903;-76.50126
10/24/2018 16:06			0	0	0	0	0	0.002	0.007	
10/24/2018 16:07			0	0	0	0	0	0.002	0.007	
10/24/2018 16:08			0	0	0	0	0	0.002	0.007	
10/24/2018 16:09			0	0	0	0	0	0.002	0.007	
10/24/2018 16:10	12.5	72.9	0	0	0	0	0	0.002	0.007	
10/24/2018 16:10										42.42895;-76.50127
10/24/2018 16:11			0	0	0	0	0	0.002	0.007	
10/24/2018 16:12			0	0	0	0	0	0.002	0.007	
10/24/2018 16:13			0	0	0	0	0	0.002	0.007	
10/24/2018 16:14			0	0	0	0	0	0.002	0.007	
10/24/2018 16:15	12.5	79	0	0	0	0	0	0.002	0.007	
10/24/2018 16:15										42.42896;-76.5013
10/24/2018 16:16			0	0	0	0	0	0.002	0.007	
10/24/2018 16:17			0	0	0	0	0	0.002	0.007	
10/24/2018 16:18			0	0	0	0	0	0.002	0.007	
10/24/2018 16:19			0	0	0	0	0	0.002	0.007	
10/24/2018 16:20	12.5	76.9	0	0	0	0	0	0.003	0.007	
10/24/2018 16:20										42.42893;-76.50134
10/24/2018 16:21			0	0	0	0	0	0.003	0.006	
10/24/2018 16:22			0	0	0	0	0	0.003	0.006	
10/24/2018 16:23			0	0	0	0	0	0.003	0.006	
10/24/2018 16:24			0	0	0	0	0	0.003	0.006	
10/24/2018 16:25	12.5	72.9	0	0	0	0	0	0.003	0.006	
10/24/2018 16:25										42.42894;-76.5013
10/24/2018 16:26			0	0	0	0	0	0.003	0.006	
10/24/2018 16:27			0	0	0	0	0	0.003	0.006	
10/24/2018 16:28			0	0	0	0	0	0.003	0.006	
10/24/2018 16:29			0	0	0	0	0	0.003	0.006	
10/24/2018 16:30	12.5	91.1	0	0	0	0	0	0.003	0.006	
10/24/2018 16:30										42.42895;-76.5013
10/24/2018 16:31			0	0	0	0	0	0.003	0.006	
10/24/2018 16:32			0	0	0	0	0	0.003	0.006	
10/24/2018 16:33			0	0	0	0	0	0.003	0.006	
10/24/2018 16:34			0	0	0	0	0	0.003	0.006	
10/24/2018 16:35	12.5	72.9	0	0	0	0	0	0.003	0.006	
10/24/2018 16:35										42.42896;-76.50132
10/24/2018 16:36			0	0	0	0	0	0.003	0.006	
10/24/2018 16:37			0	0	0	0	0	0.003	0.006	
10/24/2018 16:38			0	0	0	0	0	0.003	0.005	
10/24/2018 16:39			0	0	0	0	0	0.003	0.005	
10/24/2018 16:40	12.5	83	0	0	0	0	0	0.003	0.005	
10/24/2018 16:40										42.42891;-76.50131
10/24/2018 16:41			0	0	0	0	0	0.003	0.005	
10/24/2018 16:42			0	0	0	0	0	0.003	0.005	
10/24/2018 16:43			0	0	0	0	0	0.003	0.005	
10/24/2018 16:44			0	0	0	0	0	0.003	0.005	
10/24/2018 16:45	12.5	77.9	0	0	0	0	0	0.003	0.006	
10/24/2018 16:45										42.42895;-76.5013
10/24/2018 16:46			0	0	0	0	0	0.003	0.005	
10/24/2018 16:47			0	0	0	0	0	0.003	0.005	
10/24/2018 16:48			0	0	0	0	0	0.003	0.005	
10/24/2018 16:49			0	0	0	0	0	0.003	0.005	
10/24/2018 16:50	12.5	109.3	0	0	0	0	0	0.003	0.005	
10/24/2018 16:50										42.42894;-76.50131
10/24/2018 16:51			0	0	0	0	0	0.003	0.005	
10/24/2018 16:52			0	0	0	0	0	0.003	0.005	
10/24/2018 16:53			0	0	0	0	0	0.003	0.005	
10/24/2018 16:54			0	0	0	0	0	0.003	0.005	
10/24/2018 16:55	12.5	72.9	0	0	0	0	0	0.003	0.005	
10/24/2018 16:55										42.42895;-76.50127
10/24/2018 16:56			0	0	0	0	0	0.003	0.005	
10/24/2018 16:57			0	0	0	0	0	0.003	0.005	
10/24/2018 16:58			0	0	0	0	0	0.003	0.006	
10/24/2018 16:59			0	0	0	0	0	0.003	0.005	
10/24/2018 17:00	12.5	74.9	0	0	0	0	0	0.003	0.005	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/24/2018 17:00										42.42896;-76.5013
10/24/2018 17:01			0	0	0	0	0	0.003	0.005	
10/24/2018 17:02			0	0	0	0	0	0.003	0.005	
10/24/2018 17:03			0	0	0	0	0	0.003	0.006	
10/24/2018 17:04			0	0	0	0	0	0.003	0.006	
10/24/2018 17:05	12.5	75.9	0	0	0	0	0	0.003	0.006	
10/24/2018 17:05										42.42896;-76.50125
10/24/2018 17:06			0	0	0	0	0	0.003	0.005	
10/24/2018 17:07			0	0	0	0	0	0.003	0.006	
10/24/2018 17:08			0	0	0	0	0	0.003	0.005	
10/24/2018 17:09			0	0	0	0	0	0.003	0.006	
10/24/2018 17:10	12.5	82	0	0	0	0	0	0.003	0.006	
10/24/2018 17:10										42.42895;-76.5013
10/24/2018 17:11			0	0	0	0	0	0.003	0.006	
10/24/2018 17:12			0	0	0	0	0	0.003	0.006	
10/24/2018 17:13			0	0	0	0	0	0.003	0.006	
10/24/2018 17:14			0	0	0	0	0	0.003	0.006	
10/24/2018 17:15	12.5	73.9	0	0	0	0	0	0.003	0.006	
10/24/2018 17:15										42.42901;-76.50134
10/24/2018 17:16			0	0	0	0	0	0.003	0.006	
10/24/2018 17:17			0	0	0	0	0	0.003	0.006	
10/24/2018 17:18			0	0	0	0	0	0.003	0.006	
10/24/2018 17:19			0	0	0	0	0	0.003	0.006	
10/24/2018 17:20	12.4	75.9	0	0	0	0	0	0.003	0.006	
10/24/2018 17:20										42.429;-76.50134
10/24/2018 17:21			0	0	0	0	0	0.003	0.006	
10/24/2018 17:22			0	0	0	0	0	0.003	0.006	
10/24/2018 17:23			0	0	0	0	0	0.003	0.006	
10/24/2018 17:24			0	0	0	0	0	0.003	0.006	
10/24/2018 17:25	12.4	77.9	0	0	0	0	0	0.003	0.006	
10/24/2018 17:25										42.42901;-76.50132
10/24/2018 17:26			0	0	0	0	0	0.003	0.006	
10/24/2018 17:27			0	0	0	0	0	0.003	0.006	
10/24/2018 17:28			0	0	0	0	0	0.003	0.006	
10/24/2018 17:29			0	0	0	0	0	0.003	0.006	
10/24/2018 17:30	12.4	73.9	0	0	0	0	0	0.003	0.006	
10/24/2018 17:30										42.42904;-76.50134
10/24/2018 17:31			0	0	0	0	0	0.003	0.006	
10/24/2018 17:32			0	0	0	0	0	0.003	0.006	
10/24/2018 17:33			0	0	0	0	0	0.003	0.006	
10/24/2018 17:34			0	0	0	0	0	0.003	0.006	
10/24/2018 17:35	12.4	73.9	0	0	0	0	0	0.003	0.006	
10/24/2018 17:35										42.42902;-76.50132
10/24/2018 17:36			0	0	0	0	0	0.003	0.006	
10/24/2018 17:37			0	0	0	0	0	0.003	0.006	
10/24/2018 17:38			0	0	0	0	0	0.003	0.007	
10/24/2018 17:39			0	0	0	0	0	0.003	0.006	
10/24/2018 17:40	12.4	73.9	0	0	0	0	0	0.003	0.006	
10/24/2018 17:40										42.42897;-76.5013
10/24/2018 17:41			0	0	0	0	0	0.003	0.006	
10/24/2018 17:42			0	0	0	0	0	0.003	0.006	
10/24/2018 17:43			0	0	0	0	0	0.004	0.006	
10/24/2018 17:44			0	0	0	0	0	0.004	0.007	
10/24/2018 17:45	12.4	76.9	0	0	0	0	0	0.004	0.007	
10/24/2018 17:45										42.42898;-76.5013
10/24/2018 17:46			0	0	0	0	0	0.004	0.007	
10/24/2018 17:47			0	0	0	0	0	0.004	0.007	
10/24/2018 17:48			0	0	0	0	0	0.004	0.007	
10/24/2018 17:49			0	0	0	0	0	0.004	0.007	
10/24/2018 17:50	12.4	73.9	0	0	0	0	0	0.004	0.012	
10/24/2018 17:50										42.42902;-76.50128
10/24/2018 17:51			0	0	0	0	0	0.004	0.014	
10/24/2018 17:52			0	0	0	0	0	0.004	0.007	
10/24/2018 17:53			0	0	0	0	0	0.004	0.007	
10/24/2018 17:54			0	0	0	0	0	0.004	0.007	
10/24/2018 17:55	12.4	73.9	0	0	0	0	0	0.004	0.007	
10/24/2018 17:55										42.42904;-76.50124
10/24/2018 17:56			0	0	0	0	0	0.004	0.007	
10/24/2018 17:57			0	0	0	0	0	0.004	0.007	
10/24/2018 17:58			0	0	0	0	0	0.004	0.007	
10/24/2018 17:59			0	0	0	0	0	0.004	0.007	
10/24/2018 18:00	12.4	81	0	0	0	0	0	0.004	0.007	
10/24/2018 18:00										42.42899;-76.5013
10/24/2018 18:01			0	0	0	0	0	0.004	0.007	
10/24/2018 18:02			0	0	0	0	0	0.004	0.007	
10/24/2018 18:03			0	0	0	0	0	0.004	0.007	
10/24/2018 18:04			0	0	0	0	0	0.004	0.007	
10/24/2018 18:05	12.4	106.3	0	0	0	0	0	0.004	0.007	
10/24/2018 18:05										42.42901;-76.50134
10/24/2018 18:06			0	0	0	0	0	0.004	0.007	
10/24/2018 18:07			0	0	0	0	0	0.004	0.007	
10/24/2018 18:08			0	0	0	0	0	0.004	0.007	
10/24/2018 18:09			0	0	0	0	0	0.004	0.007	
10/24/2018 18:10	12.4	76.9	0	0	0	0	0	0.004	0.008	
10/24/2018 18:10										42.42903;-76.50132
10/24/2018 18:11			0	0	0	0	0	0.004	0.008	
10/24/2018 18:12			0	0	0	0	0	0.004	0.008	
10/24/2018 18:13			0	0	0	0	0	0.004	0.008	
10/24/2018 18:14			0	0	0	0	0	0.004	0.008	
10/24/2018 18:15	12.4	77.9	0	0	0	0	0	0.004	0.008	
10/24/2018 18:15										42.42905;-76.50135
10/24/2018 18:16			0	0	0	0	0	0.004	0.008	
10/24/2018 18:17			0	0	0	0	0	0.004	0.008	
10/24/2018 18:18			0	0	0	0	0	0.004	0.009	
10/24/2018 18:19			0	0	0	0	0	0.004	0.008	
10/24/2018 18:20	12.4	84	0	0	0	0	0	0.004	0.008	
10/24/2018 18:20										42.42905;-76.50135
10/24/2018 18:21			0	0	0	0	0	0.004	0.008	
10/24/2018 18:22			0	0	0	0	0	0.004	0.009	
10/24/2018 18:23			0	0	0	0	0	0.004	0.008	
10/24/2018 18:24			0	0	0	0	0	0.004	0.008	
10/24/2018 18:25	12.4	73.9	0	0	0	0	0	0.004	0.008	
10/24/2018 18:25										42.42899;-76.5013
10/24/2018 18:26			0	0	0	0	0	0.004	0.009	
10/24/2018 18:27			0	0	0	0	0	0.004	0.009	
10/24/2018 18:28			0	0	0	0	0	0.004	0.01	
10/24/2018 18:29			0	0	0	0	0	0.004	0.009	
10/24/2018 18:30	12.3	75.9	0	0	0	0	0	0.004	0.008	
10/24/2018 18:30										42.42893;-76.50133

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/24/2018 18:31			0	0	0	0	0	0.004	0.008	
10/24/2018 18:32			0	0	0	0	0	0.004	0.009	
10/24/2018 18:33			0	0	0	0	0	0.004	0.009	
10/24/2018 18:34			0	0	0	0	0	0.004	0.009	
10/24/2018 18:35	12.3	73.9	0	0	0	0	0	0.004	0.009	
10/24/2018 18:35										42.42893;-76.50131
10/24/2018 18:36			0	0	0	0	0	0.004	0.009	
10/24/2018 18:37			0	0	0	0	0	0.004	0.009	
10/24/2018 18:38			0	0	0	0	0	0.004	0.009	
10/24/2018 18:39			0	0	0	0	0	0.004	0.009	
10/24/2018 18:40	12.3	79	0	0	0	0	0	0.004	0.008	
10/24/2018 18:40										42.42894;-76.50131
10/24/2018 18:41			0	0	0	0	0	0.004	0.009	
10/24/2018 18:42			0	0	0	0	0	0.004	0.009	
10/24/2018 18:43			0	0	0	0	0	0.005	0.009	
10/24/2018 18:44			0	0	0	0	0	0.005	0.009	
10/24/2018 18:45	12.3	74.9	0	0	0	0	0	0.005	0.009	
10/24/2018 18:45										42.42896;-76.5013
10/24/2018 18:46			0	0	0	0	0	0.005	0.009	
10/24/2018 18:47			0	0	0	0	0	0.005	0.009	
10/24/2018 18:48			0	0	0	0	0	0.005	0.009	
10/24/2018 18:49			0	0	0	0	0	0.005	0.009	
10/24/2018 18:50	12.3	74.9	0	0	0	0	0	0.005	0.009	
10/24/2018 18:50										42.42895;-76.50128
10/24/2018 18:51			0	0	0	0	0	0.005	0.009	
10/24/2018 18:52			0	0	0	0	0	0.005	0.009	
10/24/2018 18:53			0	0	0	0	0	0.005	0.009	
10/24/2018 18:54			0	0	0	0	0	0.005	0.009	
10/24/2018 18:55	12.3	72.9	0	0	0	0	0	0.005	0.009	
10/24/2018 18:55										42.42901;-76.5013
10/24/2018 18:56			0	0	0	0	0	0.005	0.009	
10/24/2018 18:57			0	0	0	0	0	0.005	0.009	
10/24/2018 18:58			0	0	0	0	0	0.005	0.009	
10/24/2018 18:59			0	0	0	0	0	0.005	0.01	
10/24/2018 19:00	12.3	73.9	0	0	0	0	0	0.005	0.01	42.42896;-76.50129
10/24/2018 19:01			0	0	0	0	0	0.005	0.009	
10/24/2018 19:02			0	0	0	0	0	0.005	0.01	
10/24/2018 19:03			0	0	0	0	0	0.005	0.009	
10/24/2018 19:04			0	0	0	0	0	0.005	0.009	
10/24/2018 19:05	12.3	73.9	0	0	0	0	0	0.005	0.009	42.42898;-76.50128
10/24/2018 19:06			0	0	0	0	0	0.005	0.009	
10/24/2018 19:07			0	0	0	0	0	0.005	0.01	
10/24/2018 19:08			0	0	0	0	0	0.005	0.009	
10/24/2018 19:09			0	0.009	0	0	0.009	0.005	0.009	
10/24/2018 19:10	12.3	75.9	0	0.009	0	0	0	0.005	0.009	42.42897;-76.50131
10/24/2018 19:11			0	0.009	0	0	0	0.005	0.009	
10/24/2018 19:12			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:13			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:14			0	0.009	0	0	0	0.005	0.009	
10/24/2018 19:15	12.3	73.9	0	0.009	0	0	0	0.005	0.01	42.42901;-76.5013
10/24/2018 19:16			0	0.009	0	0	0	0.005	0.009	
10/24/2018 19:17			0	0.009	0	0	0	0.005	0.009	
10/24/2018 19:18			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:19			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:20	12.3	77.9	0	0.009	0	0	0	0.005	0.008	42.42897;-76.50134
10/24/2018 19:21			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:22			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:23			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:24			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:25	12.3	74.9	0	0.009	0	0	0	0.005	0.008	42.42896;-76.50125
10/24/2018 19:26			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:27			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:28			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:29			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:30	12.3	85	0	0.009	0	0	0	0.005	0.011	42.429;-76.50127
10/24/2018 19:31			0	0.009	0	0	0	0.005	0.009	
10/24/2018 19:32			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:33			0	0.009	0	0	0	0.005	0.009	
10/24/2018 19:34			0	0.009	0	0	0	0.005	0.008	
10/24/2018 19:35	12.3	73.9	0	0.009	0	0	0	0.005	0.009	42.42901;-76.50132
10/24/2018 19:36			0	0.009	0	0	0	0.005	0.009	
10/24/2018 19:37			0	0.009	0	0	0	0.006	0.009	
10/24/2018 19:38			0	0.009	0	0	0	0.006	0.01	
10/24/2018 19:39			0	0.009	0	0	0	0.006	0.01	
10/24/2018 19:40	12.2	73.9	0	0.009	0	0	0	0.006	0.009	42.42902;-76.5013
10/24/2018 19:41			0	0.009	0	0	0	0.006	0.014	
10/24/2018 19:42			0	0.009	0	0	0	0.006	0.011	
10/24/2018 19:43			0	0.009	0	0	0	0.006	0.009	
10/24/2018 19:44			0	0.009	0	0	0	0.006	0.01	
10/24/2018 19:45	12.2	74.9	0	0.009	0	0	0	0.006	0.009	42.42897;-76.50131
10/24/2018 19:46			0	0.009	0	0	0	0.006	0.01	
10/24/2018 19:47			0	0.009	0	0	0	0.006	0.008	
10/24/2018 19:48			0	0.009	0	0	0	0.006	0.011	
10/24/2018 19:49			0	0.009	0	0	0	0.006	0.017	
10/24/2018 19:50	12.2	85	0	0.009	0	0	0	0.006	0.009	42.42899;-76.5013
10/24/2018 19:51			0	0.009	0	0	0	0.006	0.009	
10/24/2018 19:52			0	0.009	0	0	0	0.006	0.01	
10/24/2018 19:53			0	0.009	0	0	0	0.006	0.013	
10/24/2018 19:54			0	0.009	0	0	0	0.006	0.011	
10/24/2018 19:55	12.2	73.9	0	0.009	0	0	0	0.006	0.009	42.42899;-76.5013
10/24/2018 19:56			0	0.009	0	0	0	0.006	0.011	
10/24/2018 19:57			0	0.009	0	0	0	0.006	0.01	
10/24/2018 19:58			0	0.009	0	0	0	0.006	0.009	
10/24/2018 19:59			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:00	12.2	74.9	0	0.009	0	0	0	0.006	0.009	42.42899;-76.5013
10/24/2018 20:01			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:02			0	0.009	0	0	0	0.006	0.008	
10/24/2018 20:03			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:04			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:05	12.2	85	0	0.009	0	0	0	0.006	0.009	42.42896;-76.50133
10/24/2018 20:06			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:07			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:08			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:09			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:10	12.2	76.9	0	0.009	0	0	0	0.006	0.009	42.42898;-76.5013
10/24/2018 20:11			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:12			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:13			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:14			0	0.009	0	0	0	0.006	0.009	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/24/2018 20:15	12.2	74.9	0	0.009	0	0	0	0.006	0.009	42.42895;-76.5013
10/24/2018 20:16			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:17			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:18			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:19			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:20	12.2	79	0	0.009	0	0	0	0.006	0.009	42.42892;-76.50124
10/24/2018 20:21			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:22			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:23			0	0.009	0	0	0	0.006	0.01	
10/24/2018 20:24			0	0.009	0	0	0	0.006	0.01	
10/24/2018 20:25	12.2	85	0	0.009	0	0	0	0.006	0.009	42.42894;-76.50128
10/24/2018 20:26			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:27			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:28			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:29			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:30	12.2	75.9	0	0.009	0	0	0	0.006	0.009	42.42901;-76.50131
10/24/2018 20:31			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:32			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:33			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:34			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:35	12.2	74.9	0	0.009	0	0	0	0.006	0.009	42.42888;-76.50123
10/24/2018 20:36			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:37			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:38			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:39			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:40	12.2	85	0	0.009	0	0	0	0.006	0.009	42.42899;-76.50125
10/24/2018 20:41			0	0.009	0	0	0	0.006	0.008	
10/24/2018 20:42			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:43			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:44			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:45	12.2	76.9	0	0.009	0	0	0	0.006	0.009	42.42895;-76.50127
10/24/2018 20:46			0	0.009	0	0	0	0.006	0.008	
10/24/2018 20:47			0	0.009	0	0	0	0.006	0.009	
10/24/2018 20:48			0	0.009	0	0	0	0.006	0.009	
10/25/2018 12:12	12.9	116.4								
10/25/2018 12:13			0	0	0	0	0			
10/25/2018 12:14			0	0	0	0	0	0		
10/25/2018 12:15	12.8	70.9	0	0	0	0	0	0	0.01	
10/25/2018 12:15										42.42907;-76.50117
10/25/2018 12:16			0	0	0	0	0	0	0.01	
10/25/2018 12:17			0	0	0	0	0	0	0.01	
10/25/2018 12:18			0	0	0	0	0	0	0.01	
10/25/2018 12:19			0	0	0	0	0	0	0.01	
10/25/2018 12:20	12.8	79	0	0	0	0	0	0	0.01	
10/25/2018 12:20										42.4289;-76.5013
10/25/2018 12:21			0	0	0	0	0	0	0.01	
10/25/2018 12:22			0	0	0	0	0	0	0.01	
10/25/2018 12:23			0	0	0	0	0	0	0.01	
10/25/2018 12:24			0	0	0	0	0	0	0.009	
10/25/2018 12:25	12.8	71.9	0	0	0	0	0	0	0.009	
10/25/2018 12:25										42.42894;-76.50136
10/25/2018 12:26			0	0	0	0	0	0	0.01	
10/25/2018 12:27			0	0	0	0	0	0	0.009	
10/25/2018 12:28			0	0	0	0	0	0	0.009	
10/25/2018 12:29			0	0	0	0	0	0	0.009	
10/25/2018 12:30	12.8	72.9	0	0	0	0	0	0	0.014	
10/25/2018 12:30										42.42887;-76.50137
10/25/2018 12:31			0	0	0	0	0	0	0.022	
10/25/2018 12:32			0	0	0	0	0	0	0.009	
10/25/2018 12:33			0	0	0	0	0	0	0.015	
10/25/2018 12:34			0	0	0	0	0	0	0.01	
10/25/2018 12:35	12.8	79	0	0	0	0	0	0	0.009	
10/25/2018 12:35										42.42887;-76.50132
10/25/2018 12:36			0	0	0	0	0	0	0.013	
10/25/2018 12:37			0	0	0	0	0	0.001	0.009	
10/25/2018 12:38			0	0	0	0	0	0.001	0.015	
10/25/2018 12:39			0	0	0	0	0	0.001	0.01	
10/25/2018 12:40	12.7	73.9	0	0	0	0	0	0.001	0.013	
10/25/2018 12:40										42.42885;-76.50137
10/25/2018 12:41			0	0	0	0	0	0.001	0.015	
10/25/2018 12:42			0	0	0	0	0	0.001	0.01	
10/25/2018 12:43			0	0	0	0	0	0.001	0.015	
10/25/2018 12:44			0	0	0	0	0	0.001	0.01	
10/25/2018 12:45	12.7	70.9	0	0	0	0	0	0.001	0.01	
10/25/2018 12:45										42.42884;-76.50134
10/25/2018 12:46			0	0	0	0	0	0.001	0.009	
10/25/2018 12:47			0	0	0	0	0	0.001	0.01	
10/25/2018 12:48			0	0	0	0	0	0.001	0.01	
10/25/2018 12:49			0	0	0	0	0	0.001	0.01	
10/25/2018 12:50	12.7	70.9	0	0	0	0	0	0.001	0.015	
10/25/2018 12:50										42.42896;-76.50127
10/25/2018 12:51			0	0	0	0	0	0.001	0.034	
10/25/2018 12:52			0	0	0	0	0	0.001	0.011	
10/25/2018 12:53			0	0	0	0	0	0.001	0.01	
10/25/2018 12:54			0	0	0	0	0	0.001	0.009	
10/25/2018 12:55	12.7	73.9	0	0	0	0	0	0.001	0.01	
10/25/2018 12:55										42.42896;-76.5013
10/25/2018 12:56			0	0	0	0	0	0.001	0.01	
10/25/2018 12:57			0	0	0	0	0	0.001	0.01	
10/25/2018 12:58			0	0	0	0	0	0.001	0.01	
10/25/2018 12:59			0	0	0	0	0	0.001	0.011	
10/25/2018 13:00	12.7	81	0	0	0	0	0	0.001	0.012	
10/25/2018 13:00										42.429;-76.50129
10/25/2018 13:01			0	0	0	0	0	0.001	0.011	
10/25/2018 13:02			0	0	0	0	0	0.001	0.01	
10/25/2018 13:03			0	0	0	0	0	0.001	0.01	
10/25/2018 13:04			0	0	0	0	0	0.001	0.009	
10/25/2018 13:05	12.7	74.9	0	0	0	0	0	0.001	0.009	
10/25/2018 13:05										42.42897;-76.50134
10/25/2018 13:06			0	0	0	0	0	0.001	0.009	
10/25/2018 13:07			0	0	0	0	0	0.001	0.009	
10/25/2018 13:08			0	0	0	0	0	0.001	0.009	
10/25/2018 13:09			0	0	0	0	0	0.001	0.008	
10/25/2018 13:10	12.7	108.3	0	0	0	0	0	0.001	0.008	
10/25/2018 13:10										42.42891;-76.5013
10/25/2018 13:11			0	0	0	0	0	0.001	0.009	
10/25/2018 13:12			0	0	0	0	0	0.001	0.009	
10/25/2018 13:13			0	0	0	0	0	0.001	0.009	
10/25/2018 13:14			0	0	0	0	0	0.001	0.009	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/25/2018 13:15	12.7	77.9	0	0	0	0	0	0.001	0.009	
10/25/2018 13:15										42.42891;-76.50134
10/25/2018 13:16			0	0	0	0	0	0.001	0.009	
10/25/2018 13:17			0	0	0	0	0	0.001	0.009	
10/25/2018 13:18			0	0	0	0	0	0.001	0.009	
10/25/2018 13:19			0	0	0	0	0	0.001	0.008	
10/25/2018 13:20	12.7	70.9	0	0	0	0	0	0.001	0.009	
10/25/2018 13:20										42.42888;-76.50126
10/25/2018 13:21			0	0	0	0	0	0.001	0.009	
10/25/2018 13:22			0	0	0	0	0	0.002	0.008	
10/25/2018 13:23			0	0	0	0	0	0.002	0.009	
10/25/2018 13:24			0	0	0	0	0	0.002	0.009	
10/25/2018 13:25	12.7	77.9	0	0	0	0	0	0.002	0.009	
10/25/2018 13:25										42.42891;-76.50136
10/25/2018 13:26			0	0	0	0	0	0.002	0.009	
10/25/2018 13:27			0	0	0	0	0	0.002	0.009	
10/25/2018 13:28			0	0	0	0	0	0.002	0.009	
10/25/2018 13:29			0	0	0	0	0	0.002	0.009	
10/25/2018 13:30	12.7	70.9	0	0	0	0	0	0.002	0.008	
10/25/2018 13:30										42.42895;-76.50132
10/25/2018 13:31			0	0	0	0	0	0.002	0.008	
10/25/2018 13:32			0	0	0	0	0	0.002	0.008	
10/25/2018 13:33			0	0	0	0	0	0.002	0.008	
10/25/2018 13:34			0	0	0	0	0	0.002	0.008	
10/25/2018 13:35	12.7	70.9	0	0	0	0	0	0.002	0.008	
10/25/2018 13:35										42.42896;-76.50135
10/25/2018 13:36			0	0	0	0	0	0.002	0.008	
10/25/2018 13:37			0	0	0	0	0	0.002	0.008	
10/25/2018 13:38			0	0	0	0	0	0.002	0.008	
10/25/2018 13:39			0	0	0	0	0	0.002	0.008	
10/25/2018 13:40	12.7	74.9	0	0	0	0	0	0.002	0.008	
10/25/2018 13:40										42.42894;-76.50137
10/25/2018 13:41			0	0	0	0	0	0.002	0.008	
10/25/2018 13:42			0	0	0	0	0	0.002	0.008	
10/25/2018 13:43			0	0	0	0	0	0.002	0.008	
10/25/2018 13:44			0	0	0	0	0	0.002	0.01	
10/25/2018 13:45	12.7	70.9	0	0	0	0	0	0.002	0.011	
10/25/2018 13:45										42.42893;-76.5013
10/25/2018 13:46			0	0	0	0	0	0.002	0.009	
10/25/2018 13:47			0	0	0	0	0	0.002	0.008	
10/25/2018 13:48			0	0	0	0	0	0.002	0.008	
10/25/2018 13:49			0	0	0	0	0	0.002	0.008	
10/25/2018 13:50	12.7	72.9	0	0	0	0	0	0.002	0.007	
10/25/2018 13:50										42.42899;-76.50135
10/25/2018 13:51			0	0	0	0	0	0.002	0.009	
10/25/2018 13:52			0	0	0	0	0	0.002	0.009	
10/25/2018 13:53			0	0	0	0	0	0.002	0.01	
10/25/2018 13:54			0	0	0	0	0	0.002	0.009	
10/25/2018 13:55	12.6	80	0	0	0	0	0	0.002	0.011	
10/25/2018 13:55										42.42903;-76.5013
10/25/2018 13:56			0	0	0	0	0	0.002	0.012	
10/25/2018 13:57			0	0	0	0	0	0.002	0.012	
10/25/2018 13:58			0	0	0	0	0	0.002	0.009	
10/25/2018 13:59			0	0	0	0	0	0.002	0.009	
10/25/2018 14:00	12.6	70.9	0	0	0	0	0	0.002	0.01	
10/25/2018 14:00										42.42893;-76.50127
10/25/2018 14:01			0	0	0	0	0	0.002	0.01	
10/25/2018 14:02			0	0	0	0	0	0.002	0.011	
10/25/2018 14:03			0	0	0	0	0	0.002	0.012	
10/25/2018 14:04			0	0	0	0	0	0.002	0.012	
10/25/2018 14:05	12.6	70.9	0	0	0	0	0	0.002	0.011	
10/25/2018 14:05										42.42899;-76.50129
10/25/2018 14:06			0	0	0	0	0	0.002	0.009	
10/25/2018 14:07			0	0	0	0	0	0.002	0.008	
10/25/2018 14:08			0	0	0	0	0	0.002	0.01	
10/25/2018 14:09			0	0	0	0	0	0.002	0.01	
10/25/2018 14:10	12.6	75.9	0	0	0	0	0	0.002	0.009	
10/25/2018 14:10										42.42899;-76.50126
10/25/2018 14:11			0	0	0	0	0	0.002	0.017	
10/25/2018 14:12			0	0	0	0	0	0.002	0.007	
10/25/2018 14:13			0	0	0	0	0	0.002	0.007	
10/25/2018 14:14			0	0	0	0	0	0.002	0.007	
10/25/2018 14:15	12.6	73.9	0	0	0	0	0	0.003	0.007	
10/25/2018 14:15										42.42903;-76.5013
10/25/2018 14:16			0	0	0	0	0	0.003	0.007	
10/25/2018 14:17			0	0	0	0	0	0.003	0.007	
10/25/2018 14:18			0	0	0	0	0	0.003	0.007	
10/25/2018 14:19			0	0	0	0	0	0.003	0.007	
10/25/2018 14:20	12.6	81	0	0	0	0	0	0.003	0.007	
10/25/2018 14:20										42.42904;-76.50132
10/25/2018 14:21			0	0	0	0	0	0.003	0.007	
10/25/2018 14:22			0	0	0	0	0	0.003	0.007	
10/25/2018 14:23			0	0	0	0	0	0.003	0.007	
10/25/2018 14:24			0	0	0	0	0	0.003	0.007	
10/25/2018 14:25	12.6	80	0	0	0	0	0	0.003	0.007	
10/25/2018 14:25										42.42905;-76.50124
10/25/2018 14:26			0	0	0	0	0	0.003	0.008	
10/25/2018 14:27			0	0	0	0	0	0.003	0.007	
10/25/2018 14:28			0	0	0	0	0	0.003	0.007	
10/25/2018 14:29			0	0	0	0	0	0.003	0.007	
10/25/2018 14:30	12.6	73.9	0	0	0	0	0	0.003	0.008	
10/25/2018 14:30										42.42911;-76.50129
10/25/2018 14:31			0	0	0	0	0	0.003	0.008	
10/25/2018 14:32			0	0	0	0	0	0.003	0.007	
10/25/2018 14:33			0	0	0	0	0	0.003	0.007	
10/25/2018 14:34			0	0	0	0	0	0.003	0.007	
10/25/2018 14:35	12.6	72.9	0	0	0	0	0	0.003	0.007	
10/25/2018 14:35										42.42906;-76.50125
10/25/2018 14:36			0	0	0	0	0	0.003	0.008	
10/25/2018 14:37			0	0	0	0	0	0.003	0.007	
10/25/2018 14:38			0	0	0	0	0	0.003	0.008	
10/25/2018 14:39			0	0	0	0	0	0.003	0.007	
10/25/2018 14:40	12.6	72.9	0	0	0	0	0	0.003	0.008	
10/25/2018 14:40										42.42895;-76.5012
10/25/2018 14:41			0	0	0	0	0	0.003	0.008	
10/25/2018 14:42			0	0	0	0	0	0.003	0.007	
10/25/2018 14:43			0	0	0	0	0	0.003	0.007	
10/25/2018 14:44			0	0	0	0	0	0.003	0.007	
10/25/2018 14:45	12.6	71.9	0	0	0	0	0	0.003	0.007	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/25/2018 14:45										42.42899;-76.50124
10/25/2018 14:46			0	0	0	0	0	0.003	0.009	
10/25/2018 14:47			0	0	0	0	0	0.003	0.008	
10/25/2018 14:48			0	0	0	0	0	0.003	0.008	
10/25/2018 14:49			0	0	0	0	0	0.003	0.011	
10/25/2018 14:50	12.6	85	0	0	0	0	0	0.003	0.009	
10/25/2018 14:50										42.42904;-76.50131
10/25/2018 14:51			0	0	0	0	0	0.003	0.009	
10/25/2018 14:52			0	0	0	0	0	0.003	0.009	
10/25/2018 14:53			0	0	0	0	0	0.003	0.008	
10/25/2018 14:54			0	0	0	0	0	0.003	0.007	
10/25/2018 14:55	12.6	65.8	0	0	0	0	0	0.003	0.007	
10/25/2018 14:55										42.42904;-76.50133
10/25/2018 14:56			0	0	0	0	0	0.003	0.144	
10/25/2018 14:57			0	0	0	0	0	0.003	0.011	
10/25/2018 14:58			0	0	0	0	0	0.003	0.007	
10/25/2018 14:59			0	0	0	0	0	0.004	0.016	
10/25/2018 15:00	12.6	82	0	0	0	0	0	0.004	0.008	
10/25/2018 15:00										42.42899;-76.50127
10/25/2018 15:01			0	0	0	0	0	0.004	0.007	
10/25/2018 15:02			0	0	0	0	0	0.004	0.008	
10/25/2018 15:03			0	0	0	0	0	0.004	0.007	
10/25/2018 15:04			0	0	0	0	0	0.004	0.007	
10/25/2018 15:05	12.6	72.9	0	0	0	0	0	0.004	0.007	
10/25/2018 15:05										42.42903;-76.50124
10/25/2018 15:06			0	0	0	0	0	0.004	0.007	
10/25/2018 15:07			0	0	0	0	0	0.004	0.007	
10/25/2018 15:08			0	0	0	0	0	0.004	0.007	
10/25/2018 15:09			0	0	0	0	0	0.004	0.007	
10/25/2018 15:10	12.6	72.9	0	0	0	0	0	0.004	0.007	
10/25/2018 15:10										42.42907;-76.50124
10/25/2018 15:11			0	0	0	0	0	0.004	0.008	
10/25/2018 15:12			0	0	0	0	0	0.004	0.007	
10/25/2018 15:13			0	0	0	0	0	0.004	0.007	
10/25/2018 15:14			0	0	0	0	0	0.004	0.007	
10/25/2018 15:15	12.6	71.9	0	0	0	0	0	0.004	0.008	
10/25/2018 15:15										42.42906;-76.50124
10/25/2018 15:16			0	0	0	0	0	0.004	0.007	
10/25/2018 15:17			0	0	0	0	0	0.004	0.007	
10/25/2018 15:18			0	0	0	0	0	0.004	0.008	
10/25/2018 15:19			0	0	0	0	0	0.004	0.009	
10/25/2018 15:20	12.5	71.9	0	0	0	0	0	0.004	0.008	
10/25/2018 15:20										42.42908;-76.50124
10/25/2018 15:21			0	0	0	0	0	0.004	0.007	
10/25/2018 15:22			0	0	0	0	0	0.004	0.007	
10/25/2018 15:23			0	0	0	0	0	0.004	0.007	
10/25/2018 15:24			0	0	0	0	0	0.004	0.007	
10/25/2018 15:25	12.5	79	0	0	0	0	0	0.004	0.007	
10/25/2018 15:25										42.42903;-76.50127
10/25/2018 15:26			0	0	0	0	0	0.004	0.007	
10/25/2018 15:27			0	0	0	0	0	0.004	0.007	
10/25/2018 15:28			0	0	0	0	0	0.004	0.008	
10/25/2018 15:29			0	0	0	0	0	0.004	0.008	
10/25/2018 15:30	12.5	70.9	0	0	0	0	0	0.004	0.008	
10/25/2018 15:30										42.42908;-76.50124
10/25/2018 15:31			0	0	0	0	0	0.004	0.007	
10/25/2018 15:32			0	0	0	0	0	0.004	0.007	
10/25/2018 15:33			0	0	0	0	0	0.004	0.007	
10/25/2018 15:34			0	0	0	0	0	0.004	0.008	
10/25/2018 15:35	12.5	73.9	0	0	0	0	0	0.004	0.009	
10/25/2018 15:35										42.42922;-76.50117
10/25/2018 15:36			0	0	0	0	0	0.004	0.01	
10/25/2018 15:37			0	0	0	0	0	0.004	0.008	
10/25/2018 15:38			0	0	0	0	0	0.004	0.007	
10/25/2018 15:39			0	0	0	0	0	0.004	0.007	
10/25/2018 15:40	12.5	82	0	0	0	0	0	0.004	0.007	
10/25/2018 15:40										42.42907;-76.50124
10/25/2018 15:41			0	0	0	0	0	0.004	0.007	
10/25/2018 15:42			0	0	0	0	0	0.004	0.007	
10/25/2018 15:43			0	0	0	0	0	0.004	0.009	
10/25/2018 15:44			0	0	0	0	0	0.004	0.009	
10/25/2018 15:45	12.5	71.9	0	0	0	0	0	0.004	0.008	
10/25/2018 15:45										42.42956;-76.50097
10/25/2018 15:46			0	0	0	0	0	0.004	0.007	
10/25/2018 15:47			0	0	0	0	0	0.004	0.007	
10/25/2018 15:48			0	0	0	0	0	0.004	0.008	
10/25/2018 15:49			0	0	0	0	0	0.004	0.008	
10/25/2018 15:50	12.5	82	0	0	0	0	0	0.004	0.007	
10/25/2018 15:50										42.42939;-76.50105
10/25/2018 15:51			0	0	0	0	0	0.004	0.007	
10/25/2018 15:52			0	0	0	0	0	0.004	0.009	
10/25/2018 15:53			0	0	0	0	0	0.004	0.01	
10/25/2018 15:54			0	0	0	0	0	0.004	0.009	
10/25/2018 15:55	12.5	98.2	0	0	0	0	0	0.004	0.008	
10/25/2018 15:55										42.42881;-76.50132
10/25/2018 15:56			0	0	0	0	0	0.004	0.014	
10/25/2018 15:57			0	0	0	0	0	0.004	0.011	
10/25/2018 15:58			0	0	0	0	0	0.004	0.015	
10/25/2018 15:59			0	0	0	0	0	0.005	0.012	
10/25/2018 16:00	12.5	72.9	0	0	0	0	0	0.005	0.01	
10/25/2018 16:00										42.42904;-76.50121
10/25/2018 16:01			0	0	0	0	0	0.005	0.01	
10/25/2018 16:02			0	0	0	0	0	0.005	0.011	
10/25/2018 16:03			0	0	0	0	0	0.005	0.009	
10/25/2018 16:04			0	0	0	0	0	0.005	0.009	
10/25/2018 16:05	12.5	82	0	0	0	0	0	0.005	0.008	
10/25/2018 16:05										42.42891;-76.50127
10/25/2018 16:06			0	0	0	0	0	0.005	0.007	
10/25/2018 16:07			0	0	0	0	0	0.005	0.007	
10/25/2018 16:08			0	0	0	0	0	0.005	0.007	
10/25/2018 16:09			0	0	0	0	0	0.005	0.007	
10/25/2018 16:10	12.5	77.9	0	0	0	0	0	0.005	0.007	
10/25/2018 16:10										42.42915;-76.50133
10/25/2018 16:11			0	0	0	0	0	0.005	0.007	
10/25/2018 16:12			0	0	0	0	0	0.005	0.01	
10/25/2018 16:13			0	0	0	0	0	0.005	0.007	
10/25/2018 16:14			0	0	0	0	0	0.005	0.007	
10/25/2018 16:15	12.5	71.9	0	0	0	0	0	0.005	0.011	
10/25/2018 16:15										42.42902;-76.50128

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/25/2018 16:16			0	0	0	0	0	0.005	0.007	
10/25/2018 16:17			0	0	0	0	0	0.005	0.007	
10/25/2018 16:18			0	0	0	0	0	0.005	0.007	
10/25/2018 16:19			0	0	0	0	0	0.005	0.007	
10/25/2018 16:20	12.5	71.9	0	0	0	0	0	0.005	0.007	
10/25/2018 16:20										42.42895;-76.50126
10/25/2018 16:21			0	0	0	0	0	0.005	0.007	
10/25/2018 16:22			0	0	0	0	0	0.005	0.007	
10/25/2018 16:23			0	0	0	0	0	0.005	0.007	
10/25/2018 16:24			0	0	0	0	0	0.005	0.007	
10/25/2018 16:25	12.5	72.9	0	0	0	0	0	0.005	0.008	
10/25/2018 16:25										42.42896;-76.50127
10/25/2018 16:26			0	0	0	0	0	0.005	0.008	
10/25/2018 16:27			0	0	0	0	0	0.005	0.007	
10/25/2018 16:28			0	0	0	0	0	0.005	0.007	
10/25/2018 16:29			0	0	0	0	0	0.005	0.007	
10/25/2018 16:30	12.5	71.9	0	0	0	0	0	0.005	0.007	
10/25/2018 16:30										42.42899;-76.50128
10/25/2018 16:31			0	0	0	0	0	0.005	0.007	
10/25/2018 16:32			0	0	0	0	0	0.005	0.007	
10/25/2018 16:33			0	0	0	0	0	0.005	0.007	
10/25/2018 16:34			0	0	0	0	0	0.005	0.007	
10/25/2018 16:35	12.5	71.9	0	0	0	0	0	0.005	0.007	
10/25/2018 16:35										42.42894;-76.50129
10/25/2018 16:36			0	0	0	0	0	0.005	0.007	
10/25/2018 16:37			0	0	0	0	0	0.005	0.007	
10/25/2018 16:38			0	0	0	0	0	0.005	0.007	
10/25/2018 16:39			0	0	0	0	0	0.005	0.007	
10/25/2018 16:40	12.5	74.9	0	0	0	0	0	0.005	0.007	
10/25/2018 16:40										42.42885;-76.50139
10/25/2018 16:41			0	0	0	0	0	0.005	0.007	
10/25/2018 16:42			0	0	0	0	0	0.005	0.007	
10/25/2018 16:43			0	0	0	0	0	0.005	0.007	
10/25/2018 16:44			0	0	0	0	0	0.005	0.007	
10/25/2018 16:45	12.5	86	0	0	0	0	0	0.005	0.007	
10/25/2018 16:45										42.429;-76.50126
10/25/2018 16:46			0	0	0	0	0	0.005	0.007	
10/25/2018 16:47			0	0	0	0	0	0.005	0.007	
10/25/2018 16:48			0	0	0	0	0	0.005	0.02	
10/25/2018 16:49			0	0	0	0	0	0.005	0.007	
10/25/2018 16:50	12.5	72.9	0	0	0	0	0	0.005	0.007	
10/25/2018 16:50										42.42899;-76.50127
10/25/2018 16:51			0	0	0	0	0	0.005	0.007	
10/25/2018 16:52			0	0	0	0	0	0.005	0.006	
10/25/2018 16:53			0	0	0	0	0	0.005	0.007	
10/25/2018 16:54			0	0	0	0	0	0.005	0.007	
10/25/2018 16:55	12.4	71.9	0	0	0	0	0	0.005	0.007	
10/25/2018 16:55										42.42898;-76.50126
10/25/2018 16:56			0	0	0	0	0	0.005	0.007	
10/25/2018 16:57			0	0	0	0	0	0.005	0.007	
10/25/2018 16:58			0	0	0	0	0	0.005	0.007	
10/25/2018 16:59			0	0	0	0	0	0.005	0.007	
10/25/2018 17:00	12.4	75.9	0	0	0	0	0	0.005	0.01	
10/25/2018 17:00										42.42897;-76.50129
10/25/2018 17:01			0	0	0	0	0	0.005	0.007	
10/25/2018 17:02			0	0	0	0	0	0.005	0.006	
10/25/2018 17:03			0	0	0	0	0	0.006	0.007	
10/25/2018 17:04			0	0	0	0	0	0.006	0.007	
10/25/2018 17:05	12.4	110.3	0	0	0	0	0	0.006	0.007	
10/25/2018 17:05										42.42898;-76.50132
10/25/2018 17:06			0	0	0	0	0	0.006	0.007	
10/25/2018 17:07			0	0	0	0	0	0.006	0.007	
10/25/2018 17:08			0	0	0	0	0	0.006	0.007	
10/25/2018 17:09			0	0	0	0	0	0.006	0.007	
10/25/2018 17:10	12.4	112.4	0	0	0	0	0	0.006	0.007	
10/25/2018 17:10										42.42901;-76.50132
10/25/2018 17:11			0	0	0	0	0	0.006	0.007	
10/25/2018 17:12			0	0	0	0	0	0.006	0.007	
10/25/2018 17:13			0	0	0	0	0	0.006	0.007	
10/25/2018 17:14			0	0	0	0	0	0.006	0.007	
10/25/2018 17:15	12.4	75.9	0	0	0	0	0	0.006	0.007	
10/25/2018 17:15										42.42902;-76.50131
10/25/2018 17:16			0	0	0	0	0	0.006	0.007	
10/25/2018 17:17			0	0	0	0	0	0.006	0.007	
10/25/2018 17:18			0	0	0	0	0	0.006	0.007	
10/25/2018 17:19			0	0	0	0	0	0.006	0.012	
10/25/2018 17:20	12.4	72.9	0	0	0	0	0	0.006	0.007	
10/25/2018 17:20										42.42901;-76.5013
10/25/2018 17:21			0	0	0	0	0	0.006	0.007	
10/25/2018 17:22			0	0	0	0	0	0.006	0.007	
10/25/2018 17:23			0	0	0	0	0	0.006	0.007	
10/25/2018 17:24			0	0	0	0	0	0.006	0.007	
10/25/2018 17:25	12.4	71.9	0	0	0	0	0	0.006	0.008	
10/25/2018 17:25										42.42905;-76.50134
10/25/2018 17:26			0	0	0	0	0	0.006	0.009	
10/25/2018 17:27			0	0	0	0	0	0.006	0.009	
10/25/2018 17:28			0	0	0	0	0	0.006	0.008	
10/25/2018 17:29			0	0	0	0	0	0.006	0.008	
10/25/2018 17:30	12.4	87	0	0	0	0	0	0.006	0.013	
10/25/2018 17:30										42.42906;-76.50131
10/25/2018 17:31			0	0	0	0	0	0.006	0.007	
10/25/2018 17:32			0	0	0	0	0	0.006	0.007	
10/25/2018 17:33			0	0	0	0	0	0.006	0.007	
10/25/2018 17:34			0	0	0	0	0	0.006	0.007	
10/25/2018 17:35	12.4	81	0	0	0	0	0	0.006	0.007	
10/25/2018 17:35										42.42901;-76.50129
10/25/2018 17:36			0	0	0	0	0	0.006	0.007	
10/25/2018 17:37			0	0	0	0	0	0.006	0.007	
10/25/2018 17:38			0	0	0	0	0	0.006	0.007	
10/25/2018 17:39			0	0	0	0	0	0.006	0.007	
10/25/2018 17:40	12.4	72.9	0	0	0	0	0	0.006	0.007	
10/25/2018 17:40										42.42902;-76.50131
10/25/2018 17:41			0	0	0	0	0	0.006	0.007	
10/25/2018 17:42			0	0	0	0	0	0.006	0.007	
10/25/2018 17:43			0	0	0	0	0	0.006	0.007	
10/25/2018 17:44			0	0	0	0	0	0.006	0.007	
10/25/2018 17:45	12.4	72.9	0	0	0	0	0	0.006	0.007	
10/25/2018 17:45										42.42902;-76.5013
10/25/2018 17:46			0	0	0	0	0	0.006	0.007	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/25/2018 17:47			0	0	0	0	0	0.006	0.007	
10/25/2018 17:48			0	0	0	0	0	0.006	0.007	
10/25/2018 17:49			0	0	0	0	0	0.006	0.007	
10/25/2018 17:50	12.4	71.9	0	0	0	0	0	0.006	0.007	
10/25/2018 17:50										42.42901;-76.5013
10/25/2018 17:51			0	0	0	0	0	0.006	0.007	
10/25/2018 17:52			0	0	0	0	0	0.006	0.007	
10/25/2018 17:53			0	0	0	0	0	0.006	0.007	
10/25/2018 17:54			0	0	0	0	0	0.006	0.007	
10/25/2018 17:55	12.4	71.9	0	0	0	0	0	0.006	0.007	
10/25/2018 17:55										42.42901;-76.5013
10/25/2018 17:56			0	0	0	0	0	0.006	0.007	
10/25/2018 17:57			0	0	0	0	0	0.006	0.007	
10/25/2018 17:58			0	0	0	0	0	0.006	0.007	
10/25/2018 17:59			0	0	0	0	0	0.006	0.007	
10/25/2018 18:00	12.4	72.9	0	0	0	0	0	0.006	0.007	
10/25/2018 18:00										42.42901;-76.5013
10/25/2018 18:01			0	0	0	0	0	0.006	0.007	
10/25/2018 18:02			0	0	0	0	0	0.006	0.007	
10/25/2018 18:03			0	0	0	0	0	0.006	0.007	
10/25/2018 18:04			0	0	0	0	0	0.006	0.007	
10/25/2018 18:05	12.3	72.9	0	0	0	0	0	0.006	0.008	
10/25/2018 18:05										42.42899;-76.50129
10/25/2018 18:06			0	0	0	0	0	0.006	0.008	
10/25/2018 18:07			0	0	0	0	0	0.006	0.008	
10/25/2018 18:08			0	0	0	0	0	0.006	0.008	
10/25/2018 18:09			0	0	0	0	0	0.007	0.008	
10/25/2018 18:10	12.3	71.9	0	0	0	0	0	0.007	0.009	
10/25/2018 18:10										42.42913;-76.50126
10/25/2018 18:11			0	0	0	0	0	0.007	0.009	
10/25/2018 18:12			0	0	0	0	0	0.007	0.009	
10/25/2018 18:13			0	0	0	0	0	0.007	0.009	
10/25/2018 18:14			0	0	0	0	0	0.007	0.009	
10/25/2018 18:15	12.3	77.9	0	0	0	0	0	0.007	0.009	
10/25/2018 18:15										42.429;-76.50125
10/25/2018 18:16			0	0	0	0	0	0.007	0.009	
10/25/2018 18:17			0	0	0	0	0	0.007	0.009	
10/25/2018 18:18			0	0	0	0	0	0.007	0.009	
10/25/2018 18:19			0	0	0	0	0	0.007	0.01	
10/25/2018 18:20	12.3	84	0	0	0	0	0	0.007	0.009	
10/25/2018 18:20										42.42897;-76.50126
10/25/2018 18:21			0	0	0	0	0	0.007	0.009	
10/25/2018 18:22			0	0	0	0	0	0.007	0.009	
10/25/2018 18:23			0	0	0	0	0	0.007	0.009	
10/25/2018 18:24			0	0	0	0	0	0.007	0.009	
10/25/2018 18:25	12.3	72.9	0	0	0	0	0	0.007	0.009	
10/25/2018 18:25										42.42896;-76.50127
10/25/2018 18:26			0	0	0	0	0	0.007	0.009	
10/25/2018 18:27			0	0	0	0	0	0.007	0.009	
10/25/2018 18:28			0	0	0	0	0	0.007	0.009	
10/25/2018 18:29			0	0	0	0	0	0.007	0.009	
10/25/2018 18:30	12.3	76.9	0	0	0	0	0	0.007	0.009	
10/25/2018 18:30										42.42899;-76.50121
10/25/2018 18:31			0	0	0	0	0	0.007	0.009	
10/25/2018 18:32			0	0	0	0	0	0.007	0.009	
10/25/2018 18:33			0	0	0	0	0	0.007	0.01	
10/25/2018 18:34			0	0	0	0	0	0.007	0.01	
10/25/2018 18:35	12.3	76.9	0	0	0	0	0	0.007	0.01	
10/25/2018 18:35										42.42897;-76.50128
10/25/2018 18:36			0	0	0	0	0	0.007	0.01	
10/25/2018 18:37			0	0	0	0	0	0.007	0.01	
10/25/2018 18:38			0	0	0	0	0	0.007	0.01	
10/25/2018 18:39			0	0	0	0	0	0.007	0.01	
10/25/2018 18:40	12.3	73.9	0	0	0	0	0	0.007	0.01	
10/25/2018 18:40										42.42902;-76.50125
10/25/2018 18:41			0	0	0	0	0	0.007	0.01	
10/25/2018 18:42			0	0	0	0	0	0.007	0.01	
10/25/2018 18:43			0	0	0	0	0	0.007	0.01	
10/25/2018 18:44			0	0	0	0	0	0.007	0.01	
10/25/2018 18:45	12.3	75.9	0	0	0	0	0	0.007	0.01	
10/25/2018 18:45										42.42899;-76.5013
10/25/2018 18:46			0	0	0	0	0	0.007	0.01	
10/25/2018 18:47			0	0	0	0	0	0.007	0.01	
10/25/2018 18:48			0	0	0	0	0	0.007	0.01	
10/25/2018 18:49			0	0	0	0	0	0.007	0.01	
10/25/2018 18:50	12.3	91.1	0	0	0	0	0	0.007	0.01	
10/25/2018 18:50										42.42903;-76.50129
10/25/2018 18:51			0	0	0	0	0	0.007	0.01	
10/25/2018 18:52			0	0	0	0	0	0.007	0.01	
10/25/2018 18:53			0	0	0	0	0	0.007	0.01	
10/25/2018 18:54			0	0	0	0	0	0.007	0.01	
10/25/2018 18:55	12.3	81	0	0	0	0	0	0.007	0.01	
10/25/2018 18:55										42.429;-76.50127
10/25/2018 18:56			0	0	0	0	0	0.007	0.01	
10/25/2018 18:57			0	0	0	0	0	0.007	0.01	
10/25/2018 18:58			0	0	0	0	0	0.007	0.01	
10/25/2018 18:59			0	0	0	0	0	0.007	0.01	
10/25/2018 19:00	12.3	72.9	0	0	0	0	0	0.008	0.009	
10/25/2018 19:00										42.429;-76.50127
10/25/2018 19:01			0	0	0	0	0	0.008	0.009	
10/25/2018 19:02			0	0	0	0	0	0.008	0.009	
10/25/2018 19:03			0	0	0	0	0	0.008	0.009	
10/25/2018 19:04			0	0	0	0	0	0.008	0.01	
10/25/2018 19:05	12.3	84	0	0	0	0	0	0.008	0.01	
10/25/2018 19:05										42.42894;-76.50128
10/25/2018 19:06			0	0	0	0	0	0.008	0.01	
10/25/2018 19:07			0	0	0	0	0	0.008	0.01	
10/25/2018 19:08			0	0	0	0	0	0.008	0.01	
10/25/2018 19:09			0	0	0	0	0	0.008	0.011	
10/25/2018 19:10	12.3	104.3	0	0	0	0	0	0.008	0.01	
10/25/2018 19:10										42.429;-76.50128
10/25/2018 19:11			0	0	0	0	0	0.008	0.01	
10/25/2018 19:12			0	0	0	0	0	0.008	0.009	
10/25/2018 19:13			0	0	0	0	0	0.008	0.009	
10/25/2018 19:14			0	0	0	0	0	0.008	0.009	
10/25/2018 19:15	12.3	75.9	0	0	0	0	0	0.008	0.009	
10/25/2018 19:15										42.429;-76.50127
10/25/2018 19:16			0	0	0	0	0	0.008	0.009	
10/25/2018 19:17			0	0	0	0	0	0.008	0.009	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/25/2018 19:18			0	0	0	0	0	0.008	0.009	
10/25/2018 19:19			0	0	0	0	0	0.008	0.01	
10/25/2018 19:20	12.2	73.9	0	0	0	0	0	0.008	0.011	
10/25/2018 19:20										42.429;-76.50126
10/25/2018 19:21			0	0	0	0	0	0.008	0.009	
10/25/2018 19:22			0	0	0	0	0	0.008	0.01	
10/25/2018 19:23			0	0	0	0	0	0.008	0.009	
10/25/2018 19:24			0	0	0	0	0	0.008	0.01	
10/25/2018 19:25	12.2	74.9	0	0	0	0	0	0.008	0.009	
10/25/2018 19:25										42.42894;-76.50123
10/25/2018 19:26			0	0	0	0	0	0.008	0.008	
10/25/2018 19:27			0	0	0	0	0	0.008	0.008	
10/25/2018 19:28			0	0	0	0	0	0.008	0.009	
10/25/2018 19:29			0	0	0	0	0	0.008	0.008	
10/25/2018 19:30	12.2	80	0	0	0	0	0	0.008	0.013	
10/25/2018 19:30										42.42902;-76.50123
10/25/2018 19:31			0	0	0	0	0	0.008	0.008	
10/25/2018 19:32			0	0	0	0	0	0.008	0.008	
10/25/2018 19:33			0	0	0	0	0	0.008	0.008	
10/25/2018 19:34			0	0	0	0	0	0.008	0.008	
10/25/2018 19:35	12.2	74.9	0	0	0	0	0	0.008	0.008	
10/25/2018 19:35										42.42898;-76.50124
10/25/2018 19:36			0	0	0	0	0	0.008	0.008	
10/25/2018 19:37			0	0	0	0	0	0.008	0.008	
10/25/2018 19:38			0	0	0	0	0	0.008	0.009	
10/25/2018 19:39			0	0	0	0	0	0.008	0.009	
10/25/2018 19:40	12.2	73.9	0	0	0	0	0	0.008	0.008	
10/25/2018 19:40										42.42901;-76.50127
10/25/2018 19:41			0	0	0	0	0	0.008	0.008	
10/25/2018 19:42			0	0	0	0	0	0.008	0.008	
10/25/2018 19:43			0	0	0	0	0	0.008	0.008	
10/25/2018 19:44			0	0	0	0	0	0.008	0.008	
10/25/2018 19:45	12.2	74.9	0	0	0	0	0	0.008	0.008	
10/25/2018 19:45										42.429;-76.50133
10/25/2018 19:46			0	0	0	0	0	0.008	0.008	
10/25/2018 19:47			0	0	0	0	0	0.008	0.008	
10/25/2018 19:48			0	0	0	0	0	0.008	0.008	
10/25/2018 19:49			0	0	0	0	0	0.008	0.008	
10/25/2018 19:50	12.2	74.9	0	0	0	0	0	0.008	0.008	
10/25/2018 19:50										42.429;-76.50126
10/25/2018 19:51			0	0	0	0	0	0.008	0.008	
10/25/2018 19:52			0	0	0	0	0	0.008	0.008	
10/25/2018 19:53			0	0	0	0	0	0.009	0.008	
10/25/2018 19:54			0	0	0	0	0	0.009	0.009	
10/25/2018 19:55	12.2	98.2	0	0	0	0	0	0.009	0.008	
10/25/2018 19:55										42.429;-76.50125
10/25/2018 19:56			0	0	0	0	0	0.009	0.008	
10/25/2018 19:57			0	0	0	0	0	0.009	0.008	
10/25/2018 19:58			0	0	0	0	0	0.009	0.008	
10/25/2018 19:59			0	0	0	0	0	0.009	0.008	
10/25/2018 20:00	12.2	77.9	0	0	0	0	0	0.009	0.008	
10/25/2018 20:00										42.42899;-76.50127
10/25/2018 20:01			0	0	0	0	0	0.009	0.008	
10/25/2018 20:02			0	0	0	0	0	0.009	0.007	
10/25/2018 20:03			0	0	0	0	0	0.009	0.007	
10/25/2018 20:04			0	0	0	0	0	0.009	0.007	
10/25/2018 20:05	12.2	84	0	0	0	0	0	0.009	0.008	
10/25/2018 20:05										42.42896;-76.50128
10/25/2018 20:06			0	0	0	0	0	0.009	0.008	
10/25/2018 20:07			0	0	0	0	0	0.009	0.007	
10/25/2018 20:08			0	0	0	0	0	0.009	0.008	
10/25/2018 20:09			0	0	0	0	0	0.009	0.009	
10/25/2018 20:10	12.2	95.1	0	0	0	0	0	0.009	0.008	
10/25/2018 20:10										42.42897;-76.50126
10/25/2018 20:11			0	0	0	0	0	0.009	0.008	
10/25/2018 20:12			0	0	0	0	0	0.009	0.008	
10/25/2018 20:13			0	0	0	0	0	0.009	0.01	
10/25/2018 20:14			0	0	0	0	0	0.009	0.008	
10/25/2018 20:15	12.2	81	0	0	0	0	0	0.009	0.007	
10/25/2018 20:15										42.42898;-76.50124
10/25/2018 20:16			0	0	0	0	0	0.009	0.007	
10/25/2018 20:17			0	0	0	0	0	0.009	0.008	
10/25/2018 20:18			0	0	0	0	0	0.009	0.008	
10/25/2018 20:19			0	0	0	0	0	0.009	0.007	
10/25/2018 20:20	12.2	74.9	0	0	0	0	0	0.009	0.007	
10/25/2018 20:20										42.42894;-76.50125
10/25/2018 20:21			0	0	0	0	0	0.009	0.007	
10/25/2018 20:22			0	0	0	0	0	0.009	0.007	
10/25/2018 20:23			0	0	0	0	0	0.009	0.007	
10/25/2018 20:24			0	0	0	0	0	0.009	0.007	
10/25/2018 20:25	12.2	95.1	0	0	0	0	0	0.009	0.008	
10/25/2018 20:25										42.42894;-76.50125
10/25/2018 20:26			0	0	0	0	0	0.009	0.008	
10/25/2018 20:27			0	0	0	0	0	0.009	0.007	
10/25/2018 20:28			0	0	0	0	0	0.009	0.012	
10/25/2018 20:29			0	0	0	0	0	0.009	0.008	
10/25/2018 20:30	12.2	90.1	0	0	0	0	0	0.009	0.009	
10/25/2018 20:30										42.42893;-76.50132
10/25/2018 20:31			0	0	0	0	0	0.009	0.009	
10/25/2018 20:32			0	0.002	0	0	0	0.009	0.011	
10/25/2018 20:33			0	0.002	0	0	0	0.009	0.01	
10/25/2018 20:34			0	0.002	0	0	0	0.009	0.01	
10/25/2018 20:35	12.2	72.9	0	0.002	0	0	0	0.009	0.012	
10/25/2018 20:35										42.42891;-76.50129
10/25/2018 20:36			0	0.002	0	0	0	0.009	0.01	
10/25/2018 20:37			0	0.002	0	0	0	0.009	0.008	
10/25/2018 20:38			0	0.002	0	0	0	0.009	0.009	
10/25/2018 20:39			0	0.002	0	0	0	0.009	0.008	
10/25/2018 20:40	12.2	95.1	0	0.002	0	0	0	0.009	0.008	
10/25/2018 20:40										42.42896;-76.50125
10/25/2018 20:41			0	0.002	0	0	0	0.009	0.01	
10/25/2018 20:42			0	0.002	0	0	0	0.009	0.009	
10/25/2018 20:43			0	0.002	0	0	0	0.009	0.008	
10/25/2018 20:44			0	0.002	0	0	0	0.009	0.007	
10/25/2018 20:45	12.2	90.1	0	0.002	0	0	0	0.009	0.007	
10/25/2018 20:45										42.42894;-76.5013
10/25/2018 20:46			0	0.002	0	0	0	0.009	0.009	
10/25/2018 20:47			0	0.002	0	0	0	0.009	0.008	
10/25/2018 20:48			0	0.002	0	0	0	0.009	0.007	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/25/2018 20:49			0	0.002	0	0	0	0.009	0.007	
10/25/2018 20:50	12.2	84	0	0.002	0	0	0	0.009	0.007	
10/25/2018 20:50										42.429;-76.50136
10/25/2018 20:51			0	0.002	0	0	0	0.009	0.007	
10/25/2018 20:52			0	0.002	0	0	0	0.009	0.007	
10/25/2018 20:53			0	0.002	0	0	0	0.009	0.007	
10/25/2018 20:54			0	0.002	0	0	0	0.009	0.007	
10/25/2018 20:55	12.2	82	0	0.002	0	0	0	0.009	0.007	
10/25/2018 20:55										42.42904;-76.50138
10/25/2018 20:56			0	0.002	0	0	0	0.009	0.006	
10/25/2018 20:57			0	0.002	0	0	0	0.009	0.006	
10/25/2018 20:58			0	0.002	0	0	0	0.009	0.006	
10/25/2018 20:59			0	0.002	0	0	0	0.009	0.007	
10/25/2018 21:00	12.2	72.9	0	0.002	0	0	0	0.009	0.007	
10/25/2018 21:00										42.42898;-76.5013
10/25/2018 21:01			0	0.002	0	0	0	0.009	0.007	
10/25/2018 21:02			0	0.002	0	0	0	0.009	0.007	
10/26/2018 11:30	12.9	97.2								
10/26/2018 11:33								0	0.016	
10/26/2018 11:34								0	0.018	
10/26/2018 11:35	12.7	71.9						0	0.018	
10/26/2018 11:36			0	0	0	0	0	0	0.019	
10/26/2018 11:37			0	0	0	0	0	0	0.016	
10/26/2018 12:13	12.9	95.1								
10/26/2018 12:14			0	0	0	0	0			
10/26/2018 12:15	12.8	70.9	0	0	0	0	0			
10/26/2018 12:15										42.42891;-76.5009
10/26/2018 12:16			0	0	0	0	0			
10/26/2018 12:17			0	0	0	0	0	0		
10/26/2018 12:18			0	0	0	0	0	0	0.015	
10/26/2018 12:19			0	0	0	0	0	0	0.013	
10/26/2018 12:20	12.7	87	0	0	0	0	0	0	0.013	
10/26/2018 12:20										42.42876;-76.50104
10/26/2018 12:21			0	0	0	0	0	0	0.013	
10/26/2018 12:22			0	0	0	0	0	0	0.015	
10/26/2018 12:23			0	0	0	0	0	0	0.014	
10/26/2018 12:24			0	0	0	0	0	0	0.014	
10/26/2018 12:25	12.7	69.8	0	0	0	0	0	0	0.014	
10/26/2018 12:25										42.42885;-76.50098
10/26/2018 12:26			0	0	0	0	0	0	0.014	
10/26/2018 12:27			0	0	0	0	0	0	0.015	
10/26/2018 12:28			0	0	0	0	0	0	0.015	
10/26/2018 12:29			0	0	0	0	0	0	0.014	
10/26/2018 12:30	12.7	70.9	0	0	0	0	0	0	0.014	
10/26/2018 12:30										42.42885;-76.50095
10/26/2018 12:31			0	0	0	0	0	0	0.015	
10/26/2018 12:32			0	0	0	0	0	0	0.015	
10/26/2018 12:33			0	0	0	0	0	0	0.015	
10/26/2018 12:34			0	0	0	0	0	0.001	0.015	
10/26/2018 12:35	12.7	71.9	0	0	0	0	0	0.001	0.015	42.42887;-76.50099
10/26/2018 12:36			0	0	0	0	0	0.001	0.016	
10/26/2018 12:37			0	0	0	0	0	0.001	0.016	
10/26/2018 12:38			0	0	0	0	0	0.001	0.017	
10/26/2018 12:39			0	0	0	0	0	0.001	0.017	
10/26/2018 12:40	12.7	71.9	0	0	0	0	0	0.001	0.017	42.42887;-76.50096
10/26/2018 12:41			0	0	0	0	0	0.001	0.017	
10/26/2018 12:42			0	0	0	0	0	0.001	0.017	
10/26/2018 12:43			0	0	0	0	0	0.001	0.017	
10/26/2018 12:44			0	0	0	0	0	0.001	0.016	
10/26/2018 12:45	12.7	69.8	0	0	0	0	0	0.001	0.016	42.42873;-76.50101
10/26/2018 12:46			0	0	0	0	0	0.001	0.016	
10/26/2018 12:47			0	0	0	0	0	0.001	0.017	
10/26/2018 12:48			0	0	0	0	0	0.001	0.016	
10/26/2018 12:49			0	0	0	0	0	0.001	0.015	
10/26/2018 12:50	12.7	80	0	0	0	0	0	0.001	0.015	42.42884;-76.50097
10/26/2018 12:51			0	0	0	0	0	0.001	0.018	
10/26/2018 12:52			0	0	0	0	0	0.001	0.018	
10/26/2018 12:53			0	0	0	0	0	0.001	0.018	
10/26/2018 12:54			0	0	0	0	0	0.001	0.016	
10/26/2018 12:55	12.7	70.9	0	0	0	0	0	0.001	0.018	42.42886;-76.50095
10/26/2018 12:56			0	0	0	0	0	0.001	0.018	
10/26/2018 12:57			0	0	0	0	0	0.001	0.017	
10/26/2018 12:58			0	0	0	0	0	0.001	0.017	
10/26/2018 12:59			0	0	0	0	0	0.001	0.015	
10/26/2018 13:00	12.7	72.9	0	0	0	0	0	0.001	0.015	42.42879;-76.50096
10/26/2018 13:01			0	0	0	0	0	0.001	0.015	
10/26/2018 13:02			0	0	0	0	0	0.001	0.016	
10/26/2018 13:03			0	0	0	0	0	0.001	0.017	
10/26/2018 13:04			0	0	0	0	0	0.002	0.017	
10/26/2018 13:05	12.7	76.9	0	0	0	0	0	0.002	0.017	42.4288;-76.50095
10/26/2018 13:06			0	0	0	0	0	0.002	0.016	
10/26/2018 13:07			0	0	0	0	0	0.002	0.016	
10/26/2018 13:08			0	0	0	0	0	0.002	0.015	
10/26/2018 13:09			0	0	0	0	0	0.002	0.014	
10/26/2018 13:10	12.7	72.9	0	0	0	0	0	0.002	0.015	42.42887;-76.50101
10/26/2018 13:11			0	0	0	0	0	0.002	0.014	
10/26/2018 13:12			0	0	0	0	0	0.002	0.014	
10/26/2018 13:13			0	0	0	0	0	0.002	0.014	
10/26/2018 13:14			0	0	0	0	0	0.002	0.014	
10/26/2018 13:15	12.7	71.9	0	0	0	0	0	0.002	0.015	42.42888;-76.50101
10/26/2018 13:16			0	0	0	0	0	0.002	0.015	
10/26/2018 13:17			0	0	0	0	0	0.002	0.016	
10/26/2018 13:18			0	0	0	0	0	0.002	0.018	
10/26/2018 13:19			0	0	0	0	0	0.002	0.019	
10/26/2018 13:20	12.7	73.9	0	0	0	0	0	0.002	0.025	42.42887;-76.50096
10/26/2018 13:21			0	0	0	0	0	0.002	0.029	
10/26/2018 13:22			0	0	0	0	0	0.002	0.027	
10/26/2018 13:23			0	0	0	0	0	0.002	0.025	
10/26/2018 13:24			0	0	0	0	0	0.002	0.022	
10/26/2018 13:25	12.7	73.9	0	0	0	0	0	0.002	0.021	42.42894;-76.50097
10/26/2018 13:26			0	0	0	0	0	0.002	0.02	
10/26/2018 13:27			0	0	0	0	0	0.002	0.02	
10/26/2018 13:28			0	0	0	0	0	0.002	0.019	
10/26/2018 13:29			0	0	0	0	0	0.002	0.019	
10/26/2018 13:30	12.7	70.9	0	0	0	0	0	0.003	0.018	42.4289;-76.5009
10/26/2018 13:31			0	0	0	0	0	0.003	0.018	
10/26/2018 13:32			0	0	0	0	0	0.003	0.019	
10/26/2018 13:33			0	0	0	0	0	0.003	0.018	
10/26/2018 13:34			0	0	0	0	0	0.003	0.019	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/26/2018 13:35	12.6	70.9	0	0	0	0	0	0.003	0.018	42.4289;-76.50096
10/26/2018 13:36			0	0	0	0	0	0.003	0.017	
10/26/2018 13:37			0	0	0	0	0	0.003	0.017	
10/26/2018 13:38			0	0	0	0	0	0.003	0.017	
10/26/2018 13:39			0	0	0	0	0	0.003	0.016	
10/26/2018 13:40	12.6	70.9	0	0	0	0	0	0.003	0.016	42.4289;-76.501
10/26/2018 13:41			0	0	0	0	0	0.003	0.016	
10/26/2018 13:42			0	0	0	0	0	0.003	0.017	
10/26/2018 13:43			0	0	0	0	0	0.003	0.016	
10/26/2018 13:44			0	0	0	0	0	0.003	0.017	
10/26/2018 13:45	12.6	70.9	0	0	0	0	0	0.003	0.016	42.42888;-76.50099
10/26/2018 13:46			0	0	0	0	0	0.003	0.016	
10/26/2018 13:47			0	0	0	0	0	0.003	0.016	
10/26/2018 13:48			0	0	0	0	0	0.003	0.016	
10/26/2018 13:49			0	0	0	0	0	0.003	0.016	
10/26/2018 13:50	12.6	71.9	0	0	0	0	0	0.003	0.017	42.42887;-76.50102
10/26/2018 13:51			0	0	0	0	0	0.003	0.016	
10/26/2018 13:52			0	0	0	0	0	0.003	0.013	
10/26/2018 13:53			0	0	0	0	0	0.003	0.012	
10/26/2018 13:54			0	0	0	0	0	0.003	0.011	
10/26/2018 13:55	12.6	70.9	0	0	0	0	0	0.003	0.011	42.42892;-76.50096
10/26/2018 13:56			0	0	0	0	0	0.003	0.011	
10/26/2018 13:57			0	0	0	0	0	0.003	0.011	
10/26/2018 13:58			0	0	0	0	0	0.003	0.011	
10/26/2018 13:59			0	0	0	0	0	0.003	0.011	
10/26/2018 14:00	12.6	80	0	0	0	0	0	0.003	0.01	42.42887;-76.50095
10/26/2018 14:01			0	0	0	0	0	0.003	0.01	
10/26/2018 14:02			0	0	0	0	0	0.004	0.01	
10/26/2018 14:03			0	0	0	0	0	0.004	0.01	
10/26/2018 14:04			0	0	0	0	0	0.004	0.01	
10/26/2018 14:05	12.6	70.9	0	0	0	0	0	0.004	0.01	42.42891;-76.50097
10/26/2018 14:06			0	0	0	0	0	0.004	0.013	
10/26/2018 14:07			0	0	0	0	0	0.004	0.014	
10/26/2018 14:08			0	0	0	0	0	0.004	0.011	
10/26/2018 14:09			0	0	0	0	0	0.004	0.011	
10/26/2018 14:10	12.6	71.9	0	0	0	0	0	0.004	0.01	42.4289;-76.50106
10/26/2018 14:11			0	0	0	0	0	0.004	0.01	
10/26/2018 14:12			0	0	0	0	0	0.004	0.01	
10/26/2018 14:13			0	0	0	0	0	0.004	0.009	
10/26/2018 14:14			0	0	0	0	0	0.004	0.009	
10/26/2018 14:15	12.6	70.9	0	0	0	0	0	0.004	0.009	42.42893;-76.50109
10/26/2018 14:16			0	0	0	0	0	0.004	0.009	
10/26/2018 14:17			0	0	0	0	0	0.004	0.009	
10/26/2018 14:18			0	0	0	0	0	0.004	0.009	
10/26/2018 14:19			0	0	0	0	0	0.004	0.01	
10/26/2018 14:20	12.6	71.9	0	0	0	0	0	0.004	0.01	42.42896;-76.50114
10/26/2018 14:21			0	0	0	0	0	0.004	0.01	
10/26/2018 14:22			0	0	0	0	0	0.004	0.01	
10/26/2018 14:23			0	0	0	0	0	0.004	0.01	
10/26/2018 14:24			0	0	0	0	0	0.004	0.011	
10/26/2018 14:25	12.6	88.1	0	0	0	0	0	0.004	0.019	42.42896;-76.50104
10/26/2018 14:26			0	0	0	0	0	0.004	0.014	
10/26/2018 14:27			0	0	0	0	0	0.004	0.01	
10/26/2018 14:28			0	0	0	0	0	0.004	0.01	
10/26/2018 14:29			0	0	0	0	0	0.004	0.01	
10/26/2018 14:30	12.6	72.9	0	0	0	0	0	0.004	0.011	42.42904;-76.50107
10/26/2018 14:31			0	0	0	0	0	0.004	0.012	
10/26/2018 14:32			0	0	0	0	0	0.004	0.011	
10/26/2018 14:33			0	0	0	0	0	0.004	0.01	
10/26/2018 14:34			0	0	0	0	0	0.004	0.01	
10/26/2018 14:35	12.6	72.9	0	0	0	0	0	0.004	0.01	42.42898;-76.50105
10/26/2018 14:36			0	0	0	0	0	0.004	0.009	
10/26/2018 14:37			0	0	0	0	0	0.004	0.009	
10/26/2018 14:38			0	0	0	0	0	0.004	0.009	
10/26/2018 14:39			0	0	0	0	0	0.004	0.009	
10/26/2018 14:40	12.6	70.9	0	0	0	0	0	0.004	0.009	42.42904;-76.50098
10/26/2018 14:41			0	0	0	0	0	0.004	0.009	
10/26/2018 14:42			0	0	0	0	0	0.004	0.009	
10/26/2018 14:43			0	0	0	0	0	0.004	0.009	
10/26/2018 14:44			0	0	0	0	0	0.004	0.009	
10/26/2018 14:45	12.6	81	0	0	0	0	0	0.004	0.01	42.42905;-76.50097
10/26/2018 14:46			0	0	0	0	0	0.004	0.01	
10/26/2018 14:47			0	0	0	0	0	0.004	0.01	
10/26/2018 14:48			0	0	0	0	0	0.005	0.009	
10/26/2018 14:49			0	0	0	0	0	0.005	0.009	
10/26/2018 14:50	12.6	71.9	0	0	0	0	0	0.005	0.009	42.42898;-76.50097
10/26/2018 14:51			0	0	0	0	0	0.005	0.009	
10/26/2018 14:52			0	0	0	0	0	0.005	0.009	
10/26/2018 14:53			0	0	0	0	0	0.005	0.009	
10/26/2018 14:54			0	0	0	0	0	0.005	0.048	
10/26/2018 14:55	12.6	71.9	0	0	0	0	0	0.005	0.018	42.42889;-76.50083
10/26/2018 14:56			0	0	0	0	0	0.005	0.012	
10/26/2018 14:57			0	0	0	0	0	0.005	0.01	
10/26/2018 14:58			0	0	0	0	0	0.005	0.009	
10/26/2018 14:59			0	0	0	0	0	0.005	0.009	
10/26/2018 15:00	12.6	71.9	0	0	0	0	0	0.005	0.009	42.42895;-76.50085
10/26/2018 15:01			0	0	0	0	0	0.005	0.009	
10/26/2018 15:02			0	0	0	0	0	0.005	0.009	
10/26/2018 15:03			0	0	0	0	0	0.005	0.01	
10/26/2018 15:04			0	0	0	0	0	0.005	0.012	
10/26/2018 15:05	12.6	71.9	0	0	0	0	0	0.005	0.01	42.42897;-76.50088
10/26/2018 15:06			0	0	0	0	0	0.005	0.009	
10/26/2018 15:07			0	0	0	0	0	0.005	0.009	
10/26/2018 15:08			0	0	0	0	0	0.005	0.009	
10/26/2018 15:09			0	0	0	0	0	0.005	0.009	
10/26/2018 15:10	12.6	74.9	0	0	0	0	0	0.005	0.008	42.42899;-76.50089
10/26/2018 15:11			0	0	0	0	0	0.005	0.008	
10/26/2018 15:12			0	0	0	0	0	0.005	0.008	
10/26/2018 15:13			0	0	0	0	0	0.005	0.008	
10/26/2018 15:14			0	0	0	0	0	0.005	0.008	
10/26/2018 15:15	12.5	74.9	0	0	0	0	0	0.005	0.008	42.42893;-76.50093
10/26/2018 15:16			0	0	0	0	0	0.005	0.008	
10/26/2018 15:17			0	0	0	0	0	0.005	0.008	
10/26/2018 15:18			0	0	0	0	0	0.005	0.008	
10/26/2018 15:19			0	0	0	0	0	0.005	0.008	
10/26/2018 15:20	12.5	71.9	0	0	0	0	0	0.005	0.008	42.42896;-76.50097
10/26/2018 15:21			0	0	0	0	0	0.005	0.008	
10/26/2018 15:22			0	0	0	0	0	0.005	0.008	
10/26/2018 15:23			0	0	0	0	0	0.005	0.008	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/26/2018 15:24			0	0	0	0	0	0.005	0.008	
10/26/2018 15:25	12.5	71.9	0	0	0	0	0	0.005	0.008	42.42902;-76.50092
10/26/2018 15:26			0	0	0	0	0	0.005	0.008	
10/26/2018 15:27			0	0	0	0	0	0.005	0.008	
10/26/2018 15:28			0	0	0	0	0	0.005	0.008	
10/26/2018 15:29			0	0	0	0	0	0.005	0.008	
10/26/2018 15:30	12.5	72.9	0	0	0	0	0	0.005	0.008	42.42906;-76.50091
10/26/2018 15:31			0	0	0	0	0	0.005	0.008	
10/26/2018 15:32			0	0	0	0	0	0.005	0.008	
10/26/2018 15:33			0	0	0	0	0	0.005	0.009	
10/26/2018 15:34			0	0	0	0	0	0.005	0.009	
10/26/2018 15:35	12.5	82	0	0	0	0	0	0.005	0.009	42.42904;-76.50083
10/26/2018 15:36			0	0	0	0	0	0.005	0.008	
10/26/2018 15:37			0	0	0	0	0	0.005	0.008	
10/26/2018 15:38			0	0	0	0	0	0.006	0.008	
10/26/2018 15:39			0	0	0	0	0	0.006	0.008	
10/26/2018 15:40	12.5	73.9	0	0	0	0	0	0.006	0.008	42.42892;-76.50086
10/26/2018 15:41			0	0	0	0	0	0.006	0.008	
10/26/2018 15:42			0	0	0	0	0	0.006	0.008	
10/26/2018 15:43			0	0	0	0	0	0.006	0.008	
10/26/2018 15:44			0	0	0	0	0	0.006	0.008	
10/26/2018 15:45	12.5	70.9	0	0	0	0	0	0.006	0.008	42.42883;-76.50092
10/26/2018 15:46			0	0	0	0	0	0.006	0.008	
10/26/2018 15:47			0	0	0	0	0	0.006	0.008	
10/26/2018 15:48			0	0	0	0	0	0.006	0.008	
10/26/2018 15:49			0	0	0	0	0	0.006	0.008	
10/26/2018 15:50	12.5	71.9	0	0	0	0	0	0.006	0.008	42.42897;-76.50085
10/26/2018 15:51			0	0	0	0	0	0.006	0.009	
10/26/2018 15:52			0	0	0	0	0	0.006	0.008	
10/26/2018 15:53			0	0	0	0	0	0.006	0.008	
10/26/2018 15:54			0	0	0	0	0	0.006	0.008	
10/26/2018 15:55	12.5	71.9	0	0	0	0	0	0.006	0.008	42.42899;-76.5009
10/26/2018 15:56			0	0	0	0	0	0.006	0.024	
10/26/2018 15:57			0	0	0	0	0	0.006	0.024	
10/26/2018 15:58			0	0	0	0	0	0.006	0.011	
10/26/2018 15:59			0	0	0	0	0	0.006	0.1	
10/26/2018 16:00	12.5	79	0	0	0	0	0	0.006	0.085	42.43222;-76.49706
10/26/2018 16:01			0	0	0	0	0	0.006	0.03	
10/26/2018 16:02			0	0	0	0	0	0.006	0.015	
10/26/2018 16:03			0	0	0	0	0	0.006	0.008	
10/26/2018 16:04			0	0	0	0	0	0.006	0.008	
10/26/2018 16:05	12.4	74.9	0	0	0	0	0	0.006	0.008	42.43219;-76.49836
10/26/2018 16:06			0	0	0	0	0	0.006	0.008	
10/26/2018 16:07			0	0	0	0	0	0.006	0.008	
10/26/2018 16:08			0	0	0	0	0	0.006	0.008	
10/26/2018 16:09			0	0	0	0	0	0.007	0.008	
10/26/2018 16:10	12.4	76.9	0	0	0	0	0	0.007	0.008	42.43184;-76.49844
10/26/2018 16:11			0	0	0	0	0	0.007	0.008	
10/26/2018 16:12			0	0	0	0	0	0.007	0.008	
10/26/2018 16:13			0	0	0	0	0	0.007	0.008	
10/26/2018 16:14			0	0	0	0	0	0.007	0.008	
10/26/2018 16:15	12.4	70.9	0	0	0	0	0	0.007	0.008	42.43193;-76.49845
10/26/2018 16:16			0	0	0	0	0	0.007	0.008	
10/26/2018 16:17			0	0	0	0	0	0.007	0.008	
10/26/2018 16:18			0	0	0	0	0	0.007	0.008	
10/26/2018 16:19			0	0	0	0	0	0.007	0.008	
10/26/2018 16:20	12.4	81	0	0	0	0	0	0.007	0.008	42.43207;-76.49838
10/26/2018 16:21			0	0	0	0	0	0.007	0.008	
10/26/2018 16:22			0	0	0	0	0	0.007	0.008	
10/26/2018 16:23			0	0	0	0	0	0.007	0.008	
10/26/2018 16:24			0	0	0	0	0	0.007	0.008	
10/26/2018 16:25	12.4	80	0	0	0	0	0	0.007	0.008	42.43207;-76.49837
10/26/2018 16:26			0	0	0	0	0	0.007	0.008	
10/26/2018 16:27			0	0	0	0	0	0.007	0.008	
10/26/2018 16:28			0	0	0	0	0	0.007	0.008	
10/26/2018 16:29			0	0	0	0	0	0.007	0.008	
10/26/2018 16:30	12.4	89.1	0	0	0	0	0	0.007	0.008	42.43206;-76.49837
10/26/2018 16:31			0	0	0	0	0	0.007	0.008	
10/26/2018 16:32			0	0	0	0	0	0.007	0.008	
10/26/2018 16:33			0	0	0	0	0	0.007	0.008	
10/26/2018 16:34			0	0	0	0	0	0.007	0.008	
10/26/2018 16:35	12.4	75.9	0	0	0	0	0	0.007	0.008	42.43207;-76.49838
10/26/2018 16:36			0	0	0	0	0	0.007	0.008	
10/26/2018 16:37			0	0	0	0	0	0.007	0.008	
10/26/2018 16:38			0	0	0	0	0	0.007	0.008	
10/26/2018 16:39			0	0	0	0	0	0.007	0.008	
10/26/2018 16:40	12.4	73.9	0	0	0	0	0	0.007	0.008	42.4321;-76.49837
10/26/2018 16:41			0	0	0	0	0	0.007	0.008	
10/26/2018 16:42			0	0	0	0	0	0.007	0.008	
10/26/2018 16:43			0	0	0	0	0	0.007	0.008	
10/26/2018 16:44			0	0	0	0	0	0.007	0.008	
10/26/2018 16:45	12.4	75.9	0	0	0	0	0	0.007	0.008	42.43214;-76.49839
10/26/2018 16:46			0	0	0	0	0	0.007	0.008	
10/26/2018 16:47			0	0	0	0	0	0.007	0.008	
10/26/2018 16:48			0	0	0	0	0	0.007	0.008	
10/26/2018 16:49			0	0	0	0	0	0.007	0.008	
10/26/2018 16:50	12.4	74.9	0	0	0	0	0	0.007	0.008	42.43207;-76.49836
10/26/2018 16:51			0	0	0	0	0	0.007	0.008	
10/26/2018 16:52			0	0	0	0	0	0.007	0.008	
10/26/2018 16:53			0	0	0	0	0	0.007	0.008	
10/26/2018 16:54			0	0	0	0	0	0.007	0.008	
10/26/2018 16:55	12.4	74.9	0	0	0	0	0	0.007	0.008	42.43214;-76.49841
10/26/2018 16:56			0	0	0	0	0	0.007	0.008	
10/26/2018 16:57			0	0	0	0	0	0.007	0.008	
10/26/2018 16:58			0	0	0	0	0	0.007	0.008	
10/26/2018 16:59			0	0	0	0	0	0.007	0.008	
10/26/2018 17:00	12.4	73.9	0	0	0	0	0	0.007	0.007	42.43215;-76.49841
10/26/2018 17:01			0	0	0	0	0	0.007	0.007	
10/26/2018 17:02			0	0	0	0	0	0.007	0.008	
10/26/2018 17:03			0	0	0	0	0	0.007	0.008	
10/26/2018 17:04			0	0	0	0	0	0.007	0.008	
10/26/2018 17:05	12.4	72.9	0	0	0	0	0	0.007	0.007	42.43219;-76.4985
10/26/2018 17:06			0	0	0	0	0	0.007	0.007	
10/26/2018 17:07			0	0	0	0	0	0.007	0.007	
10/26/2018 17:08			0	0	0	0	0	0.007	0.011	
10/26/2018 17:09			0	0	0	0	0	0.007	0.008	
10/26/2018 17:10	12.4	90.1	0	0	0	0	0	0.008	0.008	42.43219;-76.49847
10/26/2018 17:11			0	0	0	0	0	0.008	0.008	
10/26/2018 17:12			0	0	0	0	0	0.008	0.012	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/26/2018 17:13			0	0	0	0	0	0.008	0.008	
10/26/2018 17:14			0	0	0	0	0	0.008	0.008	
10/26/2018 17:15	12.4	83	0	0	0	0	0	0.008	0.009	42.43208;-76.49837
10/26/2018 17:16			0	0	0	0	0	0.008	0.008	
10/26/2018 17:17			0	0	0	0	0	0.008	0.008	
10/26/2018 17:18			0	0	0	0	0	0.008	0.008	
10/26/2018 17:19			0	0	0	0	0	0.008	0.008	
10/26/2018 17:20	12.4	83	0	0	0	0	0	0.008	0.008	42.43212;-76.49838
10/26/2018 17:21			0	0	0	0	0	0.008	0.007	
10/26/2018 17:22			0	0	0	0	0	0.008	0.008	
10/26/2018 17:23			0	0	0	0	0	0.008	0.008	
10/26/2018 17:24			0	0	0	0	0	0.008	0.008	
10/26/2018 17:25	12.4	74.9	0	0	0	0	0	0.008	0.008	42.43213;-76.49839
10/26/2018 17:26			0	0	0	0	0	0.008	0.008	
10/26/2018 17:27			0	0	0	0	0	0.008	0.008	
10/26/2018 17:28			0	0	0	0	0	0.008	0.008	
10/26/2018 17:29			0	0	0	0	0	0.008	0.008	
10/26/2018 17:30	12.4	73.9	0	0	0	0	0	0.008	0.008	42.43206;-76.49835
10/26/2018 17:31			0	0	0	0	0	0.008	0.008	
10/26/2018 17:32			0	0	0	0	0	0.008	0.008	
10/26/2018 17:33			0	0	0	0	0	0.008	0.011	
10/26/2018 17:34			0	0	0	0	0	0.008	0.009	
10/26/2018 17:35	12.4	71.9	0	0	0	0	0	0.008	0.008	42.43211;-76.49834
10/26/2018 17:36			0	0	0	0	0	0.008	0.008	
10/26/2018 17:37			0	0	0	0	0	0.008	0.008	
10/26/2018 17:38			0	0	0	0	0	0.008	0.008	
10/26/2018 17:39			0	0	0	0	0	0.008	0.008	
10/26/2018 17:40	12.3	73.9	0	0	0	0	0	0.008	0.008	42.43212;-76.49837
10/26/2018 17:41			0	0	0	0	0	0.008	0.008	
10/26/2018 17:42			0	0	0	0	0	0.008	0.008	
10/26/2018 17:43			0	0	0	0	0	0.008	0.008	
10/26/2018 17:44			0	0	0	0	0	0.008	0.007	
10/26/2018 17:45	12.3	72.9	0	0	0	0	0	0.008	0.008	42.43214;-76.49837
10/26/2018 17:46			0	0	0	0	0	0.008	0.008	
10/26/2018 17:47			0	0	0	0	0	0.008	0.008	
10/26/2018 17:48			0	0	0	0	0	0.008	0.007	
10/26/2018 17:49			0	0	0	0	0	0.008	0.007	
10/26/2018 17:50	12.3	74.9	0	0	0	0	0	0.008	0.008	42.43213;-76.4984
10/26/2018 17:51			0	0	0	0	0	0.008	0.007	
10/26/2018 17:52			0	0	0	0	0	0.008	0.007	
10/26/2018 17:53			0	0	0	0	0	0.008	0.007	
10/26/2018 17:54			0	0	0	0	0	0.008	0.008	
10/26/2018 17:55	12.3	76.9	0	0	0	0	0	0.008	0.008	42.4321;-76.49841
10/26/2018 17:56			0	0	0	0	0	0.008	0.008	
10/26/2018 17:57			0	0	0	0	0	0.008	0.008	
10/26/2018 17:58			0	0	0	0	0	0.008	0.008	
10/26/2018 17:59			0	0	0	0	0	0.008	0.008	
10/26/2018 18:00	12.3	71.9	0	0	0	0	0	0.008	0.008	42.43218;-76.49841
10/26/2018 18:01			0	0	0	0	0	0.008	0.008	
10/26/2018 18:02			0	0	0	0	0	0.008	0.007	
10/26/2018 18:03			0	0	0	0	0	0.008	0.007	
10/26/2018 18:04			0	0	0	0	0	0.008	0.009	
10/26/2018 18:05	12.3	85	0	0	0	0	0	0.008	0.009	42.43208;-76.49837
10/26/2018 18:06			0	0	0	0	0	0.008	0.009	
10/26/2018 18:07			0	0	0	0	0	0.008	0.01	
10/26/2018 18:08			0	0	0	0	0	0.008	0.008	
10/26/2018 18:09			0	0	0	0	0	0.008	0.008	
10/26/2018 18:10	12.3	72.9	0	0	0	0	0	0.009	0.008	42.43214;-76.4984
10/26/2018 18:11			0	0	0	0	0	0.009	0.007	
10/26/2018 18:12			0	0	0	0	0	0.009	0.007	
10/26/2018 18:13			0	0	0	0	0	0.009	0.007	
10/26/2018 18:14			0	0	0	0	0	0.009	0.007	
10/26/2018 18:15	12.3	80	0	0	0	0	0	0.009	0.007	42.43218;-76.49835
10/26/2018 18:16			0	0	0	0	0	0.009	0.007	
10/26/2018 18:17			0	0	0	0	0	0.009	0.007	
10/26/2018 18:18			0	0	0	0	0	0.009	0.007	
10/26/2018 18:19			0	0	0	0	0	0.009	0.007	
10/26/2018 18:20	12.3	74.9	0	0	0	0	0	0.009	0.007	42.43217;-76.49835
10/26/2018 18:21			0	0	0	0	0	0.009	0.007	
10/26/2018 18:22			0	0	0	0	0	0.009	0.007	
10/26/2018 18:23			0	0	0	0	0	0.009	0.007	
10/26/2018 18:24			0	0	0	0	0	0.009	0.007	
10/26/2018 18:25	12.3	74.9	0	0	0	0	0	0.009	0.007	42.43217;-76.49832
10/26/2018 18:26			0	0	0	0	0	0.009	0.007	
10/26/2018 18:27			0	0	0	0	0	0.009	0.007	
10/26/2018 18:28			0	0	0	0	0	0.009	0.007	
10/26/2018 18:29			0	0	0	0	0	0.009	0.007	
10/26/2018 18:30	12.3	73.9	0	0	0	0	0	0.009	0.007	42.43211;-76.49829
10/26/2018 18:31			0	0	0	0	0	0.009	0.007	
10/26/2018 18:32			0	0	0	0	0	0.009	0.007	
10/26/2018 18:33			0	0	0	0	0	0.009	0.007	
10/26/2018 18:34			0	0	0	0	0	0.009	0.007	
10/26/2018 18:35	12.3	73.9	0	0	0	0	0	0.009	0.007	42.43225;-76.49835
10/26/2018 18:36			0	0	0	0	0	0.009	0.007	
10/26/2018 18:37			0	0	0	0	0	0.009	0.007	
10/26/2018 18:38			0	0	0	0	0	0.009	0.007	
10/26/2018 18:39			0	0	0	0	0	0.009	0.007	
10/26/2018 18:40	12.2	72.9	0	0	0	0	0	0.009	0.007	42.43222;-76.49841
10/26/2018 18:41			0	0	0	0	0	0.009	0.007	
10/26/2018 18:42			0	0	0	0	0	0.009	0.007	
10/26/2018 18:43			0	0	0	0	0	0.009	0.007	
10/26/2018 18:44			0	0	0	0	0	0.009	0.007	
10/26/2018 18:45	12.2	71.9	0	0	0	0	0	0.009	0.007	42.43225;-76.49837
10/26/2018 18:46			0	0	0	0	0	0.009	0.007	
10/26/2018 18:47			0	0	0	0	0	0.009	0.007	
10/26/2018 18:48			0	0	0	0	0	0.009	0.007	
10/26/2018 18:49			0	0	0	0	0	0.009	0.007	
10/26/2018 18:50	12.2	73.9	0	0	0	0	0	0.009	0.007	42.43218;-76.49834
10/26/2018 18:51			0	0	0	0	0	0.009	0.007	
10/26/2018 18:52			0	0	0	0	0	0.009	0.007	
10/26/2018 18:53			0	0	0	0	0	0.009	0.007	
10/26/2018 18:54			0	0	0	0	0	0.009	0.007	
10/26/2018 18:55	12.2	73.9	0	0	0	0	0	0.009	0.007	42.4323;-76.49837
10/26/2018 18:56			0	0	0	0	0	0.009	0.007	
10/26/2018 18:57			0	0	0	0	0	0.009	0.007	
10/26/2018 18:58			0	0	0	0	0	0.009	0.007	
10/26/2018 18:59			0	0	0	0	0	0.009	0.007	
10/26/2018 19:00	12.2	90.1	0	0	0	0	0	0.009	0.007	42.43221;-76.49834
10/26/2018 19:01			0	0	0	0	0	0.009	0.007	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/26/2018 19:02			0	0	0	0	0	0.009	0.007	
10/26/2018 19:03			0	0	0	0	0	0.009	0.007	
10/26/2018 19:04			0	0	0	0	0	0.009	0.007	
10/26/2018 19:05	12.2	76.9	0	0	0	0	0	0.009	0.007	42.43218;-76.4984
10/26/2018 19:06			0	0	0	0	0	0.009	0.007	
10/26/2018 19:07			0	0	0	0	0	0.009	0.007	
10/26/2018 19:08			0	0	0	0	0	0.009	0.007	
10/26/2018 19:09			0	0	0	0	0	0.009	0.007	
10/26/2018 19:10	12.2	71.9	0	0	0	0	0	0.009	0.007	42.43214;-76.49831
10/26/2018 19:11			0	0	0	0	0	0.009	0.007	
10/26/2018 19:12			0	0	0	0	0	0.009	0.007	
10/26/2018 19:13			0	0	0	0	0	0.009	0.007	
10/26/2018 19:14			0	0	0	0	0	0.009	0.007	
10/26/2018 19:15	12.2	72.9	0	0	0	0	0	0.009	0.007	42.43213;-76.49834
10/26/2018 19:16			0	0	0	0	0	0.009	0.007	
10/26/2018 19:17			0	0.001	0	0	0	0.009	0.007	
10/26/2018 19:18			0	0.003	0	0	0.001	0.01	0.007	
10/26/2018 19:19			0	0.005	0	0	0.004	0.01	0.007	
10/26/2018 19:20	12.2	77.9	0	0.009	0	0	0.004	0.01	0.007	42.43213;-76.49841
10/26/2018 19:21			0	0.009	0	0	0.007	0.01	0.007	
10/26/2018 19:22			0	0.009	0	0	0.006	0.01	0.007	
10/26/2018 19:23			0	0.011	0.001	0	0.011	0.01	0.007	
10/26/2018 19:24			0	0.011	0.001	0	0.01	0.01	0.007	
10/26/2018 19:25	12.2	74.9	0	0.014	0.002	0	0.014	0.01	0.007	42.43214;-76.49831
10/26/2018 19:26			0	0.015	0.002	0	0.012	0.01	0.007	
10/26/2018 19:27			0	0.015	0.003	0	0.009	0.01	0.007	
10/26/2018 19:28			0	0.017	0.004	0	0.014	0.01	0.007	
10/26/2018 19:29			0	0.021	0.005	0	0.018	0.01	0.007	
10/26/2018 19:30	12.2	76.9	0	0.021	0.006	0	0.021	0.01	0.007	42.43213;-76.49831
10/26/2018 19:31			0	0.026	0.007	0	0.02	0.01	0.007	
10/26/2018 19:32			0	0.026	0.009	0	0.02	0.01	0.007	
10/26/2018 19:33			0	0.026	0.01	0	0.023	0.01	0.007	
10/26/2018 19:34			0	0.026	0.011	0	0.021	0.01	0.007	
10/26/2018 19:35	12.2	73.9	0	0.027	0.013	0	0.025	0.01	0.007	42.43211;-76.49829
10/26/2018 19:36			0	0.028	0.014	0	0.027	0.01	0.006	
10/26/2018 19:37			0	0.03	0.015	0	0.024	0.01	0.007	
10/26/2018 19:38			0	0.03	0.017	0	0.029	0.01	0.006	
10/26/2018 19:39			0	0.032	0.018	0	0.028	0.01	0.006	
10/26/2018 19:40	12.2	75.9	0	0.033	0.019	0	0.027	0.01	0.006	42.43211;-76.49834
10/26/2018 19:41			0	0.033	0.02	0	0.032	0.01	0.007	
10/26/2018 19:42			0	0.033	0.022	0	0.028	0.01	0.007	
10/26/2018 19:43			0	0.033	0.023	0	0.025	0.01	0.006	
10/26/2018 19:44			0	0.033	0.023	0	0.027	0.01	0.006	
10/26/2018 19:45	12.2	73.9	0	0.033	0.024	0	0.027	0.01	0.006	42.43211;-76.49837
10/26/2018 19:46			0	0.033	0.025	0.001	0.024	0.01	0.006	
10/26/2018 19:47			0	0.033	0.025	0.001	0.022	0.01	0.007	
10/26/2018 19:48			0	0.033	0.025	0.001	0.021	0.01	0.006	
10/26/2018 19:49			0	0.033	0.025	0.001	0.024	0.01	0.006	
10/26/2018 19:50	12.2	71.9	0	0.033	0.025	0.001	0.021	0.01	0.006	42.43208;-76.49836
10/26/2018 19:51			0	0.033	0.025	0.001	0.019	0.01	0.006	
10/26/2018 19:52			0	0.033	0.024	0.001	0.017	0.01	0.006	
10/26/2018 19:53			0	0.033	0.024	0.001	0.014	0.01	0.006	
10/26/2018 19:54			0	0.033	0.023	0.001	0.016	0.01	0.006	
10/26/2018 19:55	12.2	74.9	0	0.033	0.022	0.001	0.015	0.01	0.006	42.43209;-76.49837
10/26/2018 19:56			0	0.033	0.021	0.001	0.015	0.01	0.006	
10/26/2018 19:57			0	0.033	0.02	0.001	0.012	0.01	0.006	
10/26/2018 19:58			0	0.033	0.019	0.001	0.01	0.01	0.006	
10/26/2018 19:59			0	0.033	0.018	0.001	0.01	0.01	0.006	
10/26/2018 20:00	12.1	73.9	0	0.033	0.017	0.001	0.008	0.01	0.006	42.4321;-76.49834
10/26/2018 20:01			0	0.033	0.016	0.001	0.006	0.01	0.006	
10/26/2018 20:02			0	0.033	0.015	0.001	0.007	0.01	0.006	
10/26/2018 20:03			0	0.033	0.014	0.001	0.004	0.01	0.006	
10/26/2018 20:04			0	0.033	0.012	0.001	0.004	0.01	0.006	
10/26/2018 20:05	12.2	74.9	0	0.033	0.011	0.001	0.004	0.01	0.006	42.43208;-76.49829
10/26/2018 20:06			0	0.033	0.01	0.001	0	0.01	0.006	
10/26/2018 20:07			0	0.033	0.009	0.001	0	0.01	0.006	
10/26/2018 20:08			0	0.033	0.008	0.001	0	0.01	0.006	
10/26/2018 20:09			0	0.033	0.007	0.001	0.001	0.01	0.006	
10/26/2018 20:10	12.2	79	0	0.033	0.006	0.001	0	0.01	0.006	42.43213;-76.49841
10/26/2018 20:11			0	0.033	0.005	0.001	0	0.01	0.006	
10/26/2018 20:12			0	0.033	0.004	0.001	0	0.01	0.006	
10/26/2018 20:13			0	0.033	0.003	0.001	0	0.01	0.006	
10/26/2018 20:14			0	0.033	0.002	0.001	0	0.01	0.006	
10/26/2018 20:15	12.2	74.9	0	0.033	0.002	0.001	0	0.01	0.006	42.43213;-76.49841
10/26/2018 20:16			0	0.033	0.001	0.001	0	0.01	0.006	
10/26/2018 20:17			0	0.033	0.001	0.001	0	0.01	0.01	
10/26/2018 20:18			0	0.033	0	0.001	0	0.01	0.007	
10/26/2018 20:19			0	0.033	0	0.001	0	0.01	0.006	
10/29/2018 15:51	12.7	98.2								
10/29/2018 15:52			0	0	0	0	0			
10/29/2018 15:53			0	0	0	0	0			
10/29/2018 15:54			0	0	0	0	0	0	0.008	
10/29/2018 15:55	12.7	59.7	0	0	0	0	0	0	0.009	
10/29/2018 15:56			0	0	0	0	0	0	0.009	
10/29/2018 15:57			0	0	0	0	0	0	0.008	
10/29/2018 15:58			0	0	0	0	0	0	0.008	
10/29/2018 15:59			0	0	0	0	0	0	0.009	
10/29/2018 16:00	12.6	71.9	0	0	0	0	0	0	0.008	
10/29/2018 16:00										42.43233;-76.49847
10/29/2018 16:01			0	0	0	0	0	0	0.008	
10/29/2018 16:02			0	0	0	0	0	0	0.007	
10/29/2018 16:03			0	0	0	0	0	0	0.007	
10/29/2018 16:04			0	0	0	0	0	0	0.007	
10/29/2018 16:05	12.6	72.9	0	0	0	0	0	0	0.007	
10/29/2018 16:05										42.43218;-76.49844
10/29/2018 16:06			0	0	0	0	0	0	0.006	
10/29/2018 16:07				0	0		0		0.008	
10/29/2018 16:38			0	0	0	0	0	0.001	0.007	
10/29/2018 16:39			0	0	0	0	0	0.001	0.007	
10/29/2018 16:40	12.6	71.9	0	0	0	0	0	0.001	0.007	
10/29/2018 16:40										42.43211;-76.49835
10/29/2018 16:41			0	0	0	0	0	0.001	0.007	
10/29/2018 16:42			0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:43			0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:44			0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:45	12.6	72.9	0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:45										42.43214;-76.49834
10/29/2018 16:46			0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:47			0	0.033	0	0	0	0.001	0.007	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/29/2018 16:48			0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:49			0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:50	12.6	71.9	0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:50										42.43211;-76.49837
10/29/2018 16:51			0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:52			0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:53			0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:54			0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:55	12.6	71.9	0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:55										42.43213;-76.49842
10/29/2018 16:56			0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:57			0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:58			0	0.033	0	0	0	0.001	0.007	
10/29/2018 16:59			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:00	12.6	72.9	0	0.033	0	0	0	0.001	0.007	42.43219;-76.49837
10/29/2018 17:01			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:02			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:03			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:04			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:05	12.6	71.9	0	0.033	0	0	0	0.001	0.007	42.43217;-76.49839
10/29/2018 17:06			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:07			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:08			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:09			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:10	12.6	71.9	0	0.033	0	0	0	0.001	0.007	42.43208;-76.49825
10/29/2018 17:11			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:12			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:13			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:14			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:15	12.6	71.9	0	0.033	0	0	0	0.001	0.007	42.43212;-76.49833
10/29/2018 17:16			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:17			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:18			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:19			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:20	12.6	86	0	0.033	0	0	0	0.001	0.007	42.43213;-76.49835
10/29/2018 17:21			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:22			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:23			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:24			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:25	12.6	71.9	0	0.033	0	0	0	0.001	0.007	42.4321;-76.49834
10/29/2018 17:26			0	0.033	0	0	0	0.001	0.013	
10/29/2018 17:27			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:28			0	0.033	0	0	0	0.001	0.007	
10/29/2018 17:29			0	0.033	0	0	0	0.001	0.006	
10/29/2018 17:30	12.6	70.9	0	0.033	0	0	0	0.002	0.007	42.43213;-76.49837
10/29/2018 17:31			0	0.033	0	0	0	0.002	0.007	
10/29/2018 17:32			0	0.033	0	0	0	0.002	0.007	
10/29/2018 17:33			0	0.033	0	0	0	0.002	0.006	
10/29/2018 17:34			0	0.033	0	0	0	0.002	0.007	
10/29/2018 17:35	12.6	72.9	0	0.033	0	0	0	0.002	0.009	42.43217;-76.49838
10/29/2018 17:36			0	0.033	0	0	0	0.002	0.006	
10/29/2018 17:37			0	0.033	0	0	0	0.002	0.008	
10/29/2018 17:38			0	0.033	0	0	0	0.002	0.006	
10/29/2018 17:39			0	0.033	0	0	0	0.002	0.008	
10/29/2018 17:40	12.6	71.9	0	0.033	0	0	0	0.002	0.006	42.43216;-76.4985
10/29/2018 17:41			0	0.033	0	0	0	0.002	0.006	
10/29/2018 17:42			0	0.033	0	0	0	0.002	0.008	
10/29/2018 17:43			0	0.033	0	0	0	0.002	0.011	
10/29/2018 17:44			0	0.033	0	0	0	0.002	0.008	
10/29/2018 17:45	12.6	70.9	0	0.033	0	0	0	0.002	0.008	42.43222;-76.49847
10/29/2018 17:46			0	0.033	0	0	0	0.002	0.007	
10/29/2018 17:47			0	0.033	0	0	0	0.002	0.008	
10/29/2018 17:48			0	0.033	0	0	0	0.002	0.008	
10/29/2018 17:49			0	0.033	0	0	0	0.002	0.008	
10/29/2018 17:50	12.6	74.9	0	0.033	0	0	0	0.002	0.007	42.43214;-76.49837
10/29/2018 17:51			0	0.033	0	0	0	0.002	0.006	
10/29/2018 17:52			0	0.033	0	0	0	0.002	0.006	
10/29/2018 17:53			0	0.033	0	0	0	0.002	0.006	
10/29/2018 17:54			0	0.033	0	0	0	0.002	0.006	
10/29/2018 17:55	12.6	70.9	0	0.04	0	0	0	0.002	0.006	42.43204;-76.49843
10/29/2018 17:56			0	0.04	0	0	0	0.002	0.007	
10/29/2018 17:57			0	0.04	0	0	0	0.002	0.006	
10/29/2018 17:58			0	0.04	0	0	0	0.002	0.005	
10/29/2018 17:59			0	0.04	0	0	0	0.002	0.005	
10/29/2018 18:00	12.6	81	0	0.04	0	0	0	0.002	0.005	42.43194;-76.49815
10/29/2018 18:01			0	0.04	0	0	0	0.002	0.005	
10/29/2018 18:02			0	0.04	0	0	0	0.002	0.005	
10/29/2018 18:03			0	0.04	0	0	0	0.002	0.005	
10/29/2018 18:04			0	0.04	0	0	0	0.002	0.005	
10/29/2018 18:05	12.6	79	0	0.04	0	0	0	0.002	0.005	42.43212;-76.49837
10/29/2018 18:06			0	0.04	0	0	0	0.002	0.005	
10/29/2018 18:07			0	0.04	0	0	0	0.002	0.005	
10/29/2018 18:08			0	0.04	0	0	0	0.002	0.005	
10/29/2018 18:09			0	0.04	0	0	0	0.002	0.005	
10/29/2018 18:10	12.6	73.9	0	0.099	0	0	0	0.002	0.006	42.43215;-76.49834
10/29/2018 18:11			0	0.099	0	0	0	0.002	0.006	
10/29/2018 18:12			0	0.099	0	0	0	0.002	0.005	
10/29/2018 18:13			0	0.099	0	0	0	0.002	0.005	
10/29/2018 18:14			0	0.099	0	0	0	0.002	0.008	
10/29/2018 18:15	12.6	72.9	0	0.099	0	0	0	0.002	0.008	42.43221;-76.49841
10/29/2018 18:16			0	0.099	0	0	0	0.002	0.008	
10/29/2018 18:17			0	0.099	0	0	0	0.002	0.007	
10/29/2018 18:18			0	0.099	0	0	0	0.002	0.007	
10/29/2018 18:19			0	0.099	0	0	0	0.002	0.006	
10/29/2018 18:20	12.6	71.9	0	0.099	0	0	0	0.002	0.006	42.43221;-76.49835
10/29/2018 18:21			0	0.099	0	0	0	0.002	0.006	
10/29/2018 18:22			0	0.099	0	0	0	0.002	0.006	
10/29/2018 18:23			0	0.099	0	0	0	0.002	0.006	
10/29/2018 18:24			0	0.099	0	0	0	0.002	0.006	
10/29/2018 18:25	12.5	74.9	0	0.099	0	0	0	0.002	0.005	42.43229;-76.49836
10/29/2018 18:26			0	0.099	0	0	0	0.002	0.006	
10/29/2018 18:27			0	0.099	0	0	0	0.002	0.004	
10/29/2018 18:28			0	0.099	0	0	0	0.002	0.004	
10/29/2018 18:29			0	0.099	0	0	0	0.002	0.004	
10/29/2018 18:30	12.5	81	0	0.099	0	0	0	0.002	0.004	42.43227;-76.49843
10/29/2018 18:31			0	0.099	0	0	0	0.002	0.005	
10/29/2018 18:32			0	0.099	0	0	0	0.002	0.005	
10/29/2018 19:03			0	0.099	0	0	0	0.003	0.007	
10/29/2018 19:04			0	0.099	0	0	0	0.003	0.006	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/29/2018 19:05	12.5	72.9	0	0.099	0	0	0	0.003	0.004	42.43214;-76.49837
10/29/2018 19:06			0	0.099	0	0	0	0.003	0.003	
10/29/2018 19:07			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:08			0	0.099	0	0	0	0.003	0.003	
10/29/2018 19:09			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:10	12.5	73.9	0	0.099	0	0	0	0.003	0.003	42.43213;-76.49834
10/29/2018 19:11			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:12			0	0.099	0	0	0	0.003	0.003	
10/29/2018 19:13			0	0.099	0	0	0	0.003	0.003	
10/29/2018 19:14			0	0.099	0	0	0	0.003	0.003	
10/29/2018 19:15	12.5	73.9	0	0.099	0	0	0	0.003	0.004	42.43215;-76.49837
10/29/2018 19:16			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:17			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:18			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:19			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:20	12.5	82	0	0.099	0	0	0	0.003	0.004	42.43213;-76.4984
10/29/2018 19:21			0	0.099	0	0	0	0.003	0.003	
10/29/2018 19:22			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:23			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:24			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:25	12.5	72.9	0	0.099	0	0	0	0.003	0.004	42.43211;-76.49838
10/29/2018 19:26			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:27			0	0.099	0	0	0	0.003	0.003	
10/29/2018 19:28			0	0.099	0	0	0	0.003	0.003	
10/29/2018 19:29			0	0.099	0	0	0	0.003	0.003	
10/29/2018 19:30	12.5	81	0	0.099	0	0	0	0.003	0.004	42.43211;-76.49836
10/29/2018 19:31			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:32			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:33			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:34			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:35	12.5	73.9	0	0.099	0	0	0	0.003	0.004	42.43211;-76.49838
10/29/2018 19:36			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:37			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:38			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:39			0	0.099	0	0	0	0.003	0.003	
10/29/2018 19:40	12.5	70.9	0	0.099	0	0	0	0.003	0.003	42.43213;-76.49837
10/29/2018 19:41			0	0.099	0	0	0	0.003	0.003	
10/29/2018 19:42			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:43			0	0.099	0	0	0	0.003	0.004	
10/29/2018 19:44			0	0.099	0	0	0	0.003	0.003	
10/29/2018 19:45	12.5	72.9	0	0.208	0	0	0.015	0.003	0.004	42.43211;-76.49835
10/29/2018 19:46			0	0.208	0.005	0	0	0.003	0.003	
10/29/2018 19:47			0	0.208	0.005	0	0	0.003	0.003	
10/29/2018 19:48			0	0.208	0.005	0	0	0.003	0.003	
10/29/2018 19:49			0	0.208	0.005	0	0	0.003	0.004	
10/29/2018 19:50	12.5	81	0	0.208	0.005	0	0	0.003	0.004	42.43208;-76.49833
10/29/2018 19:51			0	0.208	0.005	0	0	0.003	0.004	
10/29/2018 19:52			0	0.208	0.005	0	0	0.003	0.005	
10/29/2018 19:53			0	0.208	0.005	0	0	0.003	0.004	
10/29/2018 19:54			0	0.208	0.005	0	0	0.003	0.004	
10/29/2018 19:55	12.5	82	0	0.208	0.005	0	0	0.003	0.004	42.43211;-76.49833
10/29/2018 19:56			0	0.208	0.005	0	0	0.003	0.004	
10/29/2018 19:57			0	0.208	0.005	0	0	0.003	0.004	
10/29/2018 19:58			0	0.208	0.005	0	0	0.003	0.004	
10/29/2018 19:59			0	0.208	0.005	0	0	0.003	0.004	
10/29/2018 20:00	12.5	73.9	0	0.208	0.005	0	0	0.003	0.004	42.4321;-76.49834
10/29/2018 20:01			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:02			0	0.208	0	0	0	0.003	0.006	
10/29/2018 20:03			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:04			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:05	12.5	75.9	0	0.208	0	0	0	0.003	0.006	42.43208;-76.49839
10/29/2018 20:06			0	0.208	0	0	0	0.003	0.006	
10/29/2018 20:07			0	0.208	0	0	0	0.003	0.006	
10/29/2018 20:08			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:09			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:10	12.5	82	0	0.208	0	0	0	0.003	0.006	42.43211;-76.49826
10/29/2018 20:11			0	0.208	0	0	0	0.003	0.006	
10/29/2018 20:12			0	0.208	0	0	0	0.003	0.006	
10/29/2018 20:13			0	0.208	0	0	0	0.003	0.007	
10/29/2018 20:14			0	0.208	0	0	0	0.003	0.007	
10/29/2018 20:15	12.4	70.9	0	0.208	0	0	0	0.003	0.006	42.43209;-76.49834
10/29/2018 20:16			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:17			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:18			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:19			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:20	12.4	72.9	0	0.208	0	0	0	0.003	0.005	42.43211;-76.49835
10/29/2018 20:21			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:22			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:23			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:24			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:25	12.4	72.9	0	0.208	0	0	0	0.003	0.005	42.43218;-76.49837
10/29/2018 20:26			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:27			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:28			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:29			0	0.208	0	0	0	0.003	0.005	
10/29/2018 20:30	12.4	72.9	0	0.208	0	0	0	0.003	0.004	42.43211;-76.49837
10/29/2018 20:31			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:32			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:33			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:34			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:35	12.4	77.9	0	0.208	0	0	0	0.003	0.004	42.43224;-76.49838
10/29/2018 20:36			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:37			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:38			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:39			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:40	12.4	73.9	0	0.208	0	0	0	0.003	0.004	42.43219;-76.4984
10/29/2018 20:41			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:42			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:43			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:44			0	0.208	0	0	0	0.003	0.004	
10/29/2018 20:45	12.4	73.9	0	0.208	0	0	0	0.004	0.004	42.43211;-76.49834
10/29/2018 20:46			0	0.208	0	0	0	0.004	0.004	
10/29/2018 20:47			0	0.208	0	0	0	0.004	0.004	
10/29/2018 20:48			0	0.208	0	0	0	0.004	0.004	
10/29/2018 20:49			0	0.208	0	0	0	0.004	0.004	
10/29/2018 20:50	12.4	71.9	0	0.208	0	0	0	0.004	0.005	42.43213;-76.49835
10/29/2018 20:51			0	0.208	0	0	0	0.004	0.004	
10/29/2018 20:52			0	0.208	0	0	0	0.004	0.004	
10/29/2018 20:53			0	0.208	0	0	0	0.004	0.004	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/29/2018 20:54			0	0.208	0	0	0	0.004	0.004	
10/29/2018 20:55	12.4	77.9	0	0.208	0	0	0	0.004	0.004	42.4321;-76.49835
10/29/2018 20:56			0	0.208	0	0	0	0.004	0.004	
10/29/2018 20:57			0	0.208	0	0	0	0.004	0.004	
10/30/2018 12:10	13	93.1								
10/30/2018 12:11			0	0	0	0	0			
10/30/2018 12:12			0	0	0	0	0			
10/30/2018 12:13			0	0	0	0	0			
10/30/2018 12:14			0	0	0	0	0			
10/30/2018 12:15	12.9	77.9	0	0	0	0	0			42.42861;-76.50174
10/30/2018 12:16			0	0	0	0	0			
10/30/2018 12:47			0	0	0	0	0			
10/30/2018 12:48			0	0	0	0	0			
10/30/2018 12:49			0	0	0	0	0			
10/30/2018 12:50	12.9	81	0	0	0	0	0			42.42871;-76.50168
10/30/2018 12:51			0	0	0	0	0			
10/30/2018 12:52			0	0	0	0	0			
10/30/2018 12:53			0	0	0	0	0			
10/30/2018 12:54			0	0	0	0	0			
10/30/2018 12:55	12.9	74.9	0	0	0	0	0			42.42872;-76.50175
10/30/2018 12:56			0	0	0	0	0			
10/30/2018 12:57			0	0	0	0	0			
10/30/2018 12:58			0	0	0	0	0			
10/30/2018 12:59			0	0	0	0	0			
10/30/2018 13:00	12.9	68.8	0	0	0	0	0			42.42861;-76.50182
10/30/2018 13:01			0	0	0	0	0			
10/30/2018 13:02			0	0	0	0	0			
10/30/2018 13:03			0	0	0	0	0			
10/30/2018 13:04			0	0	0	0	0			
10/30/2018 13:05	12.9	69.8	0	0	0	0	0			42.42868;-76.50167
10/30/2018 13:06			0	0	0	0	0			
10/30/2018 13:07			0	0	0	0	0			
10/30/2018 13:08			0	0	0	0	0			
10/30/2018 13:09			0	0	0	0	0			
10/30/2018 13:10	12.9	68.8	0	0	0	0	0			42.42865;-76.50172
10/30/2018 13:11			0	0	0	0	0			
10/30/2018 13:12			0	0	0	0	0			
10/30/2018 13:13			0	0	0	0	0			
10/30/2018 13:14			0	0	0	0	0			
10/30/2018 13:15	12.9	73.9	0	0	0	0	0			42.42874;-76.50179
10/30/2018 13:16			0	0	0	0	0			
10/30/2018 13:17			0	0	0	0	0			
10/30/2018 13:18			0	0	0	0	0			
10/30/2018 13:19			0	0	0	0	0			
10/30/2018 13:20	12.9	68.8	0	0	0	0	0			42.42872;-76.50177
10/30/2018 13:21			0	0	0	0	0			
10/30/2018 13:22			0	0	0	0	0			
10/30/2018 13:23			0	0	0	0	0			
10/30/2018 13:24			0	0	0	0	0			
10/30/2018 13:25	12.9	74.9	0	0	0	0	0			42.42871;-76.50173
10/30/2018 13:26			0	0	0	0	0			
10/30/2018 13:27			0	0	0	0	0			
10/30/2018 13:28			0	0	0	0	0			
10/30/2018 13:29			0	0	0	0	0			
10/30/2018 13:30	12.9	68.8	0	0	0	0	0			42.4287;-76.50175
10/30/2018 13:31			0	0	0	0	0			
10/30/2018 13:32			0	0	0	0	0			
10/30/2018 13:33			0	0	0	0	0			
10/30/2018 13:34			0	0	0	0	0			
10/30/2018 13:35	12.7	71.9	0	0	0	0	0			42.42866;-76.50173
10/30/2018 13:36			0	0	0	0	0			
10/30/2018 13:37			0	0	0	0	0			
10/30/2018 13:38			0	0	0	0	0			
10/30/2018 13:39			0	0	0	0	0			
10/30/2018 13:40	12.7	70.9	0	0	0	0	0			42.42875;-76.50175
10/30/2018 13:41			0	0	0	0	0			
10/30/2018 13:42			0	0	0	0	0	0	0.008	
10/30/2018 13:43			0	0	0	0	0	0	0.019	
10/30/2018 13:44			0	0	0	0	0	0	0.02	
10/30/2018 13:45	12.6	74.9	0	0	0	0	0	0	0.02	42.42876;-76.50179
10/30/2018 13:46			0	0	0	0	0	0	0.019	
10/30/2018 13:47			0	0	0	0	0	0	0.02	
10/30/2018 13:48			0	0	0	0	0	0	0.02	
10/30/2018 13:49			0	0	0	0	0	0	0.019	
10/30/2018 13:50	12.6	72.9	0	0	0	0	0	0	0.018	42.42875;-76.50174
10/30/2018 13:51			0	0	0	0	0	0	0.018	
10/30/2018 13:52			0	0	0	0	0	0	0.018	
10/30/2018 13:53			0	0	0	0	0	0	0.018	
10/30/2018 13:54			0	0	0	0	0	0	0.018	
10/30/2018 13:55	12.6	85	0	0	0	0	0	0	0.018	42.4288;-76.50175
10/30/2018 13:56			0	0	0	0	0	0	0.018	
10/30/2018 13:57			0	0	0	0	0	0.001	0.018	
10/30/2018 13:58			0	0	0	0	0	0.001	0.018	
10/30/2018 13:59			0	0	0	0	0	0.001	0.018	
10/30/2018 14:00	12.6	79	0	0	0	0	0	0.001	0.018	42.42873;-76.50173
10/30/2018 14:01			0	0	0	0	0	0.001	0.017	
10/30/2018 14:02			0	0	0	0	0	0.001	0.017	
10/30/2018 14:03			0	0	0	0	0	0.001	0.017	
10/30/2018 14:04			0	0	0	0	0	0.001	0.016	
10/30/2018 14:05	12.6	100.2	0	0	0	0	0	0.001	0.015	42.42875;-76.50171
10/30/2018 14:06			0	0	0	0	0	0.001	0.014	
10/30/2018 14:07			0	0	0	0	0	0.001	0.014	
10/30/2018 14:08			0	0	0	0	0	0.001	0.015	
10/30/2018 14:09			0	0	0	0	0	0.001	0.015	
10/30/2018 14:10	12.6	77.9	0	0	0	0	0	0.001	0.014	42.42873;-76.50177
10/30/2018 14:11			0	0	0	0	0	0.001	0.014	
10/30/2018 14:12			0	0	0	0	0	0.001	0.013	
10/30/2018 14:13			0	0	0	0	0	0.001	0.012	
10/30/2018 14:14			0	0	0	0	0	0.001	0.012	
10/30/2018 14:15	12.6	72.9	0	0	0	0	0	0.001	0.013	42.42881;-76.50173
10/30/2018 14:16			0	0	0	0	0	0.001	0.012	
10/30/2018 14:17			0	0	0	0	0	0.001	0.012	
10/30/2018 14:18			0	0	0	0	0	0.001	0.011	
10/30/2018 14:19			0	0	0	0	0	0.001	0.011	
10/30/2018 14:20	12.6	76.9	0	0	0	0	0	0.001	0.011	42.42875;-76.50172
10/30/2018 14:21			0	0	0	0	0	0.001	0.011	
10/30/2018 14:22			0	0	0	0	0	0.001	0.01	
10/30/2018 14:23			0	0	0	0	0	0.001	0.009	
10/30/2018 14:24			0	0	0	0	0	0.001	0.01	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/30/2018 14:25	12.6	71.9	0	0	0	0	0	0.001	0.01	42.42879;-76.50173
10/30/2018 14:26			0	0	0	0	0	0.001	0.01	
10/30/2018 14:27			0	0	0	0	0	0.001	0.01	
10/30/2018 14:28			0	0	0	0	0	0.001	0.01	
10/30/2018 14:29			0	0	0	0	0	0.001	0.009	
10/30/2018 14:30	12.6	71.9	0	0	0	0	0	0.001	0.009	42.42884;-76.50177
10/30/2018 14:31			0	0	0	0	0	0.001	0.009	
10/30/2018 14:32			0	0	0	0	0	0.002	0.009	
10/30/2018 14:33			0	0	0	0	0	0.002	0.009	
10/30/2018 14:34			0	0	0	0	0	0.002	0.009	
10/30/2018 14:35	12.6	69.8	0	0	0	0	0	0.002	0.009	42.4288;-76.50179
10/30/2018 14:36			0	0	0	0	0	0.002	0.009	
10/30/2018 14:37			0	0	0	0	0	0.002	0.009	
10/30/2018 14:38			0	0	0	0	0	0.002	0.009	
10/30/2018 14:39			0	0	0	0	0	0.002	0.009	
10/30/2018 14:40	12.6	72.9	0	0	0	0	0	0.002	0.009	42.42887;-76.50175
10/30/2018 14:41			0	0	0	0	0	0.002	0.009	
10/30/2018 14:42			0	0	0	0	0	0.002	0.009	
10/30/2018 14:43			0	0	0	0	0	0.002	0.009	
10/30/2018 14:44			0	0	0	0	0	0.002	0.009	
10/30/2018 14:45	12.6	71.9	0	0	0	0	0	0.002	0.008	42.42886;-76.50175
10/30/2018 14:46			0	0	0	0	0	0.002	0.009	
10/30/2018 14:47			0	0	0	0	0	0.002	0.008	
10/30/2018 14:48			0	0	0	0	0	0.002	0.008	
10/30/2018 14:49			0	0	0	0	0	0.002	0.008	
10/30/2018 14:50	12.6	71.9	0	0	0	0	0	0.002	0.008	42.42882;-76.50172
10/30/2018 14:51			0	0	0	0	0	0.002	0.008	
10/30/2018 14:52			0	0	0	0	0	0.002	0.008	
10/30/2018 14:53			0	0	0	0	0	0.002	0.007	
10/30/2018 14:54			0	0	0	0	0	0.002	0.007	
10/30/2018 14:55	12.6	73.9	0	0	0	0	0	0.002	0.007	42.42884;-76.50172
10/30/2018 14:56			0	0	0	0	0	0.002	0.007	
10/30/2018 14:57			0	0	0	0	0	0.002	0.007	
10/30/2018 14:58			0	0	0	0	0	0.002	0.007	
10/30/2018 14:59			0	0	0	0	0	0.002	0.007	
10/30/2018 15:11			0		0	0		0.002		
10/30/2018 15:12			0	0	0	0	0	0.002	0.007	
10/30/2018 15:13			0	0	0	0	0	0.002	0.007	
10/30/2018 15:14			0	0	0	0	0	0.002	0.007	
10/30/2018 15:26	12.6	73.9			0	0				42.42884;-76.50172
10/30/2018 15:27			0	0	0	0	0	0.002	0.007	
10/30/2018 15:28			0	0	0	0	0	0.002	0.007	
10/30/2018 15:29			0	0	0	0	0	0.002	0.007	
10/30/2018 15:42					0	0				
10/30/2018 15:43			0	0	0	0	0	0.003	0.007	
10/30/2018 15:44			0	0	0	0	0	0.003	0.007	
10/30/2018 15:45	12.6	71.9	0	0	0	0	0	0.003	0.007	42.42867;-76.50156
10/30/2018 15:58			0	0	0	0		0.003		
10/30/2018 15:59			0	0	0	0	0	0.003	0.007	
10/30/2018 16:00	12.5	73.9	0	0	0	0	0	0.003	0.007	42.42859;-76.50159
10/30/2018 16:01			0	0	0	0	0	0.003	0.007	
10/30/2018 16:14			0	0	0	0	0	0.003	0.007	
10/30/2018 16:15	12.5	73.9	0	0	0	0	0	0.003	0.007	42.42868;-76.50169
10/30/2018 16:16			0	0	0	0	0	0.003	0.007	
10/30/2018 16:29					0	0				
10/30/2018 16:30	12.5	71.9	0	0	0	0	0	0.003	0.007	42.42873;-76.50166
10/30/2018 16:31			0	0	0	0	0	0.003	0.006	
10/30/2018 16:32			0	0	0	0	0	0.003	0.007	
10/30/2018 16:45	12.5	74.9	0	0	0	0	0	0.003		42.4287;-76.50171
10/30/2018 16:46			0	0	0	0	0	0.003	0.005	
10/30/2018 16:47			0	0	0	0	0	0.003	0.005	
10/30/2018 17:00	12.5	76.9			0	0		0.004		42.42872;-76.50165
10/30/2018 17:01			0	0	0	0	0	0.004	0.005	
10/30/2018 17:02			0	0	0	0	0	0.004	0.006	
10/30/2018 17:03			0	0	0	0	0	0.004	0.005	
10/30/2018 17:15										42.42881;-76.50173
10/30/2018 17:16			0	0	0	0	0	0.004	0.005	
10/30/2018 17:17			0	0	0	0	0	0.004	0.005	
10/30/2018 17:18			0	0	0	0	0	0.004	0.005	
10/30/2018 17:19			0	0	0	0	0	0.004	0.005	
10/30/2018 17:31			0	0	0	0	0	0.004	0.005	
10/30/2018 17:32			0	0	0	0	0	0.004	0.005	
10/30/2018 17:33			0	0	0	0	0	0.004	0.005	
10/30/2018 17:34			0	0	0	0	0	0.004	0.005	
10/30/2018 17:46						0		0.004		
10/30/2018 17:47			0	0	0	0	0	0.004	0.005	
10/30/2018 17:48			0	0	0	0	0	0.004	0.005	
10/30/2018 17:49			0	0	0	0	0	0.004	0.005	
10/30/2018 18:02			0	0	0	0		0.004		
10/30/2018 18:03			0	0	0	0	0	0.004	0.006	
10/30/2018 18:04			0	0	0	0	0	0.004	0.005	
10/30/2018 18:05	12.4	77.9	0	0	0	0	0	0.004	0.005	42.42874;-76.5017
10/30/2018 18:18			0	0	0	0	0	0.004	0.005	
10/30/2018 18:19			0	0	0	0	0	0.004	0.005	
10/30/2018 18:20	12.4	71.9	0	0	0	0	0	0.005	0.006	42.42875;-76.50174
10/30/2018 18:33						0		0.005		
10/30/2018 18:34			0	0	0	0	0	0.005	0.005	
10/30/2018 18:35	12.3	72.9	0	0	0	0	0	0.005	0.005	42.42871;-76.50177
10/30/2018 18:36			0	0	0	0	0	0.005	0.005	
10/30/2018 18:49			0	0.001	0	0		0.005		
10/30/2018 18:50	12.3	88.1	0	0.002	0	0	0	0.005	0.005	42.42873;-76.50163
10/30/2018 18:51			0	0.002	0	0	0	0.005	0.005	
10/30/2018 18:52			0	0.002	0	0	0	0.005	0.005	
10/30/2018 19:05	12.3	71.9	0	0.003	0	0	0	0.005	0.005	42.42872;-76.50171
10/30/2018 19:06			0	0.003	0	0	0	0.005	0.005	
10/30/2018 19:07			0	0.003	0	0	0	0.005	0.005	
10/30/2018 19:20	12.3	84	0	0.007	0	0				42.42876;-76.50167
10/30/2018 19:21			0	0.007	0	0	0	0.005	0.005	
10/30/2018 19:22			0	0.007	0	0	0	0.005	0.005	
10/30/2018 19:23			0	0.007	0	0	0	0.005	0.005	
10/30/2018 19:35										42.42873;-76.50169
10/30/2018 19:36			0	0.007	0	0	0	0.005	0.005	
10/30/2018 19:37			0	0.007	0	0	0	0.005	0.006	
10/30/2018 19:38			0	0.007	0	0	0	0.005	0.005	
10/30/2018 19:39			0	0.007	0	0	0	0.005	0.005	
10/30/2018 19:51			0	0.007	0	0	0	0.005	0.005	
10/30/2018 19:52			0	0.007	0	0	0	0.005	0.005	
10/30/2018 19:53			0	0.007	0	0	0	0.005	0.005	
10/30/2018 19:54			0	0.007	0	0	0	0.006	0.005	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/30/2018 20:06					0	0				
10/30/2018 20:07			0	0.007	0	0	0	0.006	0.005	
10/30/2018 20:08			0	0.007	0	0	0	0.006	0.005	
10/30/2018 20:09			0	0.007	0	0	0	0.006	0.005	
10/30/2018 20:22			0	0.007	0	0		0.006		
10/30/2018 20:23			0	0.007	0	0	0	0.006	0.005	
10/30/2018 20:24			0	0.007	0	0	0	0.006	0.005	
10/30/2018 20:25	12.2	80	0	0.007	0	0	0	0.006	0.006	42.42846;-76.50159
10/30/2018 20:38			0	0.007	0	0	0	0.006	0.005	
10/30/2018 20:39			0	0.007	0	0	0	0.006	0.005	
10/30/2018 20:40	12.2	82	0	0.007	0	0	0	0.006	0.005	42.42863;-76.50166
10/31/2018 12:37			0	0	0	0	0	0.001	0.015	
10/31/2018 12:38			0	0	0	0	0	0.001	0.016	
10/31/2018 12:39			0	0	0	0	0	0.001	0.016	
10/31/2018 12:40	12.7	70.9	0	0	0	0	0	0.001	0.016	42.4283;-76.50224
10/31/2018 12:41			0	0	0	0	0	0.001	0.014	
10/31/2018 12:42			0	0	0	0	0	0.001	0.023	
10/31/2018 12:43			0	0	0	0	0	0.001	0.015	
10/31/2018 12:44			0	0	0	0	0	0.001	0.014	
10/31/2018 12:45	12.8	69.8	0	0	0	0	0	0.001	0.015	42.42831;-76.50228
10/31/2018 12:46			0	0	0	0	0	0.001	0.018	
10/31/2018 12:47			0	0	0	0	0	0.001	0.014	
10/31/2018 12:48			0	0	0	0	0	0.001	0.013	
10/31/2018 12:49			0	0	0	0	0	0.001	0.014	
10/31/2018 12:50	12.8	74.9	0	0	0	0	0	0.001	0.013	42.4283;-76.50232
10/31/2018 12:51			0	0	0	0	0	0.001	0.014	
10/31/2018 12:52			0	0	0	0	0	0.001	0.013	
10/31/2018 12:53			0	0	0	0	0	0.001	0.013	
10/31/2018 12:54			0	0	0	0	0	0.002	0.013	
10/31/2018 12:55	12.8	69.8	0	0	0	0	0	0.002	0.014	
10/31/2018 12:55										42.42823;-76.50227
10/31/2018 12:56			0	0	0	0	0	0.002	0.014	
10/31/2018 12:57			0	0	0	0	0	0.002	0.013	
10/31/2018 12:58			0	0	0	0	0	0.002	0.013	
10/31/2018 12:59			0	0	0	0	0	0.002	0.014	
10/31/2018 13:00	12.8	70.9	0	0	0	0	0	0.002	0.014	
10/31/2018 13:00										42.42825;-76.50228
10/31/2018 13:01			0	0	0	0	0	0.002	0.014	
10/31/2018 13:02			0	0	0	0	0	0.002	0.013	
10/31/2018 13:03			0	0	0	0	0	0.002	0.014	
10/31/2018 13:04			0	0	0	0	0	0.002	0.019	
10/31/2018 13:05	12.8	69.8	0	0	0	0	0	0.002	0.017	
10/31/2018 13:05										42.42827;-76.5023
10/31/2018 13:06			0	0	0	0	0	0.002	0.016	
10/31/2018 13:07			0	0	0	0	0	0.002	0.014	
10/31/2018 13:08			0	0	0	0	0	0.002	0.013	
10/31/2018 13:09			0	0	0	0	0	0.002	0.014	
10/31/2018 13:10	12.7	77.9	0	0	0	0	0	0.002	0.014	
10/31/2018 13:10										42.42827;-76.50231
10/31/2018 13:11			0	0	0	0	0	0.002	0.014	
10/31/2018 13:12			0	0	0	0	0	0.002	0.018	
10/31/2018 13:13			0	0	0	0	0	0.002	0.014	
10/31/2018 13:14			0	0	0	0	0	0.002	0.024	
10/31/2018 13:15	12.8	71.9	0	0	0	0	0	0.002	0.014	
10/31/2018 13:15										42.42823;-76.50233
10/31/2018 13:16			0	0	0	0	0	0.002	0.017	
10/31/2018 13:17			0	0	0	0	0	0.002	0.02	
10/31/2018 13:18			0	0	0	0	0	0.002	0.017	
10/31/2018 13:19			0	0	0	0	0	0.002	0.031	
10/31/2018 13:20	12.7	71.9	0	0	0	0	0	0.002	0.013	
10/31/2018 13:20										42.42829;-76.50232
10/31/2018 13:21			0	0	0	0	0	0.002	0.015	
10/31/2018 13:22			0	0	0	0	0	0.002	0.017	
10/31/2018 13:23			0	0	0	0	0	0.002	0.017	
10/31/2018 13:24			0	0	0	0	0	0.003	0.014	
10/31/2018 13:25	12.7	71.9	0	0	0	0	0	0.003	0.021	
10/31/2018 13:25										42.4283;-76.50231
10/31/2018 13:26			0	0	0	0	0	0.003	0.014	
10/31/2018 13:27			0	0	0	0	0	0.003	0.013	
10/31/2018 13:28			0	0	0	0	0	0.003	0.013	
10/31/2018 13:29			0	0	0	0	0	0.003	0.013	
10/31/2018 13:30	12.7	73.9	0	0	0	0	0	0.003	0.014	
10/31/2018 13:30										42.4283;-76.50233
10/31/2018 13:31			0	0	0	0	0	0.003	0.014	
10/31/2018 13:32			0	0	0	0	0	0.003	0.013	
10/31/2018 13:33			0	0	0	0	0	0.003	0.012	
10/31/2018 13:34			0	0	0	0	0	0.003	0.013	
10/31/2018 13:35	12.7	69.8	0	0	0	0	0	0.003	0.012	
10/31/2018 13:35										42.42832;-76.50233
10/31/2018 13:36			0	0	0	0	0	0.003	0.012	
10/31/2018 13:37			0	0	0	0	0	0.003	0.015	
10/31/2018 13:38			0	0	0	0	0	0.003	0.014	
10/31/2018 13:39			0	0	0	0	0	0.003	0.013	
10/31/2018 13:40	12.7	72.9	0	0	0	0	0	0.003	0.012	
10/31/2018 13:40										42.42831;-76.50231
10/31/2018 13:41			0	0	0	0	0	0.003	0.012	
10/31/2018 13:42			0	0	0	0	0	0.003	0.012	
10/31/2018 13:43			0	0	0	0	0	0.003	0.012	
10/31/2018 13:44			0	0	0	0	0	0.003	0.012	
10/31/2018 13:45	12.7	69.8	0	0	0	0	0	0.003	0.012	
10/31/2018 13:45										42.42832;-76.50232
10/31/2018 13:46			0	0	0	0	0	0.003	0.012	
10/31/2018 13:47			0	0	0	0	0	0.003	0.012	
10/31/2018 13:48			0	0	0	0	0	0.003	0.012	
10/31/2018 13:49			0	0	0	0	0	0.003	0.012	
10/31/2018 13:50	12.7	70.9	0	0	0	0	0	0.003	0.012	
10/31/2018 13:50										42.42838;-76.50232
10/31/2018 13:51			0	0	0	0	0	0.003	0.026	
10/31/2018 13:52			0	0	0	0	0	0.003	0.013	
10/31/2018 13:53			0	0	0	0	0	0.003	0.013	
10/31/2018 13:54			0	0	0	0	0	0.003	0.013	
10/31/2018 13:55	12.7	70.9	0	0	0	0	0	0.003	0.013	
10/31/2018 13:55										42.4283;-76.5023
10/31/2018 13:56			0	0	0	0	0	0.003	0.013	
10/31/2018 13:57			0	0	0	0	0	0.003	0.012	
10/31/2018 13:58			0	0	0	0	0	0.003	0.012	
10/31/2018 13:59			0	0	0	0	0	0.003	0.012	
10/31/2018 14:00	12.7	82	0	0	0	0	0	0.004	0.012	
10/31/2018 14:00										42.42829;-76.50228

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/31/2018 14:01			0	0	0	0	0	0.004	0.012	
10/31/2018 14:02			0	0	0	0	0	0.004	0.012	
10/31/2018 14:03			0	0	0	0	0	0.004	0.012	
10/31/2018 14:04			0	0	0	0	0	0.004	0.012	
10/31/2018 14:05	12.7	71.9	0	0	0	0	0	0.004	0.012	
10/31/2018 14:05										42.42835;-76.5023
10/31/2018 14:06			0	0	0	0	0	0.004	0.012	
10/31/2018 14:07			0	0	0	0	0	0.004	0.012	
10/31/2018 14:08			0	0	0	0	0	0.004	0.012	
10/31/2018 14:09			0	0	0	0	0	0.004	0.012	
10/31/2018 14:10	12.7	72.9	0	0	0	0	0	0.004	0.012	
10/31/2018 14:10										42.42838;-76.50228
10/31/2018 14:11			0	0	0	0	0	0.004	0.013	
10/31/2018 14:12			0	0	0	0	0	0.004	0.013	
10/31/2018 14:13			0	0	0	0	0	0.004	0.013	
10/31/2018 14:14			0	0	0	0	0	0.004	0.012	
10/31/2018 14:15	12.7	72.9	0	0	0	0	0	0.004	0.013	
10/31/2018 14:15										42.42833;-76.5023
10/31/2018 14:16			0	0	0	0	0	0.004	0.013	
10/31/2018 14:17			0	0	0	0	0	0.004	0.012	
10/31/2018 14:18			0	0	0	0	0	0.004	0.012	
10/31/2018 14:19			0	0	0	0	0	0.004	0.012	
10/31/2018 14:20	12.7	68.8	0	0	0	0	0	0.004	0.012	
10/31/2018 14:20										42.4283;-76.50227
10/31/2018 14:21			0	0	0	0	0	0.004	0.012	
10/31/2018 14:22			0	0	0	0	0	0.004	0.012	
10/31/2018 14:23			0	0	0	0	0	0.004	0.012	
10/31/2018 14:24			0	0	0	0	0	0.004	0.012	
10/31/2018 14:25	12.7	71.9	0	0	0	0	0	0.004	0.012	
10/31/2018 14:25										42.42827;-76.5022
10/31/2018 14:26			0	0	0	0	0	0.004	0.012	
10/31/2018 14:27			0	0	0	0	0	0.004	0.012	
10/31/2018 14:28			0	0	0	0	0	0.004	0.012	
10/31/2018 14:29			0	0	0	0	0	0.004	0.012	
10/31/2018 14:30	12.7	82	0	0	0	0	0	0.004	0.014	
10/31/2018 14:30										42.42827;-76.50225
10/31/2018 14:31			0	0	0	0	0	0.004	0.013	
10/31/2018 14:32			0	0	0	0	0	0.004	0.013	
10/31/2018 15:03			0	0	0	0	0	0.005	0.011	
10/31/2018 15:04			0	0	0	0	0	0.005	0.012	
10/31/2018 15:05	12.7	80	0	0	0	0	0	0.005	0.012	
10/31/2018 15:05										42.42834;-76.50224
10/31/2018 15:06			0	0	0	0	0	0.005	0.012	
10/31/2018 15:07			0	0	0	0	0	0.005	0.012	
10/31/2018 15:08			0	0	0	0	0	0.005	0.012	
10/31/2018 15:09			0	0	0	0	0	0.005	0.012	
10/31/2018 15:10	12.7	71.9	0	0	0	0	0	0.005	0.012	
10/31/2018 15:10										42.42855;-76.50188
10/31/2018 15:11			0	0	0	0	0	0.005	0.014	
10/31/2018 15:12			0	0	0	0	0	0.005	0.012	
10/31/2018 15:13			0	0	0	0	0	0.005	0.012	
10/31/2018 15:14			0	0	0	0	0	0.005	0.01	
10/31/2018 15:15	12.7	71.9	0	0	0	0	0	0.005	0.012	
10/31/2018 15:15										42.43134;-76.49906
10/31/2018 15:16			0	0	0	0	0	0.005	0.013	
10/31/2018 15:17			0	0	0	0	0	0.005	0.012	
10/31/2018 15:18			0	0	0	0	0	0.005	0.012	
10/31/2018 15:19			0	0	0	0	0	0.006	0.012	
10/31/2018 15:20	12.7	70.9	0	0	0	0	0	0.006	0.012	
10/31/2018 15:20										42.43183;-76.49873
10/31/2018 15:21			0	0	0	0	0	0.006	0.012	
10/31/2018 15:22			0	0	0	0	0	0.006	0.012	
10/31/2018 15:23			0	0	0	0	0	0.006	0.012	
10/31/2018 15:24			0	0	0	0	0	0.006	0.012	
10/31/2018 15:25	12.6	71.9	0	0	0	0	0	0.006	0.012	
10/31/2018 15:25										42.43153;-76.49927
10/31/2018 15:26			0	0.002	0	0	0	0.006	0.013	
10/31/2018 15:27			0	0.002	0	0	0	0.006	0.014	
10/31/2018 15:28			0	0.002	0	0	0	0.006	0.013	
10/31/2018 15:29			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:30	12.6	72.9	0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:30										42.42846;-76.50159
10/31/2018 15:31			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:32			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:33			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:34			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:35	12.6	70.9	0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:35										42.42842;-76.50162
10/31/2018 15:36			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:37			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:38			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:39			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:40	12.6	71.9	0	0.002	0	0	0	0.006	0.011	
10/31/2018 15:40										42.42849;-76.50158
10/31/2018 15:41			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:42			0	0.002	0	0	0	0.006	0.013	
10/31/2018 15:43			0	0.002	0	0	0	0.006	0.013	
10/31/2018 15:44			0	0.002	0	0	0	0.006	0.013	
10/31/2018 15:45	12.6	71.9	0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:45										42.4285;-76.50154
10/31/2018 15:46			0	0.002	0	0	0	0.006	0.013	
10/31/2018 15:47			0	0.002	0	0	0	0.006	0.013	
10/31/2018 15:48			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:49			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:50	12.6	70.9	0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:50										42.42854;-76.50159
10/31/2018 15:51			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:52			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:53			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:54			0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:55	12.6	75.9	0	0.002	0	0	0	0.006	0.012	
10/31/2018 15:55										42.42849;-76.50159
10/31/2018 15:56			0	0.002	0	0	0	0.006	0.018	
10/31/2018 15:57			0	0.002	0	0	0	0.006	0.016	
10/31/2018 15:58			0	0.002	0	0	0	0.007	0.016	
10/31/2018 15:59			0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:00	12.6	72.9	0	0.002	0	0	0	0.007	0.015	
10/31/2018 16:00										42.42845;-76.50163
10/31/2018 16:01			0	0.002	0	0	0	0.007	0.013	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
10/31/2018 16:02			0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:03			0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:04			0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:05	12.6	83	0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:05										42.42851;-76.50158
10/31/2018 16:06			0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:07			0	0.002	0	0	0	0.007	0.015	
10/31/2018 16:08			0	0.002	0	0	0	0.007	0.027	
10/31/2018 16:09			0	0.002	0	0	0	0.007	0.014	
10/31/2018 16:10	12.6	70.9	0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:10										42.4285;-76.50158
10/31/2018 16:11			0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:12			0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:13			0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:14			0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:15	12.6	72.9	0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:15										42.42851;-76.50158
10/31/2018 16:16			0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:17			0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:18			0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:19			0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:20	12.6	73.9	0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:20										42.42852;-76.50163
10/31/2018 16:21			0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:22			0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:23			0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:24			0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:25	12.6	73.9	0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:25										42.42854;-76.50164
10/31/2018 16:26			0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:27			0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:28			0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:29			0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:30	12.6	79	0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:30										42.42852;-76.50165
10/31/2018 16:31			0	0.002	0	0	0	0.007	0.013	
10/31/2018 16:32			0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:33			0	0.002	0	0	0	0.007	0.012	
10/31/2018 16:34			0	0.002	0	0	0	0.008	0.013	
10/31/2018 16:35	12.6	82	0	0.002	0	0	0	0.008	0.012	
10/31/2018 16:35										42.42852;-76.50165
10/31/2018 16:36			0	0.002	0	0	0	0.008	0.012	
10/31/2018 16:37			0	0.002	0	0	0	0.008	0.013	
10/31/2018 16:38			0	0.002	0	0	0	0.008	0.012	
10/31/2018 16:39			0	0.002	0	0	0	0.008	0.012	
10/31/2018 16:40	12.6	82	0	0.002	0	0	0	0.008	0.012	
10/31/2018 16:40										42.42856;-76.50164
10/31/2018 16:41			0	0.002	0	0	0	0.008	0.013	
10/31/2018 16:42			0	0.002	0	0	0	0.008	0.013	
10/31/2018 16:43			0	0.002	0	0	0	0.008	0.012	
10/31/2018 16:44			0	0.002	0	0	0	0.008	0.012	
10/31/2018 16:45	12.6	77.9	0	0.002	0	0	0	0.008	0.012	
10/31/2018 16:45										42.42857;-76.50164
10/31/2018 16:46			0	0.002	0	0	0	0.008	0.013	
10/31/2018 16:47			0	0.002	0	0	0	0.008	0.013	
10/31/2018 16:48			0	0.002	0	0	0	0.008	0.012	
10/31/2018 16:49			0	0.002	0	0	0	0.008	0.012	
10/31/2018 16:50	12.6	71.9	0	0.002	0	0	0	0.008	0.013	
10/31/2018 16:50										42.42859;-76.50168
10/31/2018 16:51			0	0.002	0	0	0	0.008	0.012	
10/31/2018 16:52			0	0.002	0	0	0	0.008	0.014	
10/31/2018 16:53			0	0.002	0	0	0	0.008	0.014	
10/31/2018 16:54			0	0.002	0	0	0	0.008	0.013	
10/31/2018 16:55	12.5	73.9	0	0.002	0	0	0	0.008	0.012	
10/31/2018 16:55										42.42856;-76.50167
10/31/2018 16:56			0	0.002	0	0	0	0.008	0.013	
10/31/2018 16:57			0	0.002	0	0	0	0.008	0.012	
10/31/2018 16:58			0	0.002	0	0	0	0.008	0.012	
10/31/2018 17:10	12.5	79	0	0.002	0	0	0	0.008	0.012	
10/31/2018 17:10										42.42858;-76.50166
10/31/2018 17:11			0	0.002	0	0	0	0.008	0.012	
10/31/2018 17:12			0	0.002	0	0	0	0.009	0.012	
10/31/2018 17:23								0.009		
10/31/2018 17:24			0	0.002	0	0	0	0.009	0.013	
10/31/2018 17:25	12.5	71.9	0	0.002	0	0	0	0.009	0.013	42.4285;-76.50162
10/31/2018 17:37					0	0		0.009		
10/31/2018 17:38			0	0.002	0	0	0	0.009	0.013	
10/31/2018 17:39			0	0.002	0	0	0	0.009	0.013	
10/31/2018 17:50						0		0.008		
10/31/2018 17:51			0	0.002	0	0		0.01		
10/31/2018 17:52			0	0.002	0	0	0	0.01	0.013	
10/31/2018 17:53			0	0.002	0	0	0	0.01	0.013	
10/31/2018 17:54			0	0.002	0	0	0	0.01	0.023	
10/31/2018 18:06			0	0.029	0	0	0	0.01	0.018	
10/31/2018 18:07			0	0.029	0	0	0	0.01	0.014	
10/31/2018 18:08			0	0.029	0	0	0	0.01	0.015	
10/31/2018 18:20	12.4	72.9	0		0	0		0.011		42.42857;-76.5016
10/31/2018 18:21			0	0.029	0	0	0	0.011	0.014	
10/31/2018 18:22			0	0.029	0	0	0	0.011	0.014	
10/31/2018 18:34			0	0.029	0	0		0.011		
10/31/2018 18:35	12.4	71.9	0	0.029	0	0	0	0.011	0.014	42.42854;-76.50161
10/31/2018 18:36			0	0.029	0	0	0	0.011	0.014	
10/31/2018 18:48			0	0.029	0	0	0	0.011		
10/31/2018 18:49			0	0.029	0	0	0	0.011	0.014	
10/31/2018 18:50	12.4	72.9	0	0.029	0	0	0	0.011	0.014	42.42852;-76.50158
10/31/2018 19:02			0	0.029	0	0	0	0.012	0.014	
10/31/2018 19:03			0	0.029	0	0	0	0.012	0.014	
10/31/2018 19:04			0	0.029	0	0	0	0.012	0.015	
10/31/2018 19:16			0	0.029	0	0	0	0.012	0.015	
10/31/2018 19:17			0	0.029	0	0	0	0.012	0.015	
10/31/2018 19:18			0	0.029	0	0	0	0.012	0.016	
10/31/2018 19:30	12.3	73.9	0	0.029	0	0				42.42856;-76.5016
10/31/2018 19:31			0	0.029	0	0	0	0.013	0.017	
10/31/2018 19:32			0	0.029	0	0	0	0.013	0.017	
10/31/2018 19:44			0	0.029	0	0		0.013		
10/31/2018 19:45	12.3	72.9	0	0.029	0	0	0	0.013	0.017	42.4285;-76.50164
10/31/2018 19:46			0	0.029	0	0	0	0.013	0.02	
10/31/2018 19:58			0	0.029	0	0	0	0.014		
10/31/2018 19:59			0	0.029	0	0	0	0.014	0.019	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
10/31/2018 20:00	12.3	72.9	0	0.029	0	0	0	0.014	0.018	42.42847;-76.50161
10/31/2018 20:12			0	0.029	0	0	0	0.014	0.018	
10/31/2018 20:13			0	0.029	0	0	0	0.014	0.018	
10/31/2018 20:14			0	0.029	0	0	0	0.014	0.02	
10/31/2018 20:26			0	0.029	0	0	0	0.014	0.019	
10/31/2018 20:27			0	0.029	0	0	0	0.014	0.018	
10/31/2018 20:28			0	0.029	0	0	0	0.014	0.018	
10/31/2018 20:40	12.3	73.9	0	0.029	0	0				42.42847;-76.50158
10/31/2018 20:41			0	0.029	0	0	0	0.014	0.018	
10/31/2018 20:42			0	0.029	0	0	0	0.014	0.018	
10/31/2018 20:54			0	0.029	0	0		0.014		
10/31/2018 20:55	12.3	73.9	0	0.029	0	0	0	0.014	0.018	42.42854;-76.50163
10/31/2018 20:56			0	0.029	0	0	0	0.014	0.018	
10/31/2018 21:10	12.4	86								42.42756;-76.50204
10/31/2018 21:15	12.4	72.9								
10/31/2018 21:15										42.4321;-76.4971
11/1/2018 11:53	13	94.1								
11/1/2018 11:55	12.9	68.8	0	0	0	0	0			
11/1/2018 11:55										42.42713;-76.50227
11/1/2018 11:56			0	0	0	0	0			
11/1/2018 11:57			0	0	0	0	0			
11/1/2018 11:58			0	0	0	0	0	0	0.022	
11/1/2018 11:59			0	0	0	0	0	0	0.028	
11/1/2018 12:00	12.7	75.9	0	0	0	0	0	0	0.024	42.42751;-76.50215
11/1/2018 12:01			0	0	0	0	0	0	0.024	
11/1/2018 12:02			0	0	0	0	0	0	0.024	
11/1/2018 12:03			0	0	0	0	0	0	0.024	
11/1/2018 12:04			0	0	0	0	0	0	0.025	
11/1/2018 12:05	12.7	69.8	0	0	0	0	0	0	0.023	
11/1/2018 12:05										42.42753;-76.50205
11/1/2018 12:06			0	0	0	0	0	0	0.023	
11/1/2018 12:07			0	0	0	0	0	0	0.023	
11/1/2018 12:08			0	0	0	0	0	0	0.023	
11/1/2018 12:09			0	0	0	0	0	0	0.022	
11/1/2018 12:10	12.7	84	0	0	0	0	0	0	0.022	
11/1/2018 12:10										42.42757;-76.50205
11/1/2018 12:11			0	0	0	0	0	0	0.022	
11/1/2018 12:12			0	0	0	0	0	0	0.022	
11/1/2018 12:13			0	0	0	0	0	0.001	0.022	
11/1/2018 12:14			0	0	0	0	0	0.001	0.022	
11/1/2018 12:45	12.7	70.9	0	0	0	0	0	0.002	0.019	
11/1/2018 12:45										42.42757;-76.50204
11/1/2018 12:46			0	0	0	0	0	0.002	0.018	
11/1/2018 12:47			0	0	0	0	0	0.002	0.017	
11/1/2018 12:48			0	0	0	0	0	0.002	0.018	
11/1/2018 12:49			0	0	0	0	0	0.002	0.018	
11/1/2018 12:50	12.7	81	0	0	0	0	0	0.002	0.018	
11/1/2018 12:50										42.42758;-76.50204
11/1/2018 12:51			0	0	0	0	0	0.002	0.018	
11/1/2018 12:52			0	0	0	0	0	0.002	0.019	
11/1/2018 12:53			0	0	0	0	0	0.002	0.018	
11/1/2018 12:54			0	0	0	0	0	0.002	0.019	
11/1/2018 12:55	12.7	71.9	0	0	0	0	0	0.003	0.019	
11/1/2018 12:55										42.42758;-76.50204
11/1/2018 12:56			0	0	0	0	0	0.003	0.018	
11/1/2018 12:57			0	0	0	0	0	0.003	0.018	
11/1/2018 12:58			0	0	0	0	0	0.003	0.02	
11/1/2018 12:59			0	0	0	0	0	0.003	0.019	
11/1/2018 13:00	12.7	72.9	0	0	0	0	0	0.003	0.019	
11/1/2018 13:00										42.42756;-76.50203
11/1/2018 13:01			0	0	0	0	0	0.003	0.018	
11/1/2018 13:02			0	0	0	0	0	0.003	0.019	
11/1/2018 13:03			0	0	0	0	0	0.003	0.019	
11/1/2018 13:04			0	0	0	0	0	0.003	0.019	
11/1/2018 13:05	12.7	70.9	0	0	0	0	0	0.003	0.019	
11/1/2018 13:05										42.42753;-76.50206
11/1/2018 13:06			0	0	0	0	0	0.003	0.019	
11/1/2018 13:07			0	0	0	0	0	0.003	0.019	
11/1/2018 13:08			0	0	0	0	0	0.003	0.017	
11/1/2018 13:09			0	0	0	0	0	0.003	0.017	
11/1/2018 13:10	12.7	71.9	0	0	0	0	0	0.003	0.017	
11/1/2018 13:10										42.42762;-76.50202
11/1/2018 13:11			0	0	0	0	0	0.003	0.016	
11/1/2018 13:12			0	0	0	0	0	0.003	0.015	
11/1/2018 13:13			0	0	0	0	0	0.003	0.015	
11/1/2018 13:14			0	0	0	0	0	0.003	0.016	
11/1/2018 13:15	12.7	75.9	0	0	0	0	0	0.003	0.015	
11/1/2018 13:15										42.4276;-76.50204
11/1/2018 13:16			0	0	0	0	0	0.003	0.016	
11/1/2018 13:17			0	0	0	0	0	0.003	0.016	
11/1/2018 13:18			0	0	0	0	0	0.003	0.016	
11/1/2018 13:19			0	0	0	0	0	0.003	0.016	
11/1/2018 13:20	12.6	82	0	0	0	0	0	0.003	0.016	
11/1/2018 13:20										42.42763;-76.50204
11/1/2018 13:21			0	0	0	0	0	0.003	0.016	
11/1/2018 13:22			0	0	0	0	0	0.004	0.021	
11/1/2018 13:23			0	0	0	0	0	0.004	0.018	
11/1/2018 13:24			0	0	0	0	0	0.004	0.015	
11/1/2018 13:25	12.6	75.9	0	0	0	0	0	0.004	0.014	
11/1/2018 13:25										42.42763;-76.50205
11/1/2018 13:26			0	0	0	0	0	0.004	0.014	
11/1/2018 13:27			0	0	0	0	0	0.004	0.015	
11/1/2018 13:28			0	0	0	0	0	0.004	0.016	
11/1/2018 13:29			0	0	0	0	0	0.004	0.016	
11/1/2018 13:30	12.6	74.9	0	0	0	0	0	0.004	0.016	
11/1/2018 13:30										42.42766;-76.50201
11/1/2018 13:31			0	0	0	0	0	0.004	0.018	
11/1/2018 13:32			0	0	0	0	0	0.004	0.016	
11/1/2018 13:33			0	0	0	0	0	0.004	0.017	
11/1/2018 13:34			0	0	0	0	0	0.004	0.017	
11/1/2018 13:35	12.6	71.9	0	0	0	0	0	0.004	0.017	
11/1/2018 13:35										42.42763;-76.50204
11/1/2018 13:36			0	0	0	0	0	0.004	0.017	
11/1/2018 13:37			0	0	0	0	0	0.004	0.017	
11/1/2018 13:38			0	0	0	0	0	0.004	0.017	
11/1/2018 13:39			0	0	0	0	0	0.004	0.017	
11/1/2018 13:40	12.6	81	0	0	0	0	0	0.004	0.016	
11/1/2018 13:40										42.42765;-76.50207
11/1/2018 13:41			0	0	0	0	0	0.004	0.015	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/1/2018 13:42			0	0	0	0	0	0.004	0.015	
11/1/2018 13:43			0	0	0	0	0	0.004	0.015	
11/1/2018 13:44			0	0	0	0	0	0.004	0.016	
11/1/2018 13:45	12.6	80	0	0	0	0	0	0.004	0.016	
11/1/2018 13:45										42.42771;-76.50208
11/1/2018 13:46			0	0	0	0	0	0.004	0.016	
11/1/2018 13:47			0	0	0	0	0	0.004	0.016	
11/1/2018 13:48			0	0	0	0	0	0.004	0.016	
11/1/2018 13:49			0	0	0	0	0	0.004	0.016	
11/1/2018 13:50	12.6	70.9	0	0	0	0	0	0.004	0.016	
11/1/2018 13:50										42.42768;-76.50204
11/1/2018 13:51			0	0	0	0	0	0.004	0.016	
11/1/2018 13:52			0	0	0	0	0	0.005	0.016	
11/1/2018 13:53			0	0	0	0	0	0.005	0.016	
11/1/2018 13:54			0	0	0	0	0	0.005	0.016	
11/1/2018 13:55	12.6	71.9	0	0	0	0	0	0.005	0.016	
11/1/2018 13:55										42.42768;-76.50202
11/1/2018 13:56			0	0	0	0	0	0.005	0.017	
11/1/2018 13:57			0	0	0	0	0	0.005	0.016	
11/1/2018 13:58			0	0	0	0	0	0.005	0.017	
11/1/2018 13:59			0	0	0	0	0	0.005	0.017	
11/1/2018 14:00	12.6	76.9	0	0	0	0	0	0.005	0.017	
11/1/2018 14:00										42.42764;-76.50196
11/1/2018 14:01			0	0	0	0	0	0.005	0.017	
11/1/2018 14:02			0	0	0	0	0	0.005	0.017	
11/1/2018 14:03			0	0	0	0	0	0.005	0.017	
11/1/2018 14:04			0	0	0	0	0	0.005	0.017	
11/1/2018 14:05	12.6	74.9	0	0	0	0	0	0.005	0.017	
11/1/2018 14:05										42.42773;-76.50202
11/1/2018 14:06			0	0	0	0	0	0.005	0.017	
11/1/2018 14:07			0	0	0	0	0	0.005	0.016	
11/1/2018 14:08			0	0	0	0	0	0.005	0.017	
11/1/2018 14:09			0	0	0	0	0	0.005	0.017	
11/1/2018 14:10	12.6	70.9	0	0	0	0	0	0.005	0.017	
11/1/2018 14:10										42.42774;-76.50209
11/1/2018 14:11			0	0	0	0	0	0.005	0.017	
11/1/2018 14:12			0	0	0	0	0	0.005	0.017	
11/1/2018 14:13			0	0	0	0	0	0.005	0.017	
11/1/2018 14:14			0	0	0	0	0	0.005	0.017	
11/1/2018 14:15	12.6	70.9	0	0	0	0	0	0.005	0.017	
11/1/2018 14:15										42.42774;-76.50208
11/1/2018 14:16			0	0	0	0	0	0.005	0.017	
11/1/2018 14:17			0	0	0	0	0	0.005	0.017	
11/1/2018 14:18			0	0	0	0	0	0.005	0.017	
11/1/2018 14:19			0	0	0	0	0	0.005	0.017	
11/1/2018 14:20	12.6	71.9	0	0	0	0	0	0.005	0.017	
11/1/2018 14:20										42.42768;-76.50208
11/1/2018 14:21			0	0	0	0	0	0.006	0.017	
11/1/2018 14:22			0	0	0	0	0	0.006	0.017	
11/1/2018 14:23			0	0	0	0	0	0.006	0.017	
11/1/2018 14:24			0	0	0	0	0	0.006	0.016	
11/1/2018 14:25	12.6	71.9	0	0	0	0	0	0.006	0.016	
11/1/2018 14:25										42.4277;-76.50203
11/1/2018 14:26			0	0	0	0	0	0.006	0.016	
11/1/2018 14:27			0	0	0	0	0	0.006	0.017	
11/1/2018 14:28			0	0	0	0	0	0.006	0.016	
11/1/2018 14:29			0	0	0	0	0	0.006	0.016	
11/1/2018 14:30	12.6	72.9	0	0	0	0	0	0.006	0.016	
11/1/2018 14:30										42.42775;-76.50206
11/1/2018 14:31			0	0	0	0	0	0.006	0.016	
11/1/2018 14:32			0	0	0	0	0	0.006	0.016	
11/1/2018 14:33			0	0	0	0	0	0.006	0.016	
11/1/2018 14:34			0	0	0	0	0	0.006	0.016	
11/1/2018 14:35	12.6	72.9	0	0	0	0	0	0.006	0.016	
11/1/2018 14:35										42.42774;-76.50208
11/1/2018 14:36			0	0	0	0	0	0.006	0.016	
11/1/2018 14:37			0	0	0	0	0	0.006	0.017	
11/1/2018 14:38			0	0	0	0	0	0.006	0.016	
11/1/2018 14:39			0	0	0	0	0	0.006	0.016	
11/1/2018 15:20	12.5	89.1	0	0	0	0	0	0.008	0.022	
11/1/2018 15:20										42.42751;-76.50203
11/1/2018 15:21			0	0	0	0	0	0.008	0.022	
11/1/2018 15:22			0	0	0	0	0	0.008	0.022	
11/1/2018 15:23			0	0	0	0	0	0.008	0.022	
11/1/2018 15:24			0	0	0	0	0	0.008	0.021	
11/1/2018 15:25	12.5	86	0	0	0	0	0	0.008	0.02	
11/1/2018 15:25										42.42763;-76.50198
11/1/2018 15:26			0	0	0	0	0	0.008	0.022	
11/1/2018 15:27			0	0	0	0	0	0.008	0.022	
11/1/2018 15:28			0	0	0	0	0	0.008	0.022	
11/1/2018 15:29			0	0	0	0	0	0.008	0.022	
11/1/2018 15:30	12.5	71.9	0	0	0	0	0	0.008	0.023	
11/1/2018 15:30										42.42762;-76.50195
11/1/2018 15:31			0	0	0	0	0	0.008	0.024	
11/1/2018 15:32			0	0	0	0	0	0.008	0.023	
11/1/2018 15:33			0	0	0	0	0	0.009	0.023	
11/1/2018 15:34			0	0	0	0	0	0.009	0.023	
11/1/2018 15:35	12.5	71.9	0	0	0	0	0	0.009	0.023	
11/1/2018 15:35										42.42751;-76.50201
11/1/2018 15:36			0	0	0	0	0	0.009	0.022	
11/1/2018 15:37			0	0	0	0	0	0.009	0.022	
11/1/2018 15:38			0	0	0	0	0	0.009	0.022	
11/1/2018 15:39			0	0	0	0	0	0.009	0.023	
11/1/2018 15:40	12.5	82	0	0	0	0	0	0.009	0.022	
11/1/2018 15:40										42.42752;-76.50201
11/1/2018 15:41			0	0	0	0	0	0.009	0.021	
11/1/2018 15:42			0	0	0	0	0	0.009	0.021	
11/1/2018 15:43			0	0	0	0	0	0.009	0.021	
11/1/2018 15:44			0	0	0	0	0	0.009	0.021	
11/1/2018 15:45	12.5	82	0	0	0	0	0	0.009	0.021	
11/1/2018 15:45										42.42757;-76.50197
11/1/2018 15:46			0	0	0	0	0	0.009	0.021	
11/1/2018 15:47			0	0	0	0	0	0.009	0.021	
11/1/2018 15:48			0	0	0	0	0	0.009	0.021	
11/1/2018 15:49			0	0	0	0	0	0.009	0.021	
11/1/2018 15:50	12.5	72.9	0	0	0	0	0	0.009	0.021	
11/1/2018 15:50										42.4276;-76.50198
11/1/2018 15:51			0	0	0	0	0	0.009	0.02	
11/1/2018 15:52			0	0	0	0	0	0.009	0.02	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/1/2018 15:53			0	0	0	0	0	0.009	0.02	
11/1/2018 15:54			0	0	0	0	0	0.009	0.021	
11/1/2018 15:55	12.5	71.9	0	0	0	0	0	0.01	0.021	
11/1/2018 15:55										42.4276;-76.50193
11/1/2018 15:56			0	0	0	0	0	0.01	0.021	
11/1/2018 15:57			0	0	0	0	0	0.01	0.021	
11/1/2018 15:58			0	0	0	0	0	0.01	0.021	
11/1/2018 15:59			0	0	0	0	0	0.01	0.021	
11/1/2018 16:00	12.5	73.9	0	0	0	0	0	0.01	0.022	
11/1/2018 16:00										42.42759;-76.50194
11/1/2018 16:01			0	0	0	0	0	0.01	0.021	
11/1/2018 16:02			0	0	0	0	0	0.01	0.021	
11/1/2018 16:03			0	0	0	0	0	0.01	0.02	
11/1/2018 16:04			0	0	0	0	0	0.01	0.02	
11/1/2018 16:05	12.5	71.9	0	0	0	0	0	0.01	0.019	
11/1/2018 16:05										42.42762;-76.50201
11/1/2018 16:06			0	0	0	0	0	0.01	0.019	
11/1/2018 16:07			0	0	0	0	0	0.01	0.02	
11/1/2018 16:08			0	0	0	0	0	0.01	0.019	
11/1/2018 16:09			0	0	0	0	0	0.01	0.019	
11/1/2018 16:10	12.5	74.9	0	0	0	0	0	0.01	0.02	
11/1/2018 16:10										42.42765;-76.50199
11/1/2018 16:11			0	0	0	0	0	0.01	0.019	
11/1/2018 16:12			0	0	0	0	0	0.01	0.02	
11/1/2018 16:13			0	0	0	0	0	0.01	0.019	
11/1/2018 16:14			0	0	0	0	0	0.01	0.019	
11/1/2018 16:15	12.5	73.9	0	0	0	0	0	0.01	0.02	
11/1/2018 16:15										42.42765;-76.50196
11/1/2018 16:16			0	0	0	0	0	0.01	0.018	
11/1/2018 16:17			0	0	0	0	0	0.01	0.017	
11/1/2018 16:18			0	0	0	0	0	0.01	0.016	
11/1/2018 16:19			0	0	0	0	0	0.011	0.017	
11/1/2018 16:20	12.5	71.9	0	0	0	0	0	0.011	0.017	
11/1/2018 16:20										42.42766;-76.50196
11/1/2018 16:21			0	0	0	0	0	0.011	0.018	
11/1/2018 16:22			0	0	0	0	0	0.011	0.019	
11/1/2018 16:23			0	0	0	0	0	0.011	0.019	
11/1/2018 16:24			0	0	0	0	0	0.011	0.019	
11/1/2018 16:25	12.5	71.9	0	0	0	0	0	0.011	0.018	
11/1/2018 16:25										42.42766;-76.50199
11/1/2018 16:26			0	0	0	0	0	0.011	0.018	
11/1/2018 16:27			0	0	0	0	0	0.011	0.018	
11/1/2018 16:28			0	0	0	0	0	0.011	0.018	
11/1/2018 16:29			0	0	0	0	0	0.011	0.019	
11/1/2018 16:30	12.5	70.9	0	0	0	0	0	0.011	0.019	
11/1/2018 16:30										42.42764;-76.502
11/1/2018 16:31			0	0	0	0	0	0.011	0.019	
11/1/2018 16:32			0	0	0	0	0	0.011	0.019	
11/1/2018 16:33			0	0	0	0	0	0.011	0.02	
11/1/2018 16:34			0	0	0	0	0	0.011	0.02	
11/1/2018 16:35	12.5	71.9	0	0	0	0	0	0.011	0.018	
11/1/2018 16:35										42.42766;-76.50201
11/1/2018 16:36			0	0	0	0	0	0.011	0.018	
11/1/2018 16:37			0	0	0	0	0	0.011	0.017	
11/1/2018 16:38			0	0	0	0	0	0.011	0.016	
11/1/2018 16:39			0	0	0	0	0	0.011	0.017	
11/1/2018 16:40	12.5	71.9	0	0	0	0	0	0.011	0.017	
11/1/2018 16:40										42.42767;-76.50198
11/1/2018 16:41			0	0	0	0	0	0.011	0.017	
11/1/2018 16:42			0	0	0	0	0	0.011	0.017	
11/1/2018 16:43			0	0	0	0	0	0.011	0.017	
11/1/2018 16:44			0	0	0	0	0	0.011	0.016	
11/1/2018 16:45	12.5	79	0	0	0	0	0	0.011	0.016	
11/1/2018 16:45										42.42765;-76.50195
11/1/2018 16:46			0	0	0	0	0	0.012	0.016	
11/1/2018 16:47			0	0	0	0	0	0.012	0.016	
11/1/2018 16:48			0	0	0	0	0	0.012	0.016	
11/1/2018 16:49			0	0	0	0	0	0.012	0.015	
11/1/2018 16:50	12.4	72.9	0	0	0	0	0	0.012	0.016	
11/1/2018 16:50										42.42767;-76.502
11/1/2018 16:51			0	0	0	0	0	0.012	0.015	
11/1/2018 16:52			0	0	0	0	0	0.012	0.015	
11/1/2018 16:53			0	0	0	0	0	0.012	0.015	
11/1/2018 16:54			0	0	0	0	0	0.012	0.015	
11/1/2018 16:55	12.4	73.9	0	0	0	0	0	0.012	0.014	
11/1/2018 16:55										42.42767;-76.502
11/1/2018 16:56			0	0	0	0	0	0.012	0.013	
11/1/2018 16:57			0	0	0	0	0	0.012	0.013	
11/1/2018 16:58			0	0	0	0	0	0.012	0.013	
11/1/2018 16:59			0	0	0	0	0	0.012	0.013	
11/1/2018 17:00	12.4	86	0	0	0	0	0	0.012	0.012	
11/1/2018 17:00										42.42768;-76.50203
11/1/2018 17:01			0	0	0	0	0	0.012	0.012	
11/1/2018 17:02			0	0	0	0	0	0.012	0.012	
11/1/2018 17:03			0	0	0	0	0	0.012	0.012	
11/1/2018 17:04			0	0	0	0	0	0.012	0.012	
11/1/2018 17:05	12.4	72.9	0	0	0	0	0	0.012	0.012	
11/1/2018 17:05										42.4277;-76.50202
11/1/2018 17:06			0	0	0	0	0	0.012	0.013	
11/1/2018 17:07			0	0	0	0	0	0.012	0.012	
11/1/2018 17:08			0	0	0	0	0	0.012	0.012	
11/1/2018 17:09			0	0	0	0	0	0.012	0.012	
11/1/2018 17:10	12.4	71.9	0	0	0	0	0	0.012	0.013	
11/1/2018 17:10										42.42768;-76.50199
11/1/2018 17:11			0	0	0	0	0	0.012	0.013	
11/1/2018 17:12			0	0	0	0	0	0.012	0.013	
11/1/2018 17:13			0	0	0	0	0	0.012	0.013	
11/1/2018 17:14			0	0	0	0	0	0.012	0.014	
11/1/2018 17:45	12.4	86	0	0	0	0	0	0.013	0.014	
11/1/2018 17:45										42.4277;-76.50204
11/1/2018 17:46			0	0	0	0	0	0.013	0.014	
11/1/2018 17:47			0	0	0	0	0	0.013	0.014	
11/1/2018 17:48			0	0	0	0	0	0.013	0.014	
11/1/2018 17:49			0	0	0	0	0	0.013	0.014	
11/1/2018 17:50	12.4	74.9	0	0	0	0	0	0.013	0.013	
11/1/2018 17:50										42.42772;-76.50197
11/1/2018 17:51			0	0	0	0	0	0.013	0.013	
11/1/2018 17:52			0	0	0	0	0	0.013	0.013	
11/1/2018 17:53			0	0	0	0	0	0.013	0.013	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/1/2018 17:54			0	0	0	0	0	0.013	0.013	
11/1/2018 17:55	12.4	72.9	0	0	0	0	0	0.013	0.013	
11/1/2018 17:55										42.42764;-76.50198
11/1/2018 17:56			0	0	0	0	0	0.014	0.013	
11/1/2018 17:57			0	0	0	0	0	0.014	0.013	
11/1/2018 17:58			0	0	0	0	0	0.014	0.013	
11/1/2018 17:59			0	0	0	0	0	0.014	0.013	
11/1/2018 18:00	12.4	75.9	0	0	0	0	0	0.014	0.014	
11/1/2018 18:00										42.42767;-76.50195
11/1/2018 18:01			0	0	0	0	0	0.014	0.013	
11/1/2018 18:02			0	0	0	0	0	0.014	0.013	
11/1/2018 18:03			0	0	0	0	0	0.014	0.013	
11/1/2018 18:04			0	0	0	0	0	0.014	0.014	
11/1/2018 18:05	12.4	75.9	0	0	0	0	0	0.014	0.014	
11/1/2018 18:05										42.42767;-76.50193
11/1/2018 18:06			0	0	0	0	0	0.014	0.014	
11/1/2018 18:07			0	0	0	0	0	0.014	0.014	
11/1/2018 18:08			0	0	0	0	0	0.014	0.015	
11/1/2018 18:09			0	0	0	0	0	0.014	0.015	
11/1/2018 18:10	12.4	89.1	0	0	0	0	0	0.014	0.014	
11/1/2018 18:10										42.42773;-76.502
11/1/2018 18:11			0	0	0	0	0	0.014	0.014	
11/1/2018 18:12			0	0	0	0	0	0.014	0.014	
11/1/2018 18:13			0	0	0	0	0	0.014	0.014	
11/1/2018 18:14			0	0	0	0	0	0.014	0.014	
11/1/2018 18:15	12.3	82	0	0	0	0	0	0.014	0.013	
11/1/2018 18:15										42.42767;-76.50199
11/1/2018 18:16			0	0	0	0	0	0.014	0.013	
11/1/2018 18:17			0	0	0	0	0	0.014	0.013	
11/1/2018 18:18			0	0	0	0	0	0.014	0.013	
11/1/2018 18:19			0	0	0	0	0	0.014	0.014	
11/1/2018 18:20	12.3	81	0	0	0	0	0	0.014	0.013	
11/1/2018 18:20										42.42765;-76.50199
11/1/2018 18:21			0	0	0	0	0	0.014	0.014	
11/1/2018 18:22			0	0	0	0	0	0.014	0.014	
11/1/2018 18:23			0	0	0	0	0	0.014	0.014	
11/1/2018 18:24			0	0	0	0	0	0.014	0.013	
11/1/2018 18:25	12.3	84	0	0	0	0	0	0.014	0.013	
11/1/2018 18:25										42.42765;-76.50198
11/1/2018 18:26			0	0	0	0	0	0.014	0.013	
11/1/2018 18:27			0	0	0	0	0	0.014	0.014	
11/1/2018 18:28			0	0	0	0	0	0.014	0.014	
11/1/2018 18:29			0	0	0	0	0	0.014	0.014	
11/1/2018 18:30	12.3	77.9	0	0	0	0	0	0.014	0.013	
11/1/2018 18:30										42.42764;-76.50198
11/1/2018 18:31			0	0	0	0	0	0.015	0.013	
11/1/2018 18:32			0	0	0	0	0	0.015	0.013	
11/1/2018 18:33			0	0	0	0	0	0.015	0.014	
11/1/2018 18:34			0	0	0	0	0	0.015	0.013	
11/1/2018 18:35	12.3	72.9	0	0	0	0	0	0.015	0.014	
11/1/2018 18:35										42.42766;-76.502
11/1/2018 18:36			0	0	0	0	0	0.015	0.013	
11/1/2018 18:37			0	0	0	0	0	0.015	0.013	
11/1/2018 18:38			0	0	0	0	0	0.015	0.013	
11/1/2018 18:39			0	0	0	0	0	0.015	0.013	
11/1/2018 18:40	12.3	73.9	0	0	0	0	0	0.015	0.013	
11/1/2018 18:40										42.4277;-76.50202
11/1/2018 18:41			0	0	0	0	0	0.015	0.014	
11/1/2018 18:42			0	0	0	0	0	0.015	0.014	
11/1/2018 18:43			0	0	0	0	0	0.015	0.014	
11/1/2018 18:44			0	0	0	0	0	0.015	0.014	
11/1/2018 18:45	12.3	74.9	0	0	0	0	0	0.015	0.014	
11/1/2018 18:45										42.42767;-76.50195
11/1/2018 18:46			0	0	0	0	0	0.015	0.015	
11/1/2018 18:47			0	0	0	0	0	0.015	0.015	
11/1/2018 18:48			0	0	0	0	0	0.015	0.014	
11/1/2018 18:49			0	0	0	0	0	0.015	0.014	
11/1/2018 18:50	12.3	73.9	0	0	0	0	0	0.015	0.013	
11/1/2018 18:50										42.4277;-76.50195
11/1/2018 18:51			0	0	0	0	0	0.015	0.013	
11/1/2018 18:52			0	0	0	0	0	0.015	0.013	
11/1/2018 18:53			0	0	0	0	0	0.015	0.014	
11/1/2018 18:54			0	0	0	0	0	0.015	0.014	
11/1/2018 18:55	12.3	79	0	0	0	0	0	0.015	0.014	
11/1/2018 18:55										42.42771;-76.502
11/1/2018 18:56			0	0	0	0	0	0.015	0.013	
11/1/2018 18:57			0	0	0	0	0	0.015	0.013	
11/1/2018 18:58			0	0	0	0	0	0.015	0.012	
11/1/2018 18:59			0	0	0	0	0	0.015	0.012	
11/1/2018 19:00	12.3	73.9	0	0	0	0	0	0.015	0.012	
11/1/2018 19:00										42.42766;-76.502
11/1/2018 19:01			0	0	0	0	0	0.015	0.012	
11/1/2018 19:02			0	0	0	0	0	0.015	0.011	
11/1/2018 19:03			0	0	0	0	0	0.015	0.012	
11/1/2018 19:04			0	0	0	0	0	0.015	0.011	
11/1/2018 19:05	12.3	73.9	0	0	0	0	0	0.015	0.012	
11/1/2018 19:05										42.42767;-76.50195
11/1/2018 19:06			0	0	0	0	0	0.015	0.011	
11/1/2018 19:07			0	0	0	0	0	0.015	0.011	
11/1/2018 19:08			0	0	0	0	0	0.016	0.011	
11/1/2018 19:09			0	0	0	0	0	0.016	0.011	
11/1/2018 19:10	12.3	75.9	0	0	0	0	0	0.016	0.011	
11/1/2018 19:10										42.42768;-76.50199
11/1/2018 19:11			0	0	0	0	0	0.016	0.011	
11/1/2018 19:12			0	0	0	0	0	0.016	0.012	
11/1/2018 19:13			0	0	0	0	0	0.016	0.013	
11/1/2018 19:14			0	0	0	0	0	0.016	0.014	
11/1/2018 19:15	12.3	80	0	0	0	0	0	0.016	0.011	
11/1/2018 19:15										42.42772;-76.50196
11/1/2018 19:16			0	0	0	0	0	0.016	0.011	
11/1/2018 19:17			0	0	0	0	0	0.016	0.011	
11/1/2018 19:18			0	0	0	0	0	0.016	0.012	
11/1/2018 19:19			0	0	0	0	0	0.016	0.011	
11/1/2018 19:20	12.3	76.9	0	0	0	0	0	0.016	0.011	
11/1/2018 19:20										42.42771;-76.50198
11/1/2018 19:21			0	0	0	0	0	0.016	0.012	
11/1/2018 19:22			0	0	0	0	0	0.016	0.012	
11/1/2018 19:23			0	0	0	0	0	0.016	0.012	
11/1/2018 19:24			0	0	0	0	0	0.016	0.012	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/1/2018 19:25	12.2	75.9	0	0	0	0	0	0.016	0.014	
11/1/2018 19:25										42.42769;-76.50195
11/1/2018 19:26			0	0	0	0	0	0.016	0.013	
11/1/2018 19:27			0	0	0	0	0	0.016	0.012	
11/1/2018 19:28			0	0	0	0	0	0.016	0.012	
11/1/2018 19:29			0	0	0	0	0	0.016	0.012	
11/1/2018 19:30	12.2	74.9	0	0	0	0	0	0.016	0.015	
11/1/2018 19:30										42.42767;-76.50197
11/1/2018 19:31			0	0	0	0	0	0.016	0.018	
11/1/2018 19:32			0	0	0	0	0	0.016	0.014	
11/1/2018 19:33			0	0	0	0	0	0.016	0.013	
11/1/2018 19:34			0	0	0	0	0	0.016	0.012	
11/1/2018 19:35	12.2	74.9	0	0	0	0	0	0.016	0.012	
11/1/2018 19:35										42.42767;-76.502
11/1/2018 19:36			0	0	0	0	0	0.016	0.012	
11/1/2018 19:37			0	0	0	0	0	0.016	0.012	
11/1/2018 19:38			0	0	0	0	0	0.016	0.012	
11/1/2018 19:39			0	0	0	0	0	0.016	0.012	
11/1/2018 20:10	12.2	74.9	0	0	0	0	0	0.017	0.012	
11/1/2018 20:10										42.42762;-76.50192
11/1/2018 20:11			0	0	0	0	0	0.017	0.012	
11/1/2018 20:12			0	0	0	0	0	0.017	0.012	
11/1/2018 20:13			0	0	0	0	0	0.017	0.011	
11/1/2018 20:14			0	0	0	0	0	0.017	0.011	
11/1/2018 20:15	12.2	76.9	0	0	0	0	0	0.017	0.012	
11/1/2018 20:15										42.42765;-76.50195
11/1/2018 20:16			0	0	0	0	0	0.017	0.012	
11/1/2018 20:17			0	0	0	0	0	0.017	0.012	
11/1/2018 20:18			0	0	0	0	0	0.017	0.011	
11/1/2018 20:19			0	0	0	0	0	0.017	0.012	
11/1/2018 20:20	12.2	73.9	0	0	0	0	0	0.017	0.012	
11/1/2018 20:20										42.42764;-76.50203
11/1/2018 20:21			0	0	0	0	0	0.017	0.012	
11/1/2018 20:22			0	0	0	0	0	0.017	0.012	
11/1/2018 20:23			0	0	0	0	0	0.017	0.012	
11/1/2018 20:24			0	0	0	0	0	0.017	0.012	
11/1/2018 20:25	12.2	81	0	0	0	0	0	0.017	0.012	
11/1/2018 20:25										42.42768;-76.50198
11/1/2018 20:26			0	0	0	0	0	0.017	0.012	
11/1/2018 20:27			0	0	0	0	0	0.017	0.012	
11/1/2018 20:28			0	0	0	0	0	0.017	0.012	
11/1/2018 20:29			0	0	0	0	0	0.017	0.012	
11/1/2018 20:30	12.2	73.9	0	0	0	0	0	0.017	0.012	
11/1/2018 20:30										42.42762;-76.50201
11/1/2018 20:31			0	0	0	0	0	0.017	0.012	
11/1/2018 20:32			0	0	0	0	0	0.017	0.012	
11/1/2018 20:33			0	0	0	0	0	0.017	0.011	
11/1/2018 20:34			0	0	0	0	0	0.017	0.012	
11/1/2018 20:35	12.2	73.9	0	0	0	0	0	0.017	0.012	
11/1/2018 20:35										42.42768;-76.50196
11/1/2018 20:36			0	0	0	0	0	0.017	0.012	
11/1/2018 20:37			0	0	0	0	0	0.017	0.012	
11/1/2018 20:38			0	0	0	0	0	0.017	0.013	
11/1/2018 20:39			0	0	0	0	0	0.017	0.012	
11/1/2018 20:40	12.2	79	0	0	0	0	0	0.017	0.012	
11/1/2018 20:40										42.42767;-76.50194
11/1/2018 20:41			0	0	0	0	0	0.017	0.012	
11/1/2018 20:42			0	0	0	0	0	0.017	0.013	
11/1/2018 20:43			0	0	0	0	0	0.017	0.012	
11/1/2018 20:44			0	0	0	0	0	0.017	0.012	
11/1/2018 20:45	12.2	73.9	0	0	0	0	0	0.017	0.013	
11/1/2018 20:45										42.42762;-76.50193
11/1/2018 20:46			0	0	0	0	0	0.017	0.012	
11/1/2018 20:47			0	0	0	0	0	0.017	0.012	
11/1/2018 20:48			0	0	0	0	0	0.017	0.012	
11/1/2018 20:49			0	0	0	0	0	0.017	0.012	
11/1/2018 20:50	12.2	74.9	0	0	0	0	0	0.017	0.012	
11/1/2018 20:50										42.42763;-76.50195
11/1/2018 20:51			0	0	0	0	0	0.017	0.011	
11/1/2018 20:52			0	0	0	0	0	0.017	0.012	
11/1/2018 20:53			0	0	0	0	0	0.017	0.012	
11/1/2018 20:54			0	0	0	0	0	0.017	0.012	
11/1/2018 20:55	12.1	73.9	0	0	0	0	0	0.017	0.012	
11/1/2018 20:55										42.42764;-76.50198
11/1/2018 20:56			0	0	0	0	0	0.017	0.011	
11/1/2018 20:57			0	0	0	0	0	0.017	0.011	
11/1/2018 20:58			0	0	0	0	0	0.017	0.011	
11/1/2018 20:59			0	0	0	0	0	0.017	0.011	
11/1/2018 21:00	12.1	75.9	0	0	0	0	0	0.017	0.011	
11/1/2018 21:00										42.42763;-76.50195
11/1/2018 21:01			0	0	0	0	0	0.017	0.011	
11/1/2018 21:02			0	0	0	0	0	0.017	0.011	
11/1/2018 21:03			0	0	0	0	0	0.017	0.011	
11/1/2018 21:04			0	0	0	0	0	0.017	0.013	
11/1/2018 21:05	12.1	92.1	0	0	0	0	0	0.017	0.012	
11/1/2018 21:05										42.42763;-76.50196
11/1/2018 21:06			0	0	0	0	0	0.017	0.011	
11/2/2018 12:24	13	94.1								
11/2/2018 12:25	12.9	80								
11/2/2018 12:26								0		
11/2/2018 12:27								0	0.01	
11/2/2018 12:28								0	0.014	
11/2/2018 12:29								0	0.015	
11/2/2018 12:30	12.8	68.8						0	0.017	42.42749;-76.502
11/2/2018 12:31								0	0.017	
11/2/2018 12:32								0	0.017	
11/2/2018 12:33								0	0.017	
11/2/2018 12:34								0	0.017	
11/2/2018 12:35	12.8	71.9						0	0.017	42.42752;-76.50203
11/2/2018 12:36								0	0.017	
11/2/2018 12:37								0	0.016	
11/2/2018 12:38								0	0.016	
11/2/2018 12:39								0	0.015	
11/2/2018 12:40	12.8	73.9						0	0.014	42.42753;-76.50202
11/2/2018 12:41								0	0.014	
11/2/2018 12:42								0.001	0.014	
11/2/2018 12:43								0.001	0.015	
11/2/2018 12:44								0.001	0.014	
11/2/2018 12:45	12.8	71.9						0.001	0.013	42.42756;-76.50203

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/2/2018 12:46								0.001	0.013	
11/2/2018 12:47								0.001	0.013	
11/2/2018 12:48								0.001	0.013	
11/2/2018 12:49								0.001	0.012	
11/2/2018 12:50	12.8	72.9						0.001	0.012	42.42754;-76.50201
11/2/2018 12:51								0.001	0.011	
11/2/2018 12:52								0.001	0.011	
11/2/2018 13:23			0	0	0	0	0	0.001	0.009	
11/2/2018 13:24			0	0	0	0	0	0.001	0.009	
11/2/2018 13:25	12.8	67.8	0	0	0	0	0	0.001	0.008	42.4276;-76.50198
11/2/2018 13:26			0	0	0	0	0	0.001	0.009	
11/2/2018 13:27			0	0	0	0	0	0.001	0.009	
11/2/2018 13:28			0	0	0	0	0	0.001	0.008	
11/2/2018 13:29			0	0	0	0	0	0.001	0.008	
11/2/2018 13:30	12.8	80	0	0	0	0	0	0.002	0.008	42.42758;-76.50205
11/2/2018 13:31			0	0	0	0	0	0.002	0.008	
11/2/2018 13:32			0	0	0	0	0	0.002	0.008	
11/2/2018 13:33			0	0	0	0	0	0.002	0.008	
11/2/2018 13:34			0	0	0	0	0	0.002	0.008	
11/2/2018 13:35	12.8	80	0	0	0	0	0	0.002	0.009	42.42762;-76.50201
11/2/2018 13:36			0	0	0	0	0	0.002	0.008	
11/2/2018 13:37			0	0	0	0	0	0.002	0.008	
11/2/2018 13:38			0	0	0	0	0	0.002	0.008	
11/2/2018 13:39			0	0	0	0	0	0.002	0.008	
11/2/2018 13:40	12.8	81	0	0	0	0	0	0.002	0.008	42.42762;-76.50201
11/2/2018 13:41			0	0	0	0	0	0.002	0.009	
11/2/2018 13:42			0	0	0	0	0	0.002	0.008	
11/2/2018 13:43			0	0	0	0	0	0.002	0.008	
11/2/2018 13:44			0	0	0	0	0	0.002	0.008	
11/2/2018 13:45	12.8	81	0	0	0	0	0	0.002	0.008	42.42761;-76.50208
11/2/2018 13:46			0	0	0	0	0	0.002	0.009	
11/2/2018 13:47			0	0	0	0	0	0.002	0.009	
11/2/2018 13:48			0	0	0	0	0	0.002	0.009	
11/2/2018 13:49			0	0	0	0	0	0.002	0.008	
11/2/2018 13:50	12.8	79	0	0	0	0	0	0.002	0.009	42.42759;-76.50204
11/2/2018 13:51			0	0	0	0	0	0.002	0.009	
11/2/2018 13:52			0	0	0	0	0	0.002	0.009	
11/2/2018 13:53			0	0	0	0	0	0.002	0.009	
11/2/2018 13:54			0	0	0	0	0	0.002	0.009	
11/2/2018 13:55	12.7	72.9	0	0	0	0	0	0.002	0.008	42.42759;-76.50198
11/2/2018 13:56			0	0	0	0	0	0.002	0.008	
11/2/2018 13:57			0	0	0	0	0	0.002	0.008	
11/2/2018 13:58			0	0	0	0	0	0.002	0.008	
11/2/2018 13:59			0	0	0	0	0	0.002	0.008	
11/2/2018 14:00	12.7	71.9	0	0	0	0	0	0.002	0.009	42.42764;-76.50204
11/2/2018 14:01			0	0	0	0	0	0.002	0.008	
11/2/2018 14:02			0	0	0	0	0	0.002	0.008	
11/2/2018 14:03			0	0	0	0	0	0.002	0.008	
11/2/2018 14:04			0	0	0	0	0	0.002	0.008	
11/2/2018 14:05	12.7	72.9	0	0	0	0	0	0.002	0.008	42.42764;-76.50199
11/2/2018 14:06			0	0	0	0	0	0.002	0.008	
11/2/2018 14:07								0.002	0.008	
11/2/2018 14:08								0.002	0.007	
11/2/2018 14:09								0.002	0.007	
11/2/2018 14:10	12.7	69.8						0.002	0.007	42.42763;-76.50201
11/2/2018 14:11								0.002	0.007	
11/2/2018 14:12								0.002	0.007	
11/2/2018 14:13			0	0	0	0	0	0.002	0.007	
11/2/2018 14:14			0	0	0	0	0	0.002	0.007	
11/2/2018 14:15	12.7	77.9	0	0	0	0	0	0.002	0.007	42.42761;-76.50199
11/2/2018 14:16			0	0	0	0	0	0.002	0.007	
11/2/2018 14:17			0	0	0	0	0	0.002	0.006	
11/2/2018 14:18			0	0	0	0	0	0.002	0.007	
11/2/2018 14:19			0	0	0	0	0	0.002	0.006	
11/2/2018 14:20	12.7	70.9	0	0	0	0	0	0.002	0.009	42.42763;-76.50197
11/2/2018 14:21			0	0	0	0	0	0.002	0.013	
11/2/2018 14:22			0	0	0	0	0	0.002	0.016	
11/2/2018 14:23			0	0	0	0	0	0.002	0.018	
11/2/2018 14:24			0	0	0	0	0	0.002	0.02	
11/2/2018 14:25	12.7	89.1	0	0	0	0	0	0.003	0.02	42.42764;-76.50197
11/2/2018 14:26			0	0	0	0	0	0.003	0.02	
11/2/2018 14:27			0	0	0	0	0	0.003	0.021	
11/2/2018 14:28			0	0	0	0	0	0.003	0.02	
11/2/2018 14:29			0	0	0	0	0	0.003	0.018	
11/2/2018 14:30	12.7	73.9	0	0	0	0	0	0.003	0.015	42.42767;-76.50198
11/2/2018 14:31			0	0	0	0	0	0.003	0.019	
11/2/2018 14:32			0	0	0	0	0	0.003	0.018	
11/2/2018 14:33			0	0	0	0	0	0.003	0.015	
11/2/2018 14:34			0	0	0	0	0	0.003	0.01	
11/2/2018 14:35	12.7	69.8	0	0	0	0	0	0.003	0.007	42.42766;-76.50197
11/2/2018 14:36			0	0	0	0	0	0.003	0.007	
11/2/2018 14:37			0	0	0	0	0	0.003	0.011	
11/2/2018 14:38			0	0	0	0	0	0.003	0.012	
11/2/2018 14:39			0	0	0	0	0	0.003	0.01	
11/2/2018 14:40	12.7	73.9	0	0	0	0	0	0.003	0.009	42.4275;-76.50201
11/2/2018 14:41			0	0	0	0	0	0.003	0.009	
11/2/2018 14:42			0	0	0	0	0	0.003	0.013	
11/2/2018 14:43			0	0	0	0	0	0.003	0.009	
11/2/2018 14:44			0	0	0	0	0	0.003	0.008	
11/2/2018 14:45	12.7	82	0	0	0	0	0	0.003	0.009	42.42764;-76.50197
11/2/2018 14:46			0	0	0	0	0	0.003	0.008	
11/2/2018 14:47			0	0	0	0	0	0.003	0.007	
11/2/2018 14:48			0	0	0	0	0	0.003	0.007	
11/2/2018 14:49			0	0	0	0	0	0.003	0.007	
11/2/2018 14:50	12.7	88.1	0	0	0	0	0	0.003	0.006	42.42762;-76.50196
11/2/2018 14:51			0	0	0	0	0	0.003	0.006	
11/2/2018 14:52			0	0	0	0	0	0.003	0.006	
11/2/2018 14:53			0	0	0	0	0	0.003	0.006	
11/2/2018 14:54			0	0	0	0	0	0.003	0.006	
11/2/2018 14:55	12.7	88.1	0	0	0	0	0	0.003	0.006	42.42762;-76.50192
11/2/2018 14:56			0	0	0	0	0	0.003	0.006	
11/2/2018 14:57			0	0	0	0	0	0.003	0.006	
11/2/2018 14:58			0	0	0	0	0	0.003	0.006	
11/2/2018 14:59			0	0	0	0	0	0.003	0.006	
11/2/2018 15:00	12.7	89.1	0	0	0	0	0	0.003	0.007	42.42764;-76.5019
11/2/2018 15:01			0	0	0	0	0	0.003	0.007	
11/2/2018 15:02			0	0	0	0	0	0.003	0.007	
11/2/2018 15:03			0	0	0	0	0	0.003	0.008	
11/2/2018 15:04			0	0	0	0	0	0.003	0.008	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/2/2018 15:05	12.7	82	0	0	0	0	0	0.003	0.008	42.42765;-76.50188
11/2/2018 15:06			0	0	0	0	0	0.003	0.008	
11/2/2018 15:07			0	0	0	0	0	0.003	0.008	
11/2/2018 15:08			0	0	0	0	0	0.003	0.007	
11/2/2018 15:09			0	0	0	0	0	0.003	0.008	
11/2/2018 15:10	12.7	81	0	0	0	0	0	0.003	0.008	42.42758;-76.50194
11/2/2018 15:11			0	0	0	0	0	0.003	0.006	
11/2/2018 15:12			0	0	0	0	0	0.003	0.007	
11/2/2018 15:13			0	0	0	0	0	0.003	0.006	
11/2/2018 15:14			0	0	0	0	0	0.003	0.006	
11/2/2018 15:15	12.7	74.9	0	0	0	0	0	0.003	0.006	42.42751;-76.50197
11/2/2018 15:16			0	0	0	0	0	0.003	0.006	
11/2/2018 15:17			0	0	0	0	0	0.004	0.006	
11/2/2018 15:18			0	0	0	0	0	0.004	0.006	
11/2/2018 15:19			0	0	0	0	0	0.004	0.006	
11/2/2018 15:20	12.7	79	0	0	0	0	0	0.004	0.006	42.42753;-76.50198
11/2/2018 15:51			0	0	0	0	0	0.004	0.005	
11/2/2018 15:52			0	0	0	0	0	0.004	0.005	
11/2/2018 15:53			0	0	0	0	0	0.004	0.005	
11/2/2018 15:54			0	0	0	0	0	0.004	0.005	
11/2/2018 15:55	12.7	71.9	0	0	0	0	0	0.004	0.005	42.42758;-76.50195
11/2/2018 15:56			0	0	0	0	0	0.004	0.005	
11/2/2018 15:57			0	0	0	0	0	0.004	0.005	
11/2/2018 15:58			0	0	0	0	0	0.004	0.005	
11/2/2018 15:59			0	0	0	0	0	0.004	0.005	
11/2/2018 16:00	12.6	82	0	0	0	0	0	0.004	0.005	42.42761;-76.50195
11/2/2018 16:01			0	0	0	0	0	0.004	0.004	
11/2/2018 16:02			0	0	0	0	0	0.004	0.005	
11/2/2018 16:03			0	0	0	0	0	0.004	0.005	
11/2/2018 16:04			0	0	0	0	0	0.004	0.004	
11/2/2018 16:05	12.6	73.9	0	0	0	0	0	0.004	0.004	42.42762;-76.50197
11/2/2018 16:06			0	0	0	0	0	0.004	0.004	
11/2/2018 16:07			0	0	0	0	0	0.004	0.005	
11/2/2018 16:08			0	0	0	0	0	0.004	0.005	
11/2/2018 16:09			0	0	0	0	0	0.004	0.005	
11/2/2018 16:10	12.6	79	0	0	0	0	0	0.004	0.004	42.42763;-76.50195
11/2/2018 16:11			0	0	0	0	0	0.004	0.004	
11/2/2018 16:12			0	0	0	0	0	0.004	0.004	
11/2/2018 16:13			0	0	0	0	0	0.004	0.004	
11/2/2018 16:14			0	0	0	0	0	0.004	0.004	
11/2/2018 16:15	12.6	70.9	0	0	0	0	0	0.004	0.004	42.42761;-76.50195
11/2/2018 16:16			0	0	0	0	0	0.004	0.005	
11/2/2018 16:17			0	0	0	0	0	0.004	0.005	
11/2/2018 16:18			0	0	0	0	0	0.004	0.005	
11/2/2018 16:19			0	0	0	0	0	0.004	0.004	
11/2/2018 16:20	12.6	71.9	0	0	0	0	0	0.004	0.004	42.42761;-76.50196
11/2/2018 16:21			0	0	0	0	0	0.004	0.004	
11/2/2018 16:22			0	0	0	0	0	0.004	0.005	
11/2/2018 16:23			0	0	0	0	0	0.004	0.004	
11/2/2018 16:24			0	0	0	0	0	0.004	0.005	
11/2/2018 16:25	12.6	71.9	0	0	0	0	0	0.004	0.004	42.42762;-76.50195
11/2/2018 16:26			0	0	0	0	0	0.004	0.004	
11/2/2018 16:27			0	0	0	0	0	0.004	0.004	
11/2/2018 16:28			0	0	0	0	0	0.004	0.004	
11/2/2018 16:29			0	0	0	0	0	0.004	0.004	
11/2/2018 16:30	12.6	70.9	0	0	0	0	0	0.004	0.005	42.42764;-76.50198
11/2/2018 16:31			0	0.925	0.005	0	0	0.004	0.005	
11/2/2018 16:32			0	0.925	0.005	0	0	0.004	0.004	
11/2/2018 16:33			0	0.925	0.005	0	0	0.004	0.004	
11/2/2018 16:34			0	0.925	0.005	0	0	0.004	0.004	
11/2/2018 16:35	12.6	75.9	0	0.925	0.005	0	0	0.004	0.004	42.42762;-76.50197
11/2/2018 16:36			0	0.925	0.005	0	0	0.004	0.004	
11/2/2018 16:37			0	0.925	0.005	0	0	0.004	0.004	
11/2/2018 16:38			0	0.925	0.005	0	0	0.004	0.004	
11/2/2018 16:39			0	0.925	0.005	0	0	0.004	0.004	
11/2/2018 16:40	12.6	71.9	0	0.925	0.005	0	0	0.004	0.004	42.4276;-76.50195
11/2/2018 16:41			0	0.925	0.005	0	0	0.004	0.004	
11/2/2018 16:42			0	0.925	0.005	0	0	0.004	0.004	
11/2/2018 16:43			0	0.925	0.005	0	0	0.004	0.004	
11/2/2018 16:44			0	0.925	0.005	0	0	0.004	0.004	
11/2/2018 16:45	12.6	81	0	0.925	0.005	0	0	0.004	0.004	42.42758;-76.50191
11/2/2018 16:46			0	0.925	0	0	0	0.004	0.004	
11/2/2018 16:47			0	0.925	0	0	0	0.004	0.004	
11/2/2018 16:48			0	0.925	0	0	0	0.004	0.004	
11/2/2018 16:49			0	0.925	0	0	0	0.004	0.004	
11/2/2018 16:50	12.6	80	0	0.925	0	0	0	0.005	0.004	42.42759;-76.50196
11/2/2018 16:51			0	0.925	0	0	0	0.005	0.004	
11/2/2018 16:52			0	0.925	0	0	0	0.005	0.004	
11/2/2018 16:53			0	0.925	0	0	0.001	0.005	0.004	
11/2/2018 16:54			0	0.925	0	0	0	0.005	0.004	
11/2/2018 16:55	12.6	70.9	0	0.925	0	0	0.002	0.005	0.004	42.42759;-76.50202
11/2/2018 16:56			0	0.925	0	0	0	0.005	0.003	
11/2/2018 16:57			0	0.925	0	0	0	0.005	0.004	
11/2/2018 16:58			0	0.925	0	0	0	0.005	0.004	
11/2/2018 16:59			0	0.925	0	0	0	0.005	0.004	
11/2/2018 17:00	12.6	77.9	0	0.925	0	0	0	0.005	0.004	42.4276;-76.50198
11/2/2018 17:01			0	0.925	0	0	0	0.005	0.004	
11/2/2018 17:02			0	0.925	0	0	0	0.005	0.004	
11/2/2018 17:03			0	0.925	0	0	0.004	0.005	0.003	
11/2/2018 17:04			0	0.925	0	0	0	0.005	0.004	
11/2/2018 17:05	12.6	83	0	0.925	0	0	0.002	0.005	0.004	42.4276;-76.502
11/2/2018 17:06			0	0.925	0	0	0.001	0.005	0.004	
11/2/2018 17:07			0	0.925	0	0	0	0.005	0.004	
11/2/2018 17:08			0	0.925	0	0	0.017	0.005	0.004	
11/2/2018 17:09			0	0.925	0.001	0	0.002	0.005	0.003	
11/2/2018 17:10	12.6	79	0	0.925	0.001	0	0.001	0.005	0.004	42.4276;-76.50197
11/2/2018 17:11			0	0.925	0.001	0	0.001	0.005	0.004	
11/2/2018 17:12			0	0.925	0.001	0	0.021	0.005	0.004	
11/2/2018 17:13								0.005	0.003	
11/2/2018 17:14								0.005	0.003	
11/2/2018 17:15	12.6	71.9						0.005	0.004	42.42761;-76.50195
11/2/2018 17:16								0.005	0.004	
11/2/2018 17:17								0.005	0.004	
11/2/2018 17:18								0.005	0.004	
11/2/2018 17:19								0.005	0.004	
11/2/2018 17:20	12.6	71.9						0.005	0.004	42.4276;-76.50194
11/2/2018 17:21								0.005	0.005	
11/2/2018 17:22								0.005	0.004	
11/2/2018 17:23								0.005	0.003	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/2/2018 17:24								0.005	0.003	
11/2/2018 17:25	12.6	72.9						0.005	0.004	42.42764;-76.50194
11/2/2018 17:26			0	0.925	0.017	0	0.011	0.005	0.01	
11/2/2018 17:27			0	0.925	0.018	0	0.006	0.005	0.005	
11/2/2018 17:28			0	0.925	0.018	0	0.01	0.005	0.004	
11/2/2018 17:29			0	0.925	0.018	0	0.029	0.005	0.004	
11/2/2018 17:30	12.6	75.9	0	0.925	0.019	0	0.022	0.005	0.004	42.42761;-76.50193
11/2/2018 17:31			0	0.925	0.018	0	0.021	0.005	0.005	
11/2/2018 17:32			0	0.925	0.019	0.001	0.049	0.005	0.004	
11/2/2018 17:33			0	0.925	0.019	0.001	0.042	0.005	0.003	
11/2/2018 17:34			0	0.925	0.021	0.001	0.056	0.005	0.003	
11/2/2018 17:35	12.6	72.9	0	0.925	0.023	0.001	0.049	0.005	0.006	42.42761;-76.50194
11/2/2018 17:36			0	0.925	0.024	0.001	0.042	0.005	0.004	
11/2/2018 17:37			0	0.925	0.027	0.001	0.027	0.005	0.004	
11/2/2018 17:38			0	0.925	0.028	0.001	0.046	0.005	0.004	
11/2/2018 17:39			0	0.925	0.029	0.001	0.048	0.005	0.003	
11/2/2018 17:40	12.6	72.9	0	0.925	0.031	0.001	0.036	0.005	0.004	42.42759;-76.50191
11/2/2018 17:41			0	0.925	0.033	0.001	0.027	0.005	0.007	
11/2/2018 17:42			0	0.925	0.035	0.001	0.04	0.005	0.004	
11/2/2018 17:43			0	0.925	0.037	0.002	0.039	0.005	0.003	
11/2/2018 17:44			0	0.925	0.039	0.002	0.051	0.005	0.005	
11/2/2018 17:45	12.6	75.9	0	0.925	0.04	0.002	0.042	0.005	0.004	42.42762;-76.5019
11/2/2018 17:46			0	0.925	0.041	0.002	0.05	0.005	0.004	
11/2/2018 17:47			0	0.925	0.042	0.002	0.032	0.005	0.004	
11/2/2018 17:48			0	0.925	0.042	0.002	0.033	0.005	0.007	
11/2/2018 17:49			0	0.925	0.042	0.002	0.033	0.005	0.005	
11/2/2018 17:50	12.5	73.9	0	0.925	0.042	0.002	0.047	0.005	0.004	42.4276;-76.50193
11/2/2018 17:51			0	0.925	0.042	0.002	0.059	0.005	0.005	
11/2/2018 17:52			0	0.925	0.042	0.002	0.058	0.005	0.004	
11/2/2018 17:53			0	0.925	0.043	0.002	0.043	0.005	0.004	
11/2/2018 18:24			0	0.925	0.076	0.007	0.064	0.005	0.004	
11/2/2018 18:25	12.5	72.9	0	0.925	0.075	0.007	0.068	0.005	0.004	42.42759;-76.50196
11/2/2018 18:26			0	0.925	0.074	0.007	0.08	0.005	0.005	
11/2/2018 18:27			0	0.925	0.074	0.008	0.067	0.005	0.004	
11/2/2018 18:28			0	0.925	0.073	0.008	0.056	0.005	0.005	
11/2/2018 18:29			0	0.925	0.073	0.008	0.065	0.005	0.005	
11/2/2018 18:30	12.5	72.9	0	0.925	0.071	0.008	0.068	0.005	0.005	42.42763;-76.50195
11/2/2018 18:31			0	0.925	0.071	0.008	0.07	0.005	0.008	
11/2/2018 18:32			0	0.925	0.07	0.008	0.072	0.005	0.006	
11/2/2018 18:33			0	0.925	0.07	0.008	0.071	0.005	0.013	
11/2/2018 18:34			0	0.925	0.07	0.009	0.066	0.006	0.022	
11/2/2018 18:35	12.5	75.9	0	0.925	0.069	0.009	0.068	0.006	0.005	42.42764;-76.50197
11/2/2018 18:36			0	0.925	0.069	0.009	0.061	0.006	0.007	
11/2/2018 18:37			0	0.925	0.069	0.009	0.064	0.006	0.005	
11/2/2018 18:38			0	0.925	0.069	0.009	0.07	0.006	0.005	
11/2/2018 18:39			0	0.925	0.068	0.009	0.072	0.006	0.004	
11/2/2018 18:40	12.5	76.9	0	0.925	0.068	0.009	0.068	0.006	0.005	42.4276;-76.50195
11/2/2018 18:41			0	0.925	0.067	0.01	0.064	0.006	0.006	
11/2/2018 18:42			0	0.925	0.066	0.01	0.059	0.006	0.004	
11/2/2018 18:43			0	0.925	0.065	0.01	0.055	0.006	0.005	
11/2/2018 18:44			0	0.925	0.065	0.01	0.051	0.006	0.005	
11/2/2018 18:45	12.5	75.9	0	0.925	0.065	0.01	0.064	0.006	0.005	42.42762;-76.50193
11/2/2018 18:46			0	0.925	0.064	0.01	0.067	0.006	0.007	
11/2/2018 18:47			0	0.925	0.064	0.01	0.068	0.006	0.006	
11/2/2018 18:48			0	0.925	0.064	0.01	0.061	0.006	0.005	
11/2/2018 18:49			0	0.925	0.063	0.011	0.06	0.006	0.005	
11/2/2018 18:50	12.5	71.9	0	0.925	0.063	0.011	0.058	0.006	0.005	42.42764;-76.50193
11/2/2018 18:51			0	0.925	0.062	0.011	0.053	0.006	0.005	
11/2/2018 18:52			0	0.925	0.061	0.011	0.049	0.006	0.009	
11/2/2018 18:53			0	0.925	0.061	0.011	0.058	0.006	0.008	
11/2/2018 18:54			0	0.925	0.06	0.011	0.063	0.006	0.005	
11/2/2018 18:55	12.5	72.9	0	0.925	0.06	0.011	0.055	0.006	0.005	42.42759;-76.50197
11/2/2018 18:56			0	0.925	0.059	0.011	0.059	0.006	0.005	
11/2/2018 18:57			0	0.925	0.058	0.012	0.061	0.006	0.005	
11/2/2018 18:58			0	0.925	0.058	0.012	0.051	0.006	0.005	
11/2/2018 18:59			0	0.925	0.058	0.012	0.06	0.006	0.005	
11/2/2018 19:00	12.5	72.9	0	0.925	0.057	0.012	0.063	0.006	0.015	42.42759;-76.50193
11/2/2018 19:01			0	0.925	0.057	0.012	0.062	0.006	0.01	
11/2/2018 19:02			0	0.925	0.057	0.012	0.071	0.006	0.006	
11/2/2018 19:03			0	0.925	0.057	0.012	0.056	0.006	0.007	
11/2/2018 19:04			0	0.925	0.057	0.012	0.051	0.006	0.012	
11/2/2018 19:05	12.5	77.9	0	0.925	0.056	0.012	0.065	0.006	0.005	42.42761;-76.50188
11/2/2018 19:06			0	0.925	0.056	0.013	0.067	0.006	0.005	
11/2/2018 19:07			0	0.925	0.057	0.013	0.064	0.006	0.03	
11/2/2018 19:08			0	0.925	0.058	0.013	0.075	0.006	0.044	
11/2/2018 19:09			0	0.925	0.058	0.013	0.062	0.006	0.015	
11/2/2018 19:10	12.5	73.9	0	0.925	0.059	0.013	0.05	0.006	0.007	42.42757;-76.50182
11/2/2018 19:11			0	0.925	0.06	0.013	0.064	0.006	0.005	
11/2/2018 19:12			0	0.925	0.061	0.013	0.065	0.006	0.005	
11/2/2018 19:13			0	0.925	0.061	0.014	0.069	0.006	0.01	
11/2/2018 19:14			0	0.925	0.062	0.014	0.062	0.006	0.005	
11/2/2018 19:15	12.5	73.9	0	0.925	0.063	0.014	0.077	0.006	0.009	42.42757;-76.5019
11/2/2018 19:16			0	0.925	0.064	0.014	0.072	0.006	0.005	
11/2/2018 19:17			0	0.925	0.064	0.014	0.07	0.006	0.005	
11/2/2018 19:18			0	0.925	0.065	0.014	0.071	0.006	0.005	
11/2/2018 19:19			0	0.925	0.066	0.014	0.057	0.006	0.02	
11/2/2018 19:20	12.5	89.1	0	0.925	0.066	0.015	0.07	0.006	0.032	42.42759;-76.50191
11/2/2018 19:21			0	0.925	0.066	0.015	0.071	0.006	0.005	
11/2/2018 19:22			0	0.925	0.066	0.015	0.059	0.006	0.006	
11/2/2018 19:23			0	0.925	0.067	0.015	0.065	0.006	0.006	
11/2/2018 19:24			0	0.925	0.066	0.015	0.069	0.006	0.005	
11/2/2018 19:25	12.5	94.1	0	0.925	0.066	0.015	0.07	0.006	0.005	42.42759;-76.50191
11/2/2018 19:26			0	0.925	0.067	0.015	0.079	0.006	0.005	
11/2/2018 19:27			0	0.925	0.068	0.016	0.077	0.006	0.005	
11/2/2018 19:28			0	0.925	0.068	0.016	0.072	0.006	0.005	
11/2/2018 19:29			0	0.925	0.068	0.016	0.071	0.006	0.005	
11/2/2018 19:30	12.4	74.9	0	0.925	0.069	0.016	0.071	0.006	0.005	42.42757;-76.50191
11/2/2018 19:31			0	0.925	0.069	0.016	0.077	0.006	0.005	
11/2/2018 19:32			0	0.925	0.069	0.016	0.075	0.006	0.005	
11/2/2018 19:33			0	0.925	0.069	0.016	0.066	0.006	0.005	
11/2/2018 19:34			0	0.925	0.069	0.017	0.079	0.006	0.005	
11/2/2018 19:35	12.4	73.9	0	0.925	0.07	0.017	0.083	0.007	0.022	42.4276;-76.50191
11/2/2018 19:36			0	0.925	0.071	0.017	0.075	0.007	0.013	
11/2/2018 19:37			0	0.925	0.071	0.017	0.063	0.007	0.005	
11/2/2018 19:38			0	0.925	0.071	0.017	0.062	0.007	0.005	
11/2/2018 19:39			0	0.925	0.072	0.017	0.059	0.007	0.005	
11/5/2018 15:29								0.001	0.01	
11/5/2018 15:30	12.6	92.1						0.001	0.011	42.42839;-76.50172
11/5/2018 15:31								0.001	0.01	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/5/2018 15:32								0.001	0.01	
11/5/2018 15:33								0.001	0.01	
11/5/2018 15:34								0.001	0.01	
11/5/2018 15:35	12.6	70.9						0.001	0.01	42.42846;-76.50173
11/5/2018 15:36								0.001	0.011	
11/5/2018 15:37								0.001	0.011	
11/5/2018 15:38								0.001	0.011	
11/5/2018 15:39								0.001	0.011	
11/5/2018 15:40	12.6	71.9						0.001	0.011	42.42833;-76.50169
11/5/2018 15:41								0.001	0.01	
11/5/2018 15:42								0.001	0.01	
11/5/2018 15:43								0.001	0.01	
11/5/2018 15:44								0.001	0.01	
11/5/2018 15:45	12.6	74.9						0.001	0.01	42.42833;-76.50166
11/5/2018 15:46								0.001	0.011	
11/5/2018 15:47								0.001	0.01	
11/5/2018 15:48								0.001	0.01	
11/5/2018 15:49								0.001	0.01	
11/5/2018 15:50	12.6	83						0.001	0.01	42.42838;-76.50171
11/5/2018 15:51								0.001	0.009	
11/5/2018 15:52								0.001	0.009	
11/5/2018 15:53								0.001	0.009	
11/5/2018 15:54								0.001	0.009	
11/5/2018 15:55	12.6	71.9						0.001	0.009	42.42837;-76.50169
11/5/2018 15:56								0.001	0.008	
11/5/2018 15:57								0.001	0.009	
11/5/2018 15:58								0.001	0.009	
11/5/2018 15:59								0.001	0.009	
11/5/2018 16:00	12.6	70.9						0.001	0.009	42.42835;-76.50172
11/5/2018 16:01								0.001	0.009	
11/5/2018 16:02								0.001	0.008	
11/5/2018 16:03								0.001	0.009	
11/5/2018 16:04								0.001	0.008	
11/5/2018 16:05	12.6	70.9						0.001	0.008	42.42838;-76.50172
11/5/2018 16:06								0.001	0.008	
11/5/2018 16:07								0.001	0.008	
11/5/2018 16:08								0.001	0.008	
11/5/2018 16:09								0.001	0.008	
11/5/2018 16:10	12.6	72.9						0.001	0.008	42.42834;-76.50172
11/5/2018 16:11								0.001	0.009	
11/5/2018 16:12								0.001	0.009	
11/5/2018 16:13								0.002	0.008	
11/5/2018 16:14								0.002	0.008	
11/5/2018 16:15	12.6	70.9						0.002	0.008	42.42835;-76.50172
11/5/2018 16:16								0.002	0.008	
11/5/2018 16:17								0.002	0.008	
11/5/2018 16:18								0.002	0.007	
11/5/2018 16:19								0.002	0.008	
11/5/2018 16:20	12.6	77.9						0.002	0.007	42.42838;-76.50172
11/5/2018 16:21								0.002	0.007	
11/5/2018 16:22								0.002	0.007	
11/5/2018 16:23								0.002	0.008	
11/5/2018 16:24								0.002	0.008	
11/5/2018 16:25	12.6	69.8						0.002	0.008	42.42831;-76.50163
11/5/2018 16:26								0.002	0.008	
11/5/2018 16:27								0.002	0.007	
11/5/2018 16:28								0.002	0.007	
11/5/2018 16:29								0.002	0.007	
11/5/2018 16:30	12.6	73.9						0.002	0.007	42.42824;-76.50166
11/5/2018 16:31								0.002	0.007	
11/5/2018 16:32								0.002	0.007	
11/5/2018 16:33								0.002	0.007	
11/5/2018 16:34								0.002	0.007	
11/5/2018 16:35	12.5	83						0.002	0.007	42.42833;-76.50168
11/5/2018 16:36								0.002	0.007	
11/5/2018 16:37								0.002	0.007	
11/5/2018 16:38								0.002	0.007	
11/5/2018 16:39								0.002	0.007	
11/5/2018 16:40	12.6	74.9						0.002	0.007	42.42835;-76.5017
11/5/2018 16:41								0.002	0.007	
11/5/2018 16:42								0.002	0.007	
11/5/2018 16:43								0.002	0.007	
11/5/2018 16:44								0.002	0.008	
11/5/2018 16:45	12.5	71.9						0.002	0.008	42.42834;-76.50175
11/5/2018 16:46								0.002	0.007	
11/5/2018 16:47								0.002	0.007	
11/5/2018 16:48								0.002	0.007	
11/5/2018 16:49								0.002	0.008	
11/5/2018 16:50	12.5	72.9						0.002	0.007	42.42836;-76.50164
11/5/2018 16:51								0.002	0.007	
11/5/2018 16:52								0.002	0.013	
11/5/2018 16:53								0.002	0.008	
11/5/2018 16:54								0.002	0.007	
11/5/2018 16:55	12.5	75.9						0.002	0.007	42.42838;-76.50178
11/5/2018 16:56								0.002	0.006	
11/5/2018 16:57								0.002	0.006	
11/5/2018 16:58								0.002	0.006	
11/5/2018 16:59								0.002	0.006	
11/5/2018 17:00	12.5	74.9						0.002	0.008	42.42839;-76.50174
11/5/2018 17:01								0.002	0.008	
11/5/2018 17:02								0.002	0.007	
11/5/2018 17:03								0.002	0.006	
11/5/2018 17:04								0.002	0.006	
11/5/2018 17:05	12.5	83						0.002	0.006	42.42835;-76.50171
11/5/2018 17:06								0.002	0.008	
11/5/2018 17:07								0.002	0.006	
11/5/2018 17:08								0.002	0.006	
11/5/2018 17:09								0.002	0.007	
11/5/2018 17:10	12.6	71.9						0.002	0.006	42.42833;-76.50173
11/5/2018 17:11								0.002	0.006	
11/5/2018 17:12								0.002	0.006	
11/5/2018 17:13								0.002	0.008	
11/5/2018 17:14								0.002	0.006	
11/5/2018 17:15	12.5	71.9						0.002	0.006	42.42836;-76.50178
11/5/2018 17:16								0.002	0.006	
11/5/2018 17:17								0.002	0.006	
11/5/2018 17:18								0.002	0.006	
11/5/2018 17:19								0.002	0.006	
11/5/2018 17:20	12.5	82						0.002	0.006	42.42844;-76.50177

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/5/2018 17:21								0.003	0.006	
11/5/2018 17:22								0.003	0.006	
11/5/2018 17:23								0.003	0.006	
11/5/2018 17:24								0.003	0.006	
11/5/2018 17:25	12.5	80						0.003	0.006	42.42838;-76.50174
11/5/2018 17:26								0.003	0.005	
11/5/2018 17:27								0.003	0.005	
11/5/2018 17:28								0.003	0.005	
11/5/2018 17:29								0.003	0.005	
11/5/2018 17:30	12.5	83						0.003	0.005	42.42846;-76.50172
11/5/2018 17:31								0.003	0.005	
11/5/2018 17:32								0.003	0.005	
11/5/2018 17:33								0.003	0.005	
11/5/2018 17:34								0.003	0.005	
11/5/2018 17:35	12.5	76.9						0.003	0.005	42.42838;-76.50174
11/5/2018 17:36								0.003	0.005	
11/5/2018 17:37								0.003	0.005	
11/5/2018 17:38								0.003	0.005	
11/5/2018 17:39								0.003	0.005	
11/5/2018 17:40	12.5	73.9						0.003	0.005	42.42841;-76.50167
11/5/2018 17:41								0.003	0.005	
11/5/2018 17:42								0.003	0.005	
11/5/2018 17:43								0.003	0.005	
11/5/2018 17:44								0.003	0.005	
11/5/2018 17:45	12.5	74.9						0.003	0.005	42.42839;-76.50176
11/5/2018 17:46								0.003	0.005	
11/5/2018 17:47								0.003	0.005	
11/5/2018 17:48								0.003	0.005	
11/5/2018 17:49								0.003	0.005	
11/5/2018 17:50	12.5	72.9						0.003	0.005	42.42834;-76.50178
11/5/2018 17:51								0.003	0.005	
11/5/2018 17:52								0.003	0.005	
11/5/2018 17:53								0.003	0.005	
11/5/2018 17:54								0.003	0.005	
11/5/2018 17:55	12.5	69.8						0.003	0.005	42.42841;-76.50179
11/5/2018 17:56								0.003	0.005	
11/5/2018 17:57								0.003	0.005	
11/5/2018 17:58								0.003	0.005	
11/5/2018 17:59								0.003	0.005	
11/5/2018 18:00	12.5	79						0.003	0.005	42.42852;-76.50173
11/5/2018 18:01								0.003	0.005	
11/5/2018 18:02								0.003	0.004	
11/5/2018 18:03								0.003	0.004	
11/5/2018 18:04								0.003	0.004	
11/5/2018 18:05	12.5	72.9						0.003	0.004	42.42857;-76.50174
11/5/2018 18:06								0.003	0.004	
11/5/2018 18:07								0.003	0.004	
11/5/2018 18:08								0.003	0.005	
11/5/2018 18:09								0.003	0.004	
11/5/2018 18:10	12.5	72.9						0.003	0.004	42.42836;-76.50169
11/5/2018 18:11								0.003	0.005	
11/5/2018 18:12								0.003	0.005	
11/5/2018 18:13								0.003	0.004	
11/5/2018 18:14								0.003	0.005	
11/5/2018 18:15	12.5	75.9						0.003	0.004	42.42838;-76.50169
11/5/2018 18:16								0.003	0.004	
11/5/2018 18:17								0.003	0.005	
11/5/2018 18:18								0.003	0.004	
11/5/2018 18:19								0.003	0.004	
11/5/2018 18:20	12.5	80						0.003	0.004	42.42839;-76.50169
11/5/2018 18:21								0.003	0.004	
11/5/2018 18:22								0.003	0.004	
11/5/2018 18:23								0.003	0.005	
11/5/2018 18:24								0.003	0.005	
11/5/2018 18:25	12.5	72.9						0.003	0.004	42.42841;-76.50164
11/5/2018 18:26								0.003	0.004	
11/5/2018 18:27								0.003	0.004	
11/5/2018 18:28								0.003	0.004	
11/5/2018 18:29								0.003	0.004	
11/5/2018 18:30	12.5	71.9						0.003	0.004	42.42844;-76.50166
11/5/2018 18:31								0.003	0.005	
11/5/2018 18:32								0.003	0.006	
11/5/2018 18:33								0.003	0.004	
11/5/2018 18:34								0.003	0.004	
11/5/2018 18:35	12.5	73.9						0.003	0.005	42.4284;-76.50169
11/5/2018 18:36								0.003	0.004	
11/5/2018 18:37								0.003	0.004	
11/5/2018 18:38								0.003	0.004	
11/5/2018 18:39								0.003	0.004	
11/5/2018 18:40	12.5	81						0.003	0.004	42.42842;-76.50168
11/5/2018 18:41								0.003	0.004	
11/5/2018 18:42								0.003	0.004	
11/5/2018 18:43								0.003	0.004	
11/5/2018 18:44								0.003	0.004	
11/5/2018 18:45	12.5	75.9						0.003	0.004	42.4284;-76.50169
11/5/2018 18:46								0.003	0.005	
11/5/2018 18:47								0.003	0.009	
11/5/2018 18:48								0.003	0.006	
11/5/2018 18:49								0.003	0.004	
11/5/2018 18:50	12.5	76.9						0.003	0.004	42.42836;-76.50164
11/5/2018 18:51								0.003	0.004	
11/5/2018 18:52								0.003	0.004	
11/5/2018 18:53								0.003	0.004	
11/5/2018 18:54								0.003	0.003	
11/5/2018 18:55	12.5	77.9						0.003	0.003	42.42836;-76.50169
11/5/2018 18:56								0.003	0.003	
11/5/2018 18:57								0.003	0.004	
11/5/2018 18:58								0.003	0.004	
11/5/2018 18:59								0.003	0.004	
11/5/2018 19:00	12.5	82						0.003	0.004	42.42833;-76.5017
11/5/2018 19:01								0.003	0.006	
11/5/2018 19:02								0.003	0.004	
11/5/2018 19:03								0.003	0.004	
11/5/2018 19:04								0.004	0.004	
11/5/2018 19:05	12.5	80						0.004	0.004	42.42836;-76.50167
11/5/2018 19:06								0.004	0.004	
11/5/2018 19:07								0.004	0.004	
11/5/2018 19:08								0.004	0.003	
11/5/2018 19:09								0.004	0.003	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/5/2018 19:10	12.5	87						0.004	0.003	42.42835;-76.50161
11/5/2018 19:11								0.004	0.004	
11/5/2018 19:12								0.004	0.003	
11/5/2018 19:13								0.004	0.003	
11/5/2018 19:14								0.004	0.003	
11/5/2018 19:15	12.5	74.9						0.004	0.003	42.42832;-76.50166
11/5/2018 19:16								0.004	0.003	
11/5/2018 19:17								0.004	0.003	
11/5/2018 19:18								0.004	0.004	
11/5/2018 19:19								0.004	0.004	
11/5/2018 19:20	12.5	71.9						0.004	0.003	42.42838;-76.5016
11/5/2018 19:21								0.004	0.003	
11/5/2018 19:22								0.004	0.003	
11/5/2018 19:23								0.004	0.003	
11/5/2018 19:24								0.004	0.003	
11/5/2018 19:25	12.5	71.9						0.004	0.003	42.42831;-76.50167
11/5/2018 19:26								0.004	0.003	
11/5/2018 19:27								0.004	0.004	
11/5/2018 19:28								0.004	0.003	
11/5/2018 19:29								0.004	0.003	
11/5/2018 20:00	12.4	77.9						0.004	0.003	42.42829;-76.50181
11/5/2018 20:01								0.004	0.003	
11/5/2018 20:02								0.004	0.003	
11/5/2018 20:03								0.004	0.003	
11/5/2018 20:04								0.004	0.003	
11/5/2018 20:05	12.4	71.9						0.004	0.003	42.42846;-76.50175
11/5/2018 20:06								0.004	0.003	
11/5/2018 20:07								0.004	0.003	
11/5/2018 20:08								0.004	0.004	
11/5/2018 20:09								0.004	0.003	
11/5/2018 20:10	12.4	81						0.004	0.003	42.42844;-76.50174
11/5/2018 20:11								0.004	0.003	
11/5/2018 20:12								0.004	0.003	
11/5/2018 20:13								0.004	0.003	
11/5/2018 20:14								0.004	0.003	
11/5/2018 20:15	12.4	72.9						0.004	0.003	42.42842;-76.50174
11/5/2018 20:16								0.004	0.004	
11/5/2018 20:17								0.004	0.004	
11/5/2018 20:18								0.004	0.003	
11/5/2018 20:19								0.004	0.003	
11/5/2018 20:20	12.4	84						0.004	0.003	42.42834;-76.50166
11/5/2018 20:21								0.004	0.003	
11/5/2018 20:22								0.004	0.003	
11/5/2018 20:23								0.004	0.003	
11/5/2018 20:24								0.004	0.003	
11/5/2018 20:25	12.4	75.9						0.004	0.004	42.42832;-76.50162
11/5/2018 20:26								0.004	0.003	
11/5/2018 20:27								0.004	0.004	
11/5/2018 20:28								0.004	0.003	
11/5/2018 20:29								0.004	0.003	
11/5/2018 20:30	12.4	79						0.004	0.003	42.42844;-76.50169
11/5/2018 20:31								0.004	0.003	
11/5/2018 20:32								0.004	0.004	
11/5/2018 20:33								0.004	0.003	
11/5/2018 20:34								0.004	0.003	
11/5/2018 20:35	12.4	72.9						0.004	0.003	42.42838;-76.50177
11/5/2018 20:36								0.004	0.003	
11/5/2018 20:37								0.004	0.003	
11/5/2018 20:38								0.004	0.003	
11/5/2018 20:39								0.004	0.003	
11/5/2018 20:40	12.4	75.9						0.004	0.003	42.42842;-76.50174
11/5/2018 20:41								0.004	0.003	
11/5/2018 20:42								0.004	0.003	
11/5/2018 20:43								0.004	0.003	
11/5/2018 20:44								0.004	0.003	
11/5/2018 20:45	12.4	72.9						0.004	0.003	42.42839;-76.50174
11/5/2018 20:46								0.004	0.003	
11/5/2018 20:47								0.004	0.003	
11/5/2018 20:48								0.004	0.003	
11/5/2018 20:49								0.004	0.003	
11/5/2018 20:50	12.4	87						0.004	0.003	42.42832;-76.50169
11/5/2018 20:51								0.004	0.003	
11/5/2018 20:52								0.004	0.003	
11/5/2018 20:53								0.004	0.005	
11/5/2018 20:54								0.004	0.006	
11/5/2018 20:55	12.3	82						0.004	0.003	42.42843;-76.50171
11/5/2018 20:56								0.004	0.004	
11/5/2018 20:57								0.004	0.004	
11/5/2018 20:58								0.004	0.003	
11/5/2018 20:59								0.004	0.003	
11/5/2018 21:00	12.3	74.9						0.004	0.003	42.42868;-76.50156
11/5/2018 21:01								0.004	0.004	
11/5/2018 21:02								0.004	0.004	
11/5/2018 21:03								0.004	0.003	
11/6/2018 12:58	12.9	94.1								
11/6/2018 12:59										42.4313802;-76.50380140000001
11/6/2018 13:00	12.8	73.9								42.4284;-76.50172
11/6/2018 13:05	12.8	70.9								42.4284;-76.50177
11/6/2018 13:06								0	0.007	
11/6/2018 13:07								0	0.008	
11/6/2018 13:08								0	0.007	
11/6/2018 13:09								0	0.007	
11/6/2018 13:10	12.8	72.9						0	0.008	42.42839;-76.50175
11/6/2018 13:11								0	0.007	
11/6/2018 13:12								0	0.007	
11/6/2018 13:13								0	0.006	
11/6/2018 13:14								0	0.006	
11/6/2018 13:15	12.8	72.9						0	0.006	42.4284;-76.50176
11/6/2018 13:16								0	0.006	
11/6/2018 13:17								0	0.006	
11/6/2018 13:18								0	0.006	
11/6/2018 13:19								0	0.006	
11/6/2018 13:20	12.8	73.9						0	0.006	42.42835;-76.50172
11/6/2018 13:21								0	0.005	
11/6/2018 13:22								0	0.005	
11/6/2018 13:23								0	0.005	
11/6/2018 13:24								0	0.005	
11/6/2018 13:25	12.8	73.9						0	0.005	42.42839;-76.50175
11/6/2018 13:26								0	0.005	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/6/2018 13:27								0	0.005	
11/6/2018 13:28								0	0.005	
11/6/2018 13:29								0	0.006	
11/6/2018 13:30	12.8	74.9						0	0.006	42.42839;-76.50173
11/6/2018 13:31								0	0.005	
11/6/2018 13:32								0	0.006	
11/6/2018 14:03			0	0	0	0	0	0.001	0.004	
11/6/2018 14:04			0	0	0	0	0	0.001	0.004	
11/6/2018 14:05	12.7	81	0	0	0	0	0	0.001	0.004	42.42846;-76.50175
11/6/2018 14:06			0	0	0	0	0	0.001	0.004	
11/6/2018 14:07			0	0	0	0	0	0.001	0.004	
11/6/2018 14:08			0	0	0	0	0	0.001	0.004	
11/6/2018 14:09			0	0	0	0	0	0.001	0.003	
11/6/2018 14:10	12.7	69.8	0	0	0	0	0	0.001	0.003	42.42841;-76.50169
11/6/2018 14:11			0	0	0	0	0	0.001	0.003	
11/6/2018 14:12			0	0	0	0	0	0.001	0.004	
11/6/2018 14:13			0	0	0	0	0	0.001	0.004	
11/6/2018 14:14			0	0	0	0	0	0.001	0.003	
11/6/2018 14:15	12.7	71.9	0	0	0	0	0	0.001	0.003	42.42843;-76.50179
11/6/2018 14:16			0	0	0	0	0	0.001	0.003	
11/6/2018 14:17			0	0	0	0	0	0.001	0.003	
11/6/2018 14:18			0	0	0	0	0	0.001	0.003	
11/6/2018 14:19			0	0	0	0	0	0.001	0.004	
11/6/2018 14:20	12.7	69.8	0	0	0	0	0	0.001	0.004	42.42844;-76.50173
11/6/2018 14:21			0	0	0	0	0	0.001	0.003	
11/6/2018 14:22			0	0	0	0	0	0.001	0.003	
11/6/2018 14:23			0	0	0	0	0	0.001	0.003	
11/6/2018 14:24			0	0	0	0	0	0.001	0.003	
11/6/2018 14:25	12.7	75.9	0	0	0	0	0	0.001	0.004	42.42846;-76.50169
11/6/2018 14:26			0	0	0	0	0	0.001	0.004	
11/6/2018 14:27			0	0	0	0	0	0.001	0.004	
11/6/2018 14:28			0	0	0	0	0	0.001	0.003	
11/6/2018 14:29			0	0	0	0	0	0.001	0.003	
11/6/2018 14:30	12.7	77.9	0	0	0	0	0	0.001	0.003	42.4284;-76.50163
11/6/2018 14:31			0	0	0	0	0	0.001	0.003	
11/6/2018 14:32			0	0	0	0	0	0.001	0.003	
11/6/2018 14:33			0	0	0	0	0	0.001	0.003	
11/6/2018 14:34			0	0	0	0	0	0.001	0.004	
11/6/2018 14:35	12.7	71.9	0	0	0	0	0	0.001	0.003	42.42841;-76.50163
11/6/2018 14:36			0	0	0	0	0	0.001	0.003	
11/6/2018 14:37			0	0	0	0	0	0.001	0.003	
11/6/2018 14:38			0	0	0	0	0	0.001	0.003	
11/6/2018 14:39			0	0	0	0	0	0.001	0.003	
11/6/2018 14:40	12.7	79	0	0	0	0	0	0.001	0.003	42.42838;-76.50175
11/6/2018 14:41			0	0	0	0	0	0.001	0.003	
11/6/2018 14:42			0	0	0	0	0	0.001	0.003	
11/6/2018 14:43			0	0	0	0	0	0.001	0.003	
11/6/2018 14:44			0	0	0	0	0	0.001	0.003	
11/6/2018 14:45	12.7	70.9	0	0	0	0	0	0.001	0.004	42.42825;-76.50179
11/6/2018 14:46			0	0	0	0	0	0.001	0.004	
11/6/2018 14:47			0	0	0	0	0	0.001	0.004	
11/6/2018 14:48			0	0	0	0	0	0.001	0.004	
11/6/2018 14:49			0	0	0	0	0	0.001	0.004	
11/6/2018 14:50	12.7	77.9	0	0	0	0	0	0.001	0.003	42.4285;-76.50159
11/6/2018 14:51			0	0	0	0	0	0.001	0.003	
11/6/2018 14:52			0	0	0	0	0	0.001	0.003	
11/6/2018 14:53			0	0	0	0	0	0.001	0.003	
11/6/2018 14:54			0	0	0	0	0	0.001	0.003	
11/6/2018 14:55	12.7	80	0	0	0	0	0	0.001	0.005	42.42851;-76.50156
11/6/2018 14:56			0	0	0	0	0	0.001	0.003	
11/6/2018 14:57			0	0	0	0	0	0.001	0.003	
11/6/2018 14:58			0	0	0	0	0	0.001	0.003	
11/6/2018 14:59			0	0	0	0	0	0.001	0.003	
11/6/2018 15:00	12.7	70.9	0	0	0	0	0	0.001	0.003	42.42852;-76.50159
11/6/2018 15:01			0	0	0	0	0	0.001	0.003	
11/6/2018 15:02			0	0	0	0	0	0.001	0.003	
11/6/2018 15:03			0	0	0	0	0	0.001	0.003	
11/6/2018 15:04			0	0	0	0	0	0.001	0.003	
11/6/2018 15:05	12.7	72.9	0	0	0	0	0	0.001	0.003	42.42845;-76.50166
11/6/2018 15:06			0	0	0	0	0	0.001	0.003	
11/6/2018 15:07			0	0	0	0	0	0.001	0.003	
11/6/2018 15:08			0	0	0	0	0	0.001	0.003	
11/6/2018 15:09			0	0	0	0	0	0.001	0.003	
11/6/2018 15:10	12.7	74.9	0	0	0	0	0	0.001	0.002	42.42842;-76.50164
11/6/2018 15:11			0	0	0	0	0	0.001	0.003	
11/6/2018 15:12			0	0	0	0	0	0.001	0.003	
11/6/2018 15:13			0	0	0	0	0	0.001	0.002	
11/6/2018 15:14			0	0	0	0	0	0.001	0.003	
11/6/2018 15:15	12.7	72.9	0	0	0	0	0	0.001	0.003	42.42838;-76.50169
11/6/2018 15:16			0	0	0	0	0	0.001	0.003	
11/6/2018 15:17			0	0	0	0	0	0.001	0.003	
11/6/2018 15:18			0	0	0	0	0	0.001	0.003	
11/6/2018 15:19			0	0	0	0	0	0.001	0.002	
11/6/2018 15:20	12.7	80	0	0	0	0	0	0.001	0.003	42.42838;-76.50172
11/6/2018 15:21			0	0	0	0	0	0.001	0.003	
11/6/2018 15:22			0	0	0	0	0	0.001	0.003	
11/6/2018 15:23			0	0	0	0	0	0.001	0.004	
11/6/2018 15:24			0	0	0	0	0	0.001	0.003	
11/6/2018 15:25	12.7	83	0	0	0	0	0	0.001	0.01	42.42838;-76.50165
11/6/2018 15:26			0	0	0	0	0	0.001	0.003	
11/6/2018 15:27			0	0	0	0	0	0.001	0.003	
11/6/2018 15:28			0	0	0	0	0	0.001	0.003	
11/6/2018 15:29			0	0	0	0	0	0.001	0.004	
11/6/2018 15:30	12.7	80	0	0	0	0	0	0.001	0.003	42.42837;-76.5017
11/6/2018 15:31			0	0	0	0	0	0.001	0.003	
11/6/2018 15:32			0	0	0	0	0	0.001	0.003	
11/6/2018 15:33			0	0	0	0	0	0.001	0.003	
11/6/2018 15:34			0	0	0	0	0	0.001	0.003	
11/6/2018 15:35	12.7	80	0	0	0	0	0	0.001	0.003	42.42839;-76.50168
11/6/2018 15:36			0	0	0	0	0	0.001	0.008	
11/6/2018 15:37			0	0	0	0	0	0.001	0.004	
11/6/2018 15:38			0	0	0	0	0	0.001	0.003	
11/6/2018 15:39			0	0	0	0	0	0.001	0.004	
11/6/2018 15:40	12.7	76.9	0	0	0	0	0	0.001	0.004	42.42841;-76.50171
11/6/2018 15:41			0	0	0	0	0	0.001	0.003	
11/6/2018 15:42			0	0	0	0	0	0.001	0.003	
11/6/2018 15:43			0	0	0	0	0	0.001	0.003	
11/6/2018 15:44			0	0	0	0	0	0.001	0.003	
11/6/2018 15:45	12.7	76.9	0	0	0	0	0	0.001	0.003	42.42839;-76.50172

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/6/2018 15:46			0	0	0	0	0	0.001	0.003	
11/6/2018 15:47			0	0	0	0	0	0.001	0.003	
11/6/2018 15:48			0	0	0	0	0	0.001	0.003	
11/6/2018 15:49			0	0	0	0	0	0.001	0.003	
11/6/2018 15:50	12.6	76.9	0	0	0	0	0	0.001	0.003	42.42838;-76.50166
11/6/2018 15:51			0	0	0	0	0	0.001	0.003	
11/6/2018 15:52			0	0	0	0	0	0.001	0.003	
11/6/2018 15:53			0	0	0	0	0	0.001	0.003	
11/6/2018 15:54			0	0	0	0	0	0.001	0.003	
11/6/2018 15:55	12.6	79	0	0	0	0	0	0.001	0.003	42.4284;-76.50169
11/6/2018 15:56			0	0	0	0	0	0.001	0.003	
11/6/2018 15:57			0	0	0	0	0	0.001	0.003	
11/6/2018 16:28			0	0	0	0	0	0.002	0.002	
11/6/2018 16:29			0	0	0	0	0	0.002	0.002	
11/6/2018 16:30	12.6	87	0	0	0	0	0	0.002	0.002	42.42821;-76.50159
11/6/2018 16:31			0	0	0	0	0	0.002	0.002	
11/6/2018 16:32			0	0	0	0	0	0.002	0.002	
11/6/2018 16:33			0	0	0	0	0	0.002	0.002	
11/6/2018 16:34			0	0	0	0	0	0.002	0.002	
11/6/2018 16:35	12.6	79	0	0	0	0	0	0.002	0.002	42.42822;-76.50157
11/6/2018 16:36			0	0	0	0	0	0.002	0.003	
11/6/2018 16:37			0	0	0	0	0	0.002	0.003	
11/6/2018 16:38			0	0	0	0	0	0.002	0.003	
11/6/2018 16:39			0	0	0	0	0	0.002	0.002	
11/6/2018 16:40	12.6	83	0	0	0	0	0	0.002	0.002	42.4283;-76.5017
11/6/2018 16:41			0	0	0	0	0	0.002	0.002	
11/6/2018 16:42			0	0	0	0	0	0.002	0.002	
11/6/2018 16:43			0	0	0	0	0	0.002	0.002	
11/6/2018 16:44			0	0	0	0	0	0.002	0.003	
11/6/2018 16:45	12.6	83	0	0	0	0	0	0.002	0.003	42.42839;-76.50172
11/6/2018 16:46			0	0	0	0	0	0.002	0.003	
11/6/2018 16:47			0	0	0	0	0	0.002	0.003	
11/6/2018 16:48			0	0	0	0	0	0.002	0.003	
11/6/2018 16:49			0	0	0	0	0	0.002	0.004	
11/6/2018 16:50	12.6	75.9	0	0	0	0	0	0.002	0.004	42.42841;-76.50171
11/6/2018 16:51			0	0	0	0	0	0.002	0.003	
11/6/2018 16:52			0	0	0	0	0	0.002	0.003	
11/6/2018 16:53			0	0	0	0	0	0.002	0.003	
11/6/2018 16:54			0	0	0	0	0	0.002	0.003	
11/6/2018 16:55	12.6	70.9	0	0	0	0	0	0.002	0.003	42.42838;-76.5017
11/6/2018 16:56			0	0	0	0	0	0.002	0.002	
11/6/2018 16:57			0	0	0	0	0	0.002	0.003	
11/6/2018 16:58			0	0	0	0	0	0.002	0.003	
11/6/2018 16:59			0	0	0	0	0	0.002	0.003	
11/6/2018 17:00	12.5	89.1	0	0	0	0	0	0.002	0.003	42.42838;-76.50169
11/6/2018 17:01			0	0	0	0	0	0.002	0.003	
11/6/2018 17:02			0	0	0	0	0	0.002	0.003	
11/6/2018 17:03			0	0	0	0	0	0.002	0.002	
11/6/2018 17:04			0	0	0	0	0	0.002	0.002	
11/6/2018 17:05	12.5	76.9	0	0	0	0	0	0.002	0.002	42.42837;-76.5017
11/6/2018 17:06			0	0	0	0	0	0.002	0.002	
11/6/2018 17:07			0	0	0	0	0	0.002	0.002	
11/6/2018 17:08			0	0	0	0	0	0.002	0.002	
11/6/2018 17:09			0	0	0	0	0	0.002	0.002	
11/6/2018 17:10	12.5	70.9	0	0	0	0	0	0.002	0.002	42.42833;-76.50169
11/6/2018 17:11			0	0	0	0	0	0.002	0.002	
11/6/2018 17:12			0	0	0	0	0	0.002	0.002	
11/6/2018 17:13			0	0	0	0	0	0.002	0.002	
11/6/2018 17:14			0	0	0	0	0	0.002	0.003	
11/6/2018 17:15	12.5	71.9	0	0	0	0	0	0.002	0.002	42.42836;-76.50172
11/6/2018 17:16			0	0	0	0	0	0.002	0.002	
11/6/2018 17:17			0	0	0	0	0	0.002	0.002	
11/6/2018 17:18			0	0	0	0	0	0.002	0.002	
11/6/2018 17:19			0	0	0	0	0	0.002	0.002	
11/6/2018 17:20	12.5	82	0	0	0	0	0	0.002	0.002	42.42839;-76.50172
11/6/2018 17:21			0	0	0	0	0	0.002	0.002	
11/6/2018 17:22			0	0	0	0	0	0.002	0.002	
11/6/2018 17:23			0	0	0	0	0	0.002	0.002	
11/6/2018 17:24			0	0	0	0	0	0.002	0.002	
11/6/2018 17:25	12.5	77.9	0	0	0	0	0	0.002	0.002	42.42834;-76.50171
11/6/2018 17:26			0	0	0	0	0	0.002	0.002	
11/6/2018 17:27			0	0	0	0	0	0.002	0.003	
11/6/2018 17:28			0	0	0	0	0	0.002	0.003	
11/6/2018 17:29			0	0	0	0	0	0.002	0.002	
11/6/2018 17:30	12.5	84	0	0	0	0	0	0.002	0.002	42.42837;-76.50171
11/6/2018 17:31			0	0	0	0	0	0.002	0.003	
11/6/2018 17:32			0	0	0	0	0	0.002	0.003	
11/6/2018 17:33			0	0	0	0	0	0.002	0.002	
11/6/2018 17:34			0	0	0	0	0	0.002	0.002	
11/6/2018 17:35	12.5	83	0	0	0	0	0	0.002	0.002	42.4283;-76.50176
11/6/2018 17:36			0	0	0	0	0	0.002	0.002	
11/6/2018 17:37			0	0	0	0	0	0.002	0.002	
11/6/2018 17:38			0	0	0	0	0	0.002	0.002	
11/6/2018 17:39			0	0	0	0	0	0.002	0.003	
11/6/2018 17:40	12.5	83	0	0	0	0	0	0.002	0.002	42.42837;-76.50173
11/6/2018 17:41			0	0	0	0	0	0.002	0.002	
11/6/2018 17:42			0	0	0	0	0	0.002	0.002	
11/6/2018 17:43			0	0	0	0	0	0.002	0.002	
11/6/2018 17:44			0	0	0	0	0	0.002	0.003	
11/6/2018 17:45	12.5	83	0	0	0	0	0	0.002	0.003	42.42839;-76.5017
11/6/2018 17:46			0	0	0	0	0	0.002	0.003	
11/6/2018 17:47			0	0	0	0	0	0.002	0.003	
11/6/2018 17:48			0	0	0	0	0	0.002	0.003	
11/6/2018 17:49			0	0	0	0	0	0.002	0.003	
11/6/2018 17:50	12.5	82	0	0	0	0	0	0.002	0.002	42.42846;-76.5017
11/6/2018 17:51			0	0	0	0	0	0.002	0.002	
11/6/2018 17:52			0	0	0	0	0	0.002	0.002	
11/6/2018 17:53			0	0	0	0	0	0.002	0.002	
11/6/2018 17:54			0	0	0	0	0	0.002	0.002	
11/6/2018 17:55	12.5	83	0	0	0	0	0	0.002	0.002	42.42847;-76.50172
11/6/2018 17:56			0	0	0	0	0	0.002	0.003	
11/6/2018 17:57			0	0	0	0	0	0.002	0.003	
11/6/2018 17:58			0	0	0	0	0	0.002	0.003	
11/6/2018 17:59			0	0	0	0	0	0.002	0.002	
11/6/2018 18:00	12.5	82	0	0	0	0	0	0.002	0.002	42.42845;-76.50175
11/6/2018 18:01			0	0	0	0	0	0.002	0.002	
11/6/2018 18:02			0	0	0	0	0	0.002	0.002	
11/6/2018 18:03			0	0	0	0	0	0.002	0.003	
11/6/2018 18:04			0	0	0	0	0	0.002	0.003	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/6/2018 18:05	12.4	87	0	0	0	0	0	0.002	0.003	42.42842;-76.50175
11/6/2018 18:06			0	0	0	0	0	0.002	0.002	
11/6/2018 18:07			0	0	0	0	0	0.002	0.003	
11/6/2018 18:08			0	0	0	0	0	0.002	0.003	
11/6/2018 18:09			0	0	0	0	0	0.002	0.009	
11/6/2018 18:10	12.4	73.9	0	0	0	0	0	0.002	0.003	42.42845;-76.50169
11/6/2018 18:11			0	0	0	0	0	0.002	0.002	
11/6/2018 18:12			0	0	0	0	0	0.002	0.002	
11/6/2018 18:13			0	0	0	0	0	0.002	0.002	
11/6/2018 18:14			0	0	0	0	0	0.002	0.002	
11/6/2018 18:15	12.4	83	0	0	0	0	0	0.002	0.002	42.42839;-76.50172
11/6/2018 18:16			0	0	0	0	0	0.002	0.002	
11/6/2018 18:17			0	0	0	0	0	0.002	0.002	
11/6/2018 18:18			0	0	0	0	0	0.002	0.002	
11/6/2018 18:19			0	0	0	0	0	0.002	0.002	
11/6/2018 18:20	12.4	73.9	0	0	0	0	0	0.002	0.002	42.42835;-76.50171
11/6/2018 18:21			0	0	0	0	0	0.002	0.002	
11/6/2018 18:22			0	0	0	0	0	0.002	0.002	
11/6/2018 18:53			0	0	0	0	0	0.002	0.002	
11/6/2018 18:54			0	0	0	0	0	0.002	0.002	
11/6/2018 18:55	12.4	73.9	0	0	0	0	0	0.002	0.002	42.42833;-76.5017
11/6/2018 18:56			0	0	0	0	0	0.002	0.002	
11/6/2018 18:57			0	0	0	0	0	0.002	0.002	
11/6/2018 18:58			0	0	0	0	0	0.002	0.002	
11/6/2018 18:59			0	0	0	0	0	0.002	0.002	
11/6/2018 19:00	12.4	72.9	0	0	0	0	0	0.002	0.002	42.42834;-76.50166
11/6/2018 19:01			0	0	0	0	0	0.002	0.002	
11/6/2018 19:02			0	0	0	0	0	0.002	0.002	
11/6/2018 19:03			0	0	0	0	0	0.002	0.002	
11/6/2018 19:04			0	0	0	0	0	0.002	0.002	
11/6/2018 19:05	12.4	73.9	0	0	0	0	0	0.002	0.002	42.42831;-76.50166
11/6/2018 19:06			0	0	0	0	0	0.002	0.002	
11/6/2018 19:07			0	0	0	0	0	0.002	0.002	
11/6/2018 19:08			0	0	0	0	0	0.002	0.002	
11/6/2018 19:09			0	0	0	0	0	0.002	0.002	
11/6/2018 19:10	12.4	72.9	0	0	0	0	0	0.002	0.002	42.42831;-76.50166
11/6/2018 19:11			0	0	0	0	0	0.002	0.002	
11/6/2018 19:12			0	0	0	0	0	0.002	0.002	
11/6/2018 19:13			0	0	0	0	0	0.002	0.002	
11/6/2018 19:14			0	0	0	0	0	0.002	0.002	
11/6/2018 19:15	12.4	73.9	0	0	0	0	0	0.002	0.002	42.42831;-76.50171
11/6/2018 19:16			0	0	0	0	0	0.002	0.002	
11/6/2018 19:17			0	0	0	0	0	0.002	0.002	
11/6/2018 19:18			0	0	0	0	0	0.002	0.002	
11/6/2018 19:19			0	0	0	0	0	0.002	0.002	
11/6/2018 19:20	12.4	83	0	0	0	0	0	0.002	0.002	42.42835;-76.50183
11/6/2018 19:21			0	0	0	0	0	0.002	0.002	
11/6/2018 19:22			0	0	0	0	0	0.002	0.002	
11/6/2018 19:23			0	0	0	0	0	0.002	0.002	
11/6/2018 19:24			0	0	0	0	0	0.002	0.002	
11/6/2018 19:25	12.4	71.9	0	0	0	0	0	0.002	0.002	42.42833;-76.50176
11/6/2018 19:26			0	0	0	0	0	0.002	0.002	
11/6/2018 19:27			0	0	0	0	0	0.002	0.002	
11/6/2018 19:28			0	0	0	0	0	0.002	0.002	
11/6/2018 19:29			0	0	0	0	0	0.002	0.002	
11/6/2018 19:30	12.4	74.9	0	0	0	0	0	0.002	0.002	42.42835;-76.50171
11/6/2018 19:31			0	0	0	0	0	0.002	0.002	
11/6/2018 19:32			0	0	0	0	0	0.002	0.002	
11/6/2018 19:33			0	0	0	0	0	0.002	0.002	
11/6/2018 19:34			0	0	0	0	0	0.002	0.002	
11/6/2018 19:35	12.4	81	0	0	0	0	0	0.002	0.002	42.42834;-76.50171
11/6/2018 19:36			0	0	0	0	0	0.002	0.002	
11/6/2018 19:37			0	0	0	0	0	0.002	0.002	
11/6/2018 19:38			0	0	0	0	0	0.003	0.002	
11/6/2018 19:39			0	0	0	0	0	0.003	0.002	
11/6/2018 19:40	12.4	80	0	0	0	0	0	0.003	0.002	42.42833;-76.50172
11/6/2018 19:41			0	0	0	0	0	0.003	0.003	
11/6/2018 19:42			0	0	0	0	0	0.003	0.002	
11/6/2018 19:43			0	0	0	0	0	0.003	0.002	
11/6/2018 19:44			0	0	0	0	0	0.003	0.002	
11/6/2018 19:45	12.4	72.9	0	0	0	0	0	0.003	0.002	42.42838;-76.50177
11/6/2018 19:46			0	0	0	0	0	0.003	0.002	
11/6/2018 19:47			0	0	0	0	0	0.003	0.002	
11/6/2018 19:48			0	0	0	0	0	0.003	0.002	
11/6/2018 19:49			0	0	0	0	0	0.003	0.002	
11/6/2018 19:50	12.4	74.9	0	0	0	0	0	0.003	0.002	42.42838;-76.50175
11/6/2018 19:51			0	0	0	0	0	0.003	0.003	
11/6/2018 19:52			0	0	0	0	0	0.003	0.002	
11/6/2018 19:53			0	0	0	0	0	0.003	0.002	
11/6/2018 19:54			0	0	0	0	0	0.003	0.002	
11/6/2018 19:55	12.4	73.9	0	0	0	0	0	0.003	0.002	42.42831;-76.50172
11/6/2018 19:56			0	0	0	0	0	0.003	0.003	
11/6/2018 19:57			0	0	0	0	0	0.003	0.002	
11/6/2018 19:58			0	0	0	0	0	0.003	0.002	
11/6/2018 19:59			0	0	0	0	0	0.003	0.002	
11/6/2018 20:00	12.4	82	0	0	0	0	0	0.003	0.002	42.42836;-76.5017
11/6/2018 20:01			0	0	0	0	0	0.003	0.002	
11/6/2018 20:02			0	0	0	0	0	0.003	0.002	
11/6/2018 20:03			0	0	0	0	0	0.003	0.002	
11/6/2018 20:04			0	0	0	0	0	0.003	0.002	
11/6/2018 20:05	12.4	72.9	0	0	0	0	0	0.003	0.003	42.4284;-76.50176
11/6/2018 20:06			0	0	0	0	0	0.003	0.003	
11/6/2018 20:07			0	0	0	0	0	0.003	0.002	
11/6/2018 20:08			0	0	0	0	0	0.003	0.002	
11/6/2018 20:09			0	0	0	0	0	0.003	0.003	
11/6/2018 20:10	12.4	76.9	0	0	0	0	0	0.003	0.002	42.42835;-76.50174
11/6/2018 20:11			0	0	0	0	0	0.003	0.003	
11/6/2018 20:12			0	0	0	0	0	0.003	0.003	
11/6/2018 20:13			0	0	0	0	0	0.003	0.003	
11/6/2018 20:14			0	0	0	0	0	0.003	0.003	
11/6/2018 20:15	12.3	73.9	0	0	0	0	0	0.003	0.003	42.4284;-76.50179
11/6/2018 20:16			0	0	0	0	0	0.003	0.003	
11/6/2018 20:17			0	0	0	0	0	0.003	0.003	
11/6/2018 20:18			0	0	0	0	0	0.003	0.003	
11/6/2018 20:19			0	0	0	0	0	0.003	0.003	
11/6/2018 20:20	12.3	79	0	0	0	0	0	0.003	0.003	42.4284;-76.50175
11/6/2018 20:21			0	0	0	0	0	0.003	0.003	
11/6/2018 20:22			0	0	0	0	0	0.003	0.003	
11/6/2018 20:23			0	0	0	0	0	0.003	0.003	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/6/2018 20:24			0	0	0	0	0	0.003	0.003	
11/6/2018 20:25	12.3	73.9	0	0	0	0	0	0.003	0.003	42.42839;-76.50177
11/6/2018 20:26			0	0	0	0	0	0.003	0.003	
11/6/2018 20:27			0	0	0	0	0	0.003	0.003	
11/6/2018 20:28			0	0	0	0	0	0.003	0.003	
11/6/2018 20:29			0	0	0	0	0	0.003	0.003	
11/6/2018 20:30	12.3	83	0	0	0	0	0	0.003	0.003	42.42838;-76.50184
11/6/2018 20:31			0	0	0	0	0	0.003	0.003	
11/6/2018 20:32			0	0	0	0	0	0.003	0.003	
11/6/2018 20:33			0	0	0	0	0	0.003	0.003	
11/6/2018 20:34			0	0	0	0	0	0.003	0.003	
11/6/2018 20:35	12.3	83	0	0	0	0	0	0.003	0.003	42.42839;-76.50177
11/6/2018 20:36			0	0	0	0	0	0.003	0.003	
11/6/2018 20:37			0	0	0	0	0	0.003	0.003	
11/6/2018 20:38			0	0	0	0	0	0.003	0.003	
11/6/2018 20:39			0	0	0	0	0	0.003	0.003	
11/6/2018 20:40	12.3	86	0	0	0	0	0	0.003	0.003	42.42838;-76.50179
11/6/2018 20:41			0	0	0	0	0	0.003	0.003	
11/6/2018 20:42			0	0	0	0	0	0.003	0.003	
11/6/2018 20:43			0	0	0	0	0	0.003	0.003	
11/6/2018 20:44			0	0	0	0	0	0.003	0.003	
11/6/2018 20:45	12.3	84	0	0	0	0	0	0.003	0.003	42.42837;-76.50175
11/6/2018 20:46			0	0	0	0	0	0.003	0.003	
11/6/2018 20:47			0	0	0	0	0	0.003	0.003	
11/6/2018 21:18			0	0.023	0.001	0	0.02	0.003	0.004	
11/6/2018 21:19			0	0.027	0.002	0	0.027	0.003	0.004	
11/6/2018 21:20	12.3	72.9	0	0.038	0.003	0	0.031	0.003	0.004	42.42838;-76.50175
11/6/2018 21:21			0	0.038	0.005	0	0.03	0.003	0.004	
11/6/2018 21:22			0	0.045	0.007	0	0.033	0.003	0.004	
11/6/2018 21:23			0	0.045	0.009	0	0.023	0.003	0.004	
11/6/2018 21:24			0	0.045	0.011	0	0.033	0.003	0.004	
11/6/2018 21:25	12.3	76.9	0	0.045	0.014	0	0.026	0.003	0.004	42.42839;-76.50175
11/6/2018 21:26			0	0.046	0.016	0	0.032	0.003	0.004	
11/6/2018 21:27			0	0.046	0.018	0	0.035	0.003	0.004	
11/6/2018 21:28			0	0.046	0.02	0	0.036	0.003	0.004	
11/6/2018 21:29			0	0.046	0.023	0	0.035	0.003	0.004	
11/6/2018 21:30	12.3	86	0	0.046	0.025	0	0.034	0.003	0.004	42.42847;-76.5017
11/6/2018 21:31			0	0.046	0.027	0	0.042	0.003	0.004	
11/6/2018 21:32			0	0.05	0.029	0	0.044	0.003	0.004	
11/6/2018 21:33			0	0.05	0.031	0.001	0.042	0.003	0.004	
11/6/2018 21:34			0	0.054	0.033	0.001	0.04	0.003	0.004	
11/6/2018 21:35	12.3	84	0	0.054	0.034	0.001	0.04	0.003	0.004	42.42842;-76.50175
11/6/2018 21:36			0	0.054	0.035	0.001	0.045	0.003	0.004	
11/6/2018 21:37			0	0.056	0.036	0.001	0.052	0.003	0.004	
11/6/2018 21:38			0	0.057	0.037	0.001	0.052	0.003	0.004	
11/6/2018 21:39			0	0.062	0.039	0.001	0.051	0.003	0.004	
11/6/2018 21:40	12.3	86	0	0.062	0.04	0.001	0.047	0.003	0.004	42.42842;-76.50175
11/6/2018 21:41			0	0.062	0.041	0.001	0.056	0.003	0.004	
11/6/2018 21:42			0	0.066	0.042	0.001	0.065	0.003	0.004	
11/6/2018 21:43			0	0.066	0.044	0.002	0.05	0.003	0.004	
11/6/2018 21:44			0	0.066	0.045	0.002	0.055	0.003	0.005	
11/6/2018 21:45	12.3	83	0	0.066	0.046	0.002	0.046	0.003	0.005	42.42846;-76.50168
11/6/2018 21:46			0	0.066	0.047	0.002	0.053	0.003	0.004	
11/6/2018 21:47			0	0.066	0.048	0.002	0.063	0.003	0.004	
11/6/2018 21:48			0	0.066	0.049	0.002	0.064	0.003	0.004	
11/6/2018 21:49			0	0.087	0.05	0.002	0.087	0.003	0.01	
11/7/2018 12:45	12.9	94.1								
11/7/2018 12:46			0	0	0	0	0			42.4325371;-76.4946792
11/7/2018 12:47			0	0	0	0	0			
11/7/2018 12:48			0	0	0	0	0			
11/7/2018 12:49			0	0	0	0	0	0	0.01	
11/7/2018 12:50	12.7	74.9	0	0	0	0	0	0	0.012	
11/7/2018 12:50										42.43327;-76.495
11/7/2018 12:51			0	0	0	0	0	0	0.008	
11/7/2018 12:52			0	0	0	0	0	0	0.008	
11/7/2018 12:53			0	0	0	0	0	0	0.009	
11/7/2018 12:54			0	0	0	0	0	0	0.008	
11/7/2018 12:55	12.7	70.9	0	0	0	0	0	0	0.008	
11/7/2018 12:55										42.4333;-76.49502
11/7/2018 12:56			0	0	0	0	0	0	0.008	
11/7/2018 12:57			0	0	0	0	0	0	0.009	
11/7/2018 12:58			0	0	0	0	0	0	0.008	
11/7/2018 12:59			0	0	0	0	0	0	0.009	
11/7/2018 13:00	12.7	73.9	0	0	0	0	0	0	0.009	
11/7/2018 13:00										42.43329;-76.49509
11/7/2018 13:01			0	0	0	0	0	0	0.008	
11/7/2018 13:02			0	0	0	0	0	0	0.008	
11/7/2018 13:03			0	0	0	0	0	0	0.009	
11/7/2018 13:04			0	0	0	0	0	0	0.009	
11/7/2018 13:05	12.7	77.9	0	0	0	0	0	0	0.008	
11/7/2018 13:05										42.43324;-76.49506
11/7/2018 13:06			0	0	0	0	0	0	0.008	
11/7/2018 13:07			0	0	0	0	0	0	0.009	
11/7/2018 13:08			0	0	0	0	0	0	0.008	
11/7/2018 13:09			0	0	0	0	0	0	0.007	
11/7/2018 13:10	12.7	70.9	0	0	0	0	0	0	0.007	
11/7/2018 13:10										42.43325;-76.49506
11/7/2018 13:11			0	0	0	0	0	0	0.008	
11/7/2018 13:12			0	0.209	0.002	0	0	0	0.007	
11/7/2018 13:13			0	0.209	0.002	0	0	0	0.008	
11/7/2018 13:14			0	0.209	0.002	0	0	0	0.007	
11/7/2018 13:15	12.7	70.9	0	0.209	0.002	0	0	0	0.007	
11/7/2018 13:15										42.43323;-76.49504
11/7/2018 13:16			0	0.209	0.003	0	0	0	0.007	
11/7/2018 13:17			0	0.209	0.003	0	0	0	0.007	
11/7/2018 13:18			0	0.209	0.003	0	0	0	0.007	
11/7/2018 13:19			0	0.209	0.003	0	0	0.001	0.007	
11/7/2018 13:20	12.7	74.9	0	0.209	0.003	0	0	0.001	0.007	
11/7/2018 13:20										42.43328;-76.49507
11/7/2018 13:21			0	0.209	0.003	0	0	0.001	0.007	
11/7/2018 13:22			0	0.209	0.003	0	0	0.001	0.009	
11/7/2018 13:23			0	0.209	0.003	0	0	0.001	0.007	
11/7/2018 13:24			0	0.209	0.003	0	0	0.001	0.007	
11/7/2018 13:25	12.7	72.9	0	0.209	0.003	0	0	0.001	0.007	
11/7/2018 13:25										42.43327;-76.49503
11/7/2018 13:26			0	0.209	0.003	0	0	0.001	0.007	
11/7/2018 13:27			0	0.209	0.001	0	0	0.001	0.007	
11/7/2018 13:28			0	0.209	0.001	0	0	0.001	0.008	
11/7/2018 13:29			0	0.209	0.001	0	0	0.001	0.008	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/7/2018 13:30	12.7	79	0	0.209	0.001	0	0	0.001	0.007	
11/7/2018 13:30										42.4333;-76.49507
11/7/2018 13:31			0	0.209	0	0	0.002	0.001	0.007	
11/7/2018 13:32			0	0.209	0	0	0	0.001	0.009	
11/7/2018 13:33			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:34			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:35	12.7	73.9	0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:35										42.43325;-76.495
11/7/2018 13:36			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:37			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:38			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:39			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:40	12.7	70.9	0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:40										42.43333;-76.49507
11/7/2018 13:41			0	0.209	0	0	0	0.001	0.008	
11/7/2018 13:42			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:43			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:44			0	0.209	0	0	0	0.001	0.008	
11/7/2018 13:45	12.7	73.9	0	0.209	0	0	0	0.001	0.01	
11/7/2018 13:45										42.43334;-76.49506
11/7/2018 13:46			0	0.209	0	0	0	0.001	0.008	
11/7/2018 13:47			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:48			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:49			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:50	12.7	70.9	0	0.209	0	0	0	0.001	0.008	
11/7/2018 13:50										42.43325;-76.49507
11/7/2018 13:51			0	0.209	0	0	0	0.001	0.008	
11/7/2018 13:52			0	0.209	0	0	0	0.001	0.008	
11/7/2018 13:53			0	0.209	0	0	0	0.001	0.008	
11/7/2018 13:54			0	0.209	0	0	0	0.001	0.008	
11/7/2018 13:55	12.7	71.9	0	0.209	0	0	0	0.001	0.008	
11/7/2018 13:55										42.43334;-76.49511
11/7/2018 13:56			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:57			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:58			0	0.209	0	0	0	0.001	0.007	
11/7/2018 13:59			0	0.209	0	0	0	0.001	0.008	
11/7/2018 14:00	12.7	84	0	0.209	0	0	0	0.001	0.008	
11/7/2018 14:00										42.43335;-76.4951
11/7/2018 14:01			0	0.209	0	0	0	0.001	0.007	
11/7/2018 14:02			0	0.209	0	0	0	0.001	0.007	
11/7/2018 14:03			0	0.209	0	0	0.011	0.001	0.007	
11/7/2018 14:04			0	0.209	0	0	0	0.001	0.007	
11/7/2018 14:05	12.7	89.1	0	0.209	0	0	0	0.001	0.007	
11/7/2018 14:05										42.43336;-76.49505
11/7/2018 14:06			0	0.209	0	0	0	0.001	0.008	
11/7/2018 14:07			0	0.209	0	0	0	0.001	0.007	
11/7/2018 14:08			0	0.209	0	0	0	0.001	0.007	
11/7/2018 14:09			0	0.209	0	0	0	0.001	0.007	
11/7/2018 14:10	12.7	73.9	0	0.209	0	0	0.001	0.001	0.007	
11/7/2018 14:10										42.43325;-76.49502
11/7/2018 14:11			0	0.209	0	0	0.005	0.001	0.007	
11/7/2018 14:12			0	0.209	0	0	0	0.001	0.007	
11/7/2018 14:13			0	0.209	0	0	0.017	0.001	0.008	
11/7/2018 14:14			0	0.209	0.001	0	0.005	0.001	0.008	
11/7/2018 14:15	12.7	73.9	0	0.209	0.002	0	0.027	0.001	0.007	
11/7/2018 14:15										42.43331;-76.49505
11/7/2018 14:16			0	0.209	0.003	0	0.044	0.001	0.008	
11/7/2018 14:17			0	0.209	0.004	0	0.006	0.001	0.009	
11/7/2018 14:18			0	0.209	0.005	0	0	0.001	0.007	
11/7/2018 14:19			0	0.209	0.005	0	0.02	0.001	0.007	
11/7/2018 14:20	12.6	90.1	0	0.209	0.006	0	0.021	0.001	0.007	
11/7/2018 14:20										42.43333;-76.49501
11/7/2018 14:21			0	0.209	0.007	0	0.016	0.001	0.007	
11/7/2018 14:22			0	0.209	0.008	0	0.013	0.001	0.007	
11/7/2018 14:23			0	0.209	0.008	0	0.008	0.001	0.008	
11/7/2018 14:24			0	0.209	0.01	0	0.007	0.002	0.008	
11/7/2018 14:25	12.6	70.9	0	0.209	0.011	0	0.021	0.002	0.007	
11/7/2018 14:25										42.4334;-76.49504
11/7/2018 14:26			0	0.209	0.012	0	0.013	0.002	0.007	
11/7/2018 14:27			0	0.209	0.013	0	0.036	0.002	0.007	
11/7/2018 14:28			0	0.209	0.014	0	0.024	0.002	0.007	
11/7/2018 14:29			0	0.209	0.014	0	0.014	0.002	0.007	
11/7/2018 14:30	12.6	71.9	0	0.209	0.015	0	0.07	0.002	0.007	
11/7/2018 14:30										42.43343;-76.49504
11/7/2018 14:31			0	0.209	0.016	0	0.029	0.002	0.007	
11/7/2018 14:32			0	0.209	0.017	0	0.026	0.002	0.007	
11/7/2018 14:33			0	0.209	0.017	0	0.026	0.002	0.007	
11/7/2018 14:34			0	0.209	0.019	0	0.026	0.002	0.007	
11/7/2018 14:35	12.6	73.9	0	0.209	0.019	0	0.031	0.002	0.007	
11/7/2018 14:35										42.43341;-76.495
11/7/2018 14:36			0	0.209	0.02	0	0.03	0.002	0.007	
11/7/2018 14:37			0	0.209	0.021	0.001	0.006	0.002	0.008	
11/7/2018 14:38			0	0.209	0.022	0.001	0.026	0.002	0.007	
11/7/2018 14:39			0	0.209	0.023	0.001	0.035	0.002	0.007	
11/7/2018 14:40	12.6	71.9	0	0.209	0.023	0.001	0.024	0.002	0.007	
11/7/2018 14:40										42.43334;-76.49503
11/7/2018 14:41			0	0.209	0.024	0.001	0.033	0.002	0.008	
11/7/2018 14:42			0	0.209	0.025	0.001	0.025	0.002	0.007	
11/7/2018 14:43			0	0.209	0.026	0.001	0.03	0.002	0.007	
11/7/2018 14:44			0	0.209	0.027	0.001	0.035	0.002	0.007	
11/7/2018 14:45	12.6	72.9	0	0.209	0.027	0.001	0.032	0.002	0.007	
11/7/2018 14:45										42.43336;-76.49503
11/7/2018 14:46			0	0.209	0.027	0.001	0.037	0.002	0.007	
11/7/2018 14:47			0	0.209	0.027	0.001	0.026	0.002	0.007	
11/7/2018 14:48			0	0.209	0.028	0.001	0.037	0.002	0.007	
11/7/2018 14:49			0	0.209	0.029	0.001	0.042	0.002	0.007	
11/7/2018 14:50	12.6	76.9	0	0.209	0.029	0.001	0.04	0.002	0.007	
11/7/2018 14:50										42.43335;-76.495
11/7/2018 14:51			0	0.209	0.029	0.001	0.044	0.002	0.007	
11/7/2018 14:52			0	0.209	0.031	0.002	0.046	0.002	0.009	
11/7/2018 14:53			0	0.209	0.032	0.002	0.038	0.002	0.007	
11/7/2018 14:54			0	0.209	0.033	0.002	0.045	0.002	0.007	
11/7/2018 14:55	12.6	74.9	0	0.209	0.034	0.002	0.047	0.002	0.007	
11/7/2018 14:55										42.43332;-76.49506
11/7/2018 14:56			0	0.209	0.034	0.002	0.042	0.002	0.007	
11/7/2018 14:57			0	0.209	0.036	0.002	0.05	0.002	0.007	
11/7/2018 14:58			0	0.209	0.037	0.002	0.046	0.002	0.008	
11/7/2018 14:59			0	0.209	0.038	0.002	0.055	0.002	0.007	
11/7/2018 15:00	12.6	73.9	0	0.209	0.039	0.002	0.041	0.002	0.007	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/7/2018 15:00										42.43326;-76.49509
11/7/2018 15:01			0	0.209	0.041	0.002	0.06	0.002	0.007	
11/7/2018 15:02			0	0.209	0.042	0.002	0.059	0.002	0.007	
11/7/2018 15:03			0	0.209	0.043	0.003	0.055	0.002	0.007	
11/7/2018 15:04			0	0.209	0.045	0.003	0.061	0.002	0.007	
11/7/2018 15:05	12.6	71.9	0	0.209	0.046	0.003	0.048	0.002	0.007	
11/7/2018 15:05										42.43326;-76.49506
11/7/2018 15:06			0	0.209	0.048	0.003	0.058	0.002	0.007	
11/7/2018 15:07			0	0.209	0.048	0.003	0.065	0.002	0.007	
11/7/2018 15:08			0	0.209	0.049	0.003	0.064	0.002	0.007	
11/7/2018 15:09			0	0.209	0.051	0.003	0.066	0.002	0.008	
11/7/2018 15:10	12.6	80	0	0.209	0.053	0.003	0.052	0.002	0.007	
11/7/2018 15:10										42.43325;-76.49506
11/7/2018 15:11			0	0.209	0.054	0.004	0.069	0.002	0.006	
11/7/2018 15:12			0	0.209	0.055	0.004	0.068	0.002	0.007	
11/7/2018 15:13			0	0.209	0.056	0.004	0.06	0.002	0.006	
11/7/2018 15:14			0	0.209	0.057	0.004	0.066	0.002	0.006	
11/7/2018 15:15	12.6	86	0	0.209	0.059	0.004	0.082	0.002	0.007	
11/7/2018 15:15										42.43327;-76.49508
11/7/2018 15:16			0	0.209	0.061	0.004	0.079	0.002	0.006	
11/7/2018 15:17			0	0.209	0.063	0.004	0.079	0.002	0.006	
11/7/2018 15:18			0	0.209	0.065	0.005	0.079	0.002	0.006	
11/7/2018 15:19			0	0.209	0.066	0.005	0.081	0.002	0.006	
11/7/2018 15:20	12.6	82	0	0.209	0.068	0.005	0.086	0.002	0.007	
11/7/2018 15:20										42.43325;-76.49505
11/7/2018 15:21			0	0.209	0.07	0.005	0.079	0.002	0.007	
11/7/2018 15:22			0	0.209	0.072	0.005	0.076	0.002	0.007	
11/7/2018 15:23			0	0.209	0.073	0.005	0.087	0.002	0.007	
11/7/2018 15:24			0	0.209	0.075	0.006	0.084	0.002	0.006	
11/7/2018 15:25	12.6	73.9	0	0.209	0.076	0.006	0.091	0.002	0.006	
11/7/2018 15:25										42.43326;-76.49506
11/7/2018 15:26			0	0.209	0.078	0.006	0.083	0.002	0.006	
11/7/2018 15:27			0	0.209	0.079	0.006	0.085	0.002	0.006	
11/7/2018 15:28			0	0.209	0.08	0.006	0.076	0.002	0.007	
11/7/2018 15:29			0	0.209	0.081	0.007	0.083	0.002	0.007	
11/7/2018 15:30	12.6	80	0	0.209	0.081	0.007	0.075	0.002	0.006	
11/7/2018 15:30										42.43328;-76.49506
11/7/2018 15:31			0	0.209	0.081	0.007	0.077	0.002	0.007	
11/7/2018 15:32			0	0.209	0.082	0.007	0.084	0.002	0.006	
11/7/2018 15:33			0	0.209	0.082	0.007	0.081	0.002	0.006	
11/7/2018 15:34			0	0.209	0.083	0.007	0.092	0.003	0.006	
11/7/2018 15:35	12.6	82	0	0.209	0.083	0.008	0.091	0.003	0.007	
11/7/2018 15:35										42.4333;-76.49512
11/7/2018 15:36			0	0.209	0.084	0.008	0.093	0.003	0.006	
11/7/2018 15:37			0	0.209	0.085	0.008	0.105	0.003	0.007	
11/7/2018 15:38			0	0.209	0.086	0.008	0.09	0.003	0.006	
11/7/2018 15:39			0	0.209	0.086	0.008	0.081	0.003	0.006	
11/7/2018 15:40	12.6	81	0	0.209	0.087	0.009	0.087	0.003	0.006	
11/7/2018 15:40										42.43327;-76.49504
11/7/2018 15:41			0	0.209	0.088	0.009	0.092	0.003	0.006	
11/7/2018 15:42			0	0.209	0.089	0.009	0.102	0.003	0.006	
11/7/2018 15:43			0	0.209	0.09	0.009	0.105	0.003	0.006	
11/7/2018 15:44			0	0.209	0.091	0.009	0.104	0.003	0.006	
11/7/2018 15:45	12.6	85	0	0.209	0.092	0.01	0.101	0.003	0.006	
11/7/2018 15:45										42.4333;-76.49503
11/7/2018 15:46			0	0.209	0.094	0.01	0.101	0.003	0.006	
11/7/2018 15:47			0	0.209	0.095	0.01	0.103	0.003	0.006	
11/7/2018 15:48			0	0.209	0.097	0.01	0.11	0.003	0.006	
11/7/2018 15:49			0	0.209	0.099	0.01	0.098	0.003	0.007	
11/7/2018 15:50	12.6	76.9	0	0.209	0.099	0.011	0.099	0.003	0.006	
11/7/2018 15:50										42.43328;-76.49504
11/7/2018 15:51			0	0.209	0.1	0.011	0.1	0.003	0.006	
11/7/2018 15:52			0	0.209	0.1	0.011	0.092	0.003	0.006	
11/7/2018 15:53			0	0.209	0.1	0.011	0.099	0.003	0.006	
11/7/2018 15:54			0	0.209	0.1	0.011	0.095	0.003	0.006	
11/7/2018 15:55	12.6	86	0	0.209	0.1	0.012	0.1	0.003	0.006	
11/7/2018 15:55										42.4333;-76.49504
11/7/2018 15:56			0	0.209	0.101	0.012	0.096	0.003	0.006	
11/7/2018 15:57			0	0.209	0.101	0.012	0.093	0.003	0.006	
11/7/2018 15:58			0	0.209	0.1	0.012	0.101	0.003	0.006	
11/7/2018 15:59			0	0.209	0.1	0.013	0.103	0.003	0.006	
11/7/2018 16:00	12.6	80	0	0.209	0.1	0.013	0.105	0.003	0.006	
11/7/2018 16:00										42.43324;-76.495
11/7/2018 16:01			0	0.209	0.101	0.013	0.105	0.003	0.006	
11/7/2018 16:02			0	0.209	0.1	0.013	0.098	0.003	0.006	
11/7/2018 16:03			0	0.209	0.1	0.013	0.09	0.003	0.006	
11/7/2018 16:04			0	0.209	0.098	0.014	0.093	0.003	0.006	
11/7/2018 16:05	12.5	82	0	0.209	0.098	0.014	0.095	0.003	0.006	
11/7/2018 16:05										42.43329;-76.49505
11/7/2018 16:06			0	0.209	0.098	0.014	0.098	0.003	0.006	
11/7/2018 16:07			0	0.209	0.097	0.014	0.098	0.003	0.006	
11/7/2018 16:08			0	0.209	0.097	0.014	0.092	0.003	0.006	
11/7/2018 16:09			0	0.209	0.097	0.015	0.1	0.003	0.006	
11/7/2018 16:10	12.5	74.9	0	0.209	0.097	0.015	0.1	0.003	0.006	
11/7/2018 16:10										42.43331;-76.49505
11/7/2018 16:11			0	0.209	0.097	0.015	0.094	0.003	0.006	
11/7/2018 16:12			0	0.209	0.097	0.015	0.101	0.003	0.006	
11/7/2018 16:13			0	0.209	0.097	0.015	0.092	0.003	0.006	
11/7/2018 16:14			0	0.209	0.096	0.016	0.091	0.003	0.006	
11/7/2018 16:15	12.5	72.9	0	0.209	0.096	0.016	0.098	0.003	0.006	
11/7/2018 16:15										42.43328;-76.49507
11/7/2018 16:16			0	0.209	0.095	0.016	0.088	0.003	0.006	
11/7/2018 16:17			0	0.209	0.094	0.016	0.088	0.003	0.006	
11/7/2018 16:18			0	0.209	0.093	0.016	0.091	0.003	0.006	
11/7/2018 16:19			0	0.209	0.093	0.016	0.09	0.003	0.006	
11/7/2018 16:20	12.5	85	0	0.209	0.093	0.017	0.094	0.003	0.006	
11/7/2018 16:20										42.43331;-76.49506
11/7/2018 16:21			0	0.209	0.093	0.017	0.086	0.003	0.006	
11/7/2018 16:22			0	0.209	0.093	0.017	0.094	0.003	0.006	
11/7/2018 16:23			0	0.209	0.092	0.017	0.09	0.003	0.006	
11/7/2018 16:24			0	0.209	0.092	0.017	0.084	0.003	0.006	
11/7/2018 16:25	12.5	77.9	0	0.209	0.091	0.018	0.094	0.003	0.006	
11/7/2018 16:25										42.4333;-76.49508
11/7/2018 16:26			0	0.209	0.091	0.018	0.088	0.003	0.006	
11/7/2018 16:27			0	0.209	0.09	0.018	0.086	0.003	0.006	
11/7/2018 16:28			0	0.209	0.09	0.018	0.091	0.003	0.006	
11/7/2018 16:29			0	0.209	0.09	0.018	0.083	0.003	0.006	
11/7/2018 16:30	12.5	77.9	0	0.209	0.089	0.019	0.093	0.003	0.006	
11/7/2018 16:30										42.43332;-76.49523

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/7/2018 16:31			0	0.209	0.09	0.019	0.088	0.003	0.006	
11/7/2018 16:32			0	0.209	0.09	0.019	0.087	0.003	0.006	
11/7/2018 16:33			0	0.209	0.09	0.019	0.086	0.003	0.006	
11/7/2018 16:34			0	0.209	0.089	0.019	0.086	0.003	0.006	
11/7/2018 16:35	12.5	82	0	0.209	0.089	0.019	0.085	0.003	0.006	
11/7/2018 16:35										42.43336;-76.49513
11/7/2018 16:36			0	0.209	0.088	0.02	0.081	0.003	0.006	
11/7/2018 16:37			0	0.209	0.088	0.02	0.091	0.003	0.006	
11/7/2018 16:38			0	0.209	0.088	0.02	0.091	0.003	0.006	
11/7/2018 16:39			0	0.209	0.088	0.02	0.082	0.003	0.006	
11/7/2018 16:40	12.5	77.9	0	0.209	0.088	0.02	0.086	0.003	0.006	
11/7/2018 16:40										42.43335;-76.4951
11/7/2018 16:41			0	0.209	0.088	0.021	0.1	0.003	0.009	
11/7/2018 16:42			0	0.209	0.088	0.021	0.094	0.003	0.01	
11/7/2018 16:43			0	0.209	0.088	0.021	0.095	0.003	0.014	
11/7/2018 16:44			0	0.209	0.088	0.021	0.093	0.003	0.006	
11/7/2018 16:45	12.5	82	0	0.209	0.088	0.021	0.09	0.003	0.008	
11/7/2018 16:45										42.4333;-76.49503
11/7/2018 16:46			0	0.209	0.088	0.022	0.09	0.003	0.007	
11/7/2018 16:47			0	0.209	0.088	0.022	0.092	0.003	0.007	
11/7/2018 16:48			0	0.209	0.089	0.022	0.092	0.003	0.007	
11/7/2018 16:49			0	0.209	0.088	0.022	0.084	0.003	0.005	
11/7/2018 16:50	12.5	81	0	0.209	0.088	0.022	0.092	0.003	0.005	
11/7/2018 16:50										42.43333;-76.49507
11/7/2018 16:51			0	0.209	0.088	0.022	0.08	0.004	0.006	
11/7/2018 16:52			0	0.209	0.088	0.023	0.077	0.004	0.006	
11/7/2018 16:53			0	0.209	0.088	0.023	0.082	0.004	0.005	
11/7/2018 16:54			0	0.209	0.088	0.023	0.09	0.004	0.005	
11/7/2018 16:55	12.5	70.9	0	0.209	0.088	0.023	0.081	0.004	0.005	
11/7/2018 16:55										42.43336;-76.49503
11/7/2018 16:56			0	0.209	0.088	0.023	0.092	0.004	0.005	
11/7/2018 16:57			0	0.209	0.087	0.023	0.09	0.004	0.005	
11/7/2018 16:58			0	0.209	0.086	0.024	0.082	0.004	0.005	
11/7/2018 16:59			0	0.209	0.086	0.024	0.08	0.004	0.005	
11/7/2018 17:00	12.5	79	0	0.209	0.085	0.024	0.087	0.004	0.005	
11/7/2018 17:00										42.43348;-76.49496
11/7/2018 17:01			0	0.209	0.085	0.024	0.085	0.004	0.005	
11/7/2018 17:02			0	0.209	0.085	0.024	0.082	0.004	0.005	
11/7/2018 17:03			0	0.209	0.084	0.025	0.086	0.004	0.005	
11/7/2018 17:04			0	0.209	0.084	0.025	0.082	0.004	0.006	
11/7/2018 17:05	12.5	72.9	0	0.209	0.085	0.025	0.086	0.004	0.006	
11/7/2018 17:05										42.4334;-76.49506
11/7/2018 17:06			0	0.209	0.085	0.025	0.078	0.004	0.006	
11/7/2018 17:07			0	0.209	0.084	0.025	0.087	0.004	0.006	
11/7/2018 17:08			0	0.209	0.084	0.025	0.086	0.004	0.006	
11/7/2018 17:09			0	0.209	0.084	0.026	0.074	0.004	0.005	
11/7/2018 17:10	12.5	75.9	0	0.209	0.084	0.026	0.084	0.004	0.005	
11/7/2018 17:10										42.43336;-76.49505
11/7/2018 17:11			0	0.209	0.084	0.026	0.09	0.004	0.006	
11/7/2018 17:12			0	0.209	0.084	0.026	0.075	0.004	0.006	
11/7/2018 17:13			0	0.209	0.083	0.026	0.078	0.004	0.006	
11/7/2018 17:14			0	0.209	0.083	0.026	0.083	0.004	0.006	
11/7/2018 17:15	12.5	72.9	0	0.209	0.083	0.027	0.07	0.004	0.006	
11/7/2018 17:15										42.43337;-76.49503
11/7/2018 17:16			0	0.209	0.082	0.027	0.089	0.004	0.006	
11/7/2018 17:17			0	0.209	0.082	0.027	0.089	0.004	0.006	
11/7/2018 17:18			0	0.209	0.082	0.027	0.08	0.004	0.005	
11/7/2018 17:19			0	0.209	0.081	0.027	0.089	0.004	0.005	
11/7/2018 17:20	12.5	72.9	0	0.209	0.081	0.027	0.105	0.004	0.006	
11/7/2018 17:20										42.43329;-76.49506
11/7/2018 17:21			0	0.209	0.082	0.028	0.08	0.004	0.01	
11/7/2018 17:22			0	0.209	0.082	0.028	0.078	0.004	0.008	
11/7/2018 17:23			0	0.209	0.081	0.028	0.081	0.004	0.007	
11/7/2018 17:24			0	0.209	0.081	0.028	0.081	0.004	0.008	
11/7/2018 17:25	12.5	72.9	0	0.209	0.08	0.028	0.082	0.004	0.005	
11/7/2018 17:25										42.43331;-76.49505
11/7/2018 17:26			0	0.209	0.08	0.028	0.086	0.004	0.005	
11/7/2018 17:27			0	0.209	0.081	0.029	0.075	0.004	0.006	
11/7/2018 17:28			0	0.209	0.08	0.029	0.085	0.004	0.006	
11/7/2018 17:29			0	0.209	0.081	0.029	0.083	0.004	0.005	
11/7/2018 17:30	12.5	71.9	0	0.209	0.081	0.029	0.089	0.004	0.005	
11/7/2018 17:30										42.43333;-76.49504
11/7/2018 17:31			0	0.209	0.082	0.029	0.078	0.004	0.005	
11/7/2018 17:32			0	0.209	0.082	0.03	0.086	0.004	0.005	
11/7/2018 17:33			0	0.209	0.082	0.03	0.091	0.004	0.005	
11/7/2018 17:34			0	0.209	0.082	0.03	0.089	0.004	0.005	
11/7/2018 17:35	12.5	76.9	0	0.209	0.082	0.03	0.079	0.004	0.005	
11/7/2018 17:35										42.43331;-76.49503
11/7/2018 17:36			0	0.209	0.081	0.03	0.083	0.004	0.005	
11/7/2018 17:37			0	0.209	0.082	0.03	0.084	0.004	0.005	
11/7/2018 17:38			0	0.209	0.082	0.031	0.096	0.004	0.005	
11/7/2018 17:39			0	0.209	0.083	0.031	0.095	0.004	0.005	
11/7/2018 17:40	12.7	70.9							0.007	
11/7/2018 17:40										42.4332;-76.49511
11/7/2018 17:45	12.7	79								
11/7/2018 17:45										42.42846;-76.50168
11/7/2018 17:50	12.7	73.9								42.42867;-76.5017
11/7/2018 17:53			0	0	0	0	0			
11/7/2018 17:54			0	0	0	0	0	0	0.005	
11/7/2018 17:55	12.5	72.9	0	0	0	0	0	0	0.005	42.42871;-76.50172
11/7/2018 17:56			0	0	0	0	0	0	0.005	
11/7/2018 17:57			0	0	0	0	0	0	0.005	
11/7/2018 17:58			0	0	0	0	0	0	0.005	
11/7/2018 17:59			0	0	0	0	0	0	0.005	
11/7/2018 18:00	12.5	70.9	0	0	0	0	0	0	0.005	42.42871;-76.50165
11/7/2018 18:01			0	0	0	0	0	0	0.006	
11/7/2018 18:02			0	0	0	0	0	0	0.005	
11/7/2018 18:03			0	0	0	0	0	0	0.006	
11/7/2018 18:04			0	0	0	0	0	0	0.006	
11/7/2018 18:05	12.5	71.9	0	0	0	0	0	0	0.006	42.4287;-76.50164
11/7/2018 18:06			0	0	0	0	0	0	0.006	
11/7/2018 18:07			0	0	0	0	0	0	0.006	
11/7/2018 18:08			0	0	0	0	0	0	0.006	
11/7/2018 18:09			0	0	0	0	0	0	0.005	
11/7/2018 18:10	12.5	73.9	0	0	0	0	0	0	0.005	42.42871;-76.50161
11/7/2018 18:11			0	0	0	0	0	0	0.005	
11/7/2018 18:12			0	0	0	0	0	0	0.005	
11/7/2018 18:13			0	0	0	0	0	0	0.005	
11/7/2018 18:14			0	0	0	0	0	0	0.005	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/7/2018 18:15	12.5	77.9	0	0	0	0	0	0	0.005	42.4287;-76.50169
11/7/2018 18:16			0	0	0	0	0	0	0.005	
11/7/2018 18:17			0	0	0	0	0	0	0.005	
11/7/2018 18:18			0	0	0	0	0	0	0.005	
11/7/2018 18:19			0	0	0	0	0	0	0.005	
11/7/2018 18:20	12.5	79	0	0	0	0	0	0	0.005	42.4287;-76.50157
11/7/2018 18:21			0	0	0	0	0	0	0.005	
11/7/2018 18:22			0	0	0	0	0	0	0.005	
11/7/2018 18:23			0	0	0	0	0	0	0.005	
11/7/2018 18:24			0	0	0	0	0	0	0.006	
11/7/2018 18:25	12.5	72.9	0	0	0	0	0	0	0.005	42.42875;-76.50164
11/7/2018 18:26			0	0	0	0	0	0	0.005	
11/7/2018 18:27			0	0	0	0	0	0	0.005	
11/7/2018 18:28			0	0	0	0	0	0	0.005	
11/7/2018 18:29			0	0	0	0	0	0	0.005	
11/7/2018 18:30	12.5	71.9	0	0	0	0	0	0	0.005	42.42875;-76.50168
11/7/2018 18:31			0	0	0	0	0	0	0.005	
11/7/2018 18:32			0	0	0	0	0	0	0.005	
11/7/2018 18:33			0	0	0	0	0	0	0.005	
11/7/2018 18:34			0	0	0	0	0	0	0.005	
11/7/2018 18:35	12.4	75.9	0	0	0	0	0	0	0.005	42.42869;-76.50164
11/7/2018 18:36			0	0	0	0	0	0	0.005	
11/7/2018 18:37			0	0	0	0	0	0	0.005	
11/7/2018 18:38			0	0	0	0	0	0	0.005	
11/7/2018 18:39			0	0	0	0	0	0	0.005	
11/7/2018 18:40	12.4	80	0	0	0	0	0	0.001	0.005	42.42873;-76.50165
11/7/2018 18:41			0	0	0	0	0	0.001	0.005	
11/7/2018 18:42			0	0	0	0	0	0.001	0.005	
11/7/2018 18:43			0	0	0	0	0	0.001	0.005	
11/7/2018 18:44			0	0	0	0	0	0.001	0.005	
11/7/2018 18:45	12.4	74.9	0	0	0	0	0	0.001	0.005	42.42874;-76.50163
11/7/2018 18:46			0	0	0	0	0	0.001	0.005	
11/7/2018 18:47			0	0	0	0	0	0.001	0.005	
11/7/2018 18:48			0	0	0	0	0	0.001	0.005	
11/7/2018 18:49			0	0	0	0	0	0.001	0.005	
11/7/2018 18:50	12.4	81	0	0	0	0	0	0.001	0.005	42.42873;-76.50163
11/7/2018 18:51			0	0	0	0	0	0.001	0.005	
11/7/2018 18:52			0	0	0	0	0	0.001	0.005	
11/7/2018 18:53			0	0	0	0	0	0.001	0.005	
11/7/2018 18:54			0	0	0	0	0	0.001	0.005	
11/7/2018 18:55	12.4	82	0	0	0	0	0	0.001	0.005	42.42874;-76.50164
11/7/2018 18:56			0	0	0	0	0	0.001	0.005	
11/7/2018 18:57			0	0	0	0	0	0.001	0.005	
11/7/2018 18:58			0	0	0	0	0	0.001	0.005	
11/7/2018 18:59			0	0.002	0	0	0	0.001	0.005	
11/7/2018 19:00	12.4	82	0	0.007	0	0	0.001	0.001	0.005	42.42874;-76.50167
11/7/2018 19:01			0	0.007	0	0	0.002	0.001	0.005	
11/7/2018 19:02			0	0.009	0	0	0.002	0.001	0.005	
11/7/2018 19:03			0	0.009	0	0	0.008	0.001	0.005	
11/7/2018 19:04			0	0.01	0	0	0.01	0.001	0.005	
11/7/2018 19:05	12.4	87	0	0.01	0	0	0.005	0.001	0.005	42.42878;-76.50166
11/7/2018 19:06			0	0.01	0	0	0.007	0.001	0.005	
11/7/2018 19:07			0	0.01	0.001	0	0	0.001	0.005	
11/7/2018 19:08			0	0.01	0.001	0	0.006	0.001	0.006	
11/7/2018 19:09			0	0.012	0.001	0	0.005	0.001	0.005	
11/7/2018 19:10	12.4	75.9	0	0.012	0.001	0	0.01	0.001	0.005	42.42871;-76.50167
11/7/2018 19:11			0	0.012	0.002	0	0.001	0.001	0.005	
11/7/2018 19:12			0	0.012	0.002	0	0.009	0.001	0.005	
11/7/2018 19:13			0	0.014	0.002	0	0.008	0.001	0.005	
11/7/2018 19:14			0	0.014	0.003	0	0.01	0.001	0.005	
11/7/2018 19:15	12.4	73.9	0	0.019	0.003	0	0.007	0.001	0.005	42.42871;-76.50169
11/7/2018 19:16			0	0.022	0.004	0	0.014	0.001	0.005	
11/7/2018 19:17			0	0.022	0.005	0	0.02	0.001	0.005	
11/7/2018 19:18			0	0.022	0.006	0	0.017	0.001	0.005	
11/7/2018 19:19			0	0.022	0.007	0	0.013	0.001	0.005	
11/7/2018 19:20	12.4	77.9	0	0.025	0.008	0	0.016	0.001	0.005	42.4287;-76.50169
11/7/2018 19:21			0	0.025	0.008	0	0.015	0.001	0.005	
11/7/2018 19:22			0	0.025	0.009	0	0.01	0.001	0.005	
11/7/2018 19:23			0	0.025	0.01	0	0.009	0.001	0.005	
11/7/2018 19:24			0	0.025	0.01	0	0.017	0.001	0.005	
11/7/2018 19:25	12.4	73.9	0	0.029	0.011	0	0.016	0.001	0.005	42.42874;-76.50172
11/7/2018 19:26			0	0.029	0.012	0	0.014	0.001	0.005	
11/7/2018 19:27			0	0.029	0.013	0	0.019	0.001	0.005	
11/7/2018 19:28			0	0.029	0.014	0	0.024	0.001	0.005	
11/7/2018 19:29			0	0.029	0.015	0	0.023	0.001	0.004	
11/7/2018 19:30	12.4	73.9	0	0.029	0.016	0	0.021	0.001	0.004	42.42874;-76.50162
11/7/2018 19:31			0	0.029	0.017	0	0.021	0.001	0.004	
11/7/2018 19:32			0	0.029	0.017	0	0.028	0.001	0.004	
11/7/2018 19:33			0	0.029	0.017	0	0.025	0.001	0.004	
11/7/2018 19:34			0	0.033	0.017	0	0.03	0.001	0.005	
11/7/2018 19:35	12.4	79	0	0.033	0.018	0	0.022	0.001	0.005	42.42873;-76.50167
11/7/2018 19:36			0	0.033	0.019	0	0.021	0.001	0.005	
11/7/2018 19:37			0	0.033	0.019	0	0.029	0.001	0.005	
11/7/2018 19:38			0	0.033	0.02	0.001	0.023	0.001	0.005	
11/7/2018 19:39			0	0.033	0.021	0.001	0.023	0.001	0.005	
11/7/2018 19:40	12.4	71.9	0	0.033	0.022	0.001	0.026	0.001	0.005	42.42871;-76.50167
11/7/2018 19:41			0	0.035	0.022	0.001	0.03	0.001	0.005	
11/7/2018 19:42			0	0.035	0.022	0.001	0.021	0.001	0.005	
11/7/2018 19:43			0	0.035	0.023	0.001	0.026	0.001	0.004	
11/7/2018 19:44			0	0.035	0.023	0.001	0.028	0.001	0.005	
11/7/2018 19:45	12.4	74.9	0	0.035	0.023	0.001	0.03	0.001	0.005	42.42873;-76.50166
11/7/2018 19:46			0	0.035	0.024	0.001	0.031	0.001	0.005	
11/7/2018 19:47			0	0.037	0.025	0.001	0.034	0.001	0.005	
11/7/2018 19:48			0	0.037	0.026	0.001	0.031	0.001	0.005	
11/7/2018 19:49			0	0.037	0.026	0.001	0.036	0.001	0.005	
11/7/2018 19:50	12.4	75.9	0	0.045	0.027	0.001	0.045	0.001	0.005	42.42876;-76.5017
11/7/2018 19:51			0	0.045	0.028	0.001	0.03	0.001	0.005	
11/7/2018 19:52			0	0.045	0.028	0.001	0.03	0.001	0.005	
11/7/2018 19:53			0	0.045	0.028	0.001	0.035	0.001	0.005	
11/7/2018 19:54			0	0.045	0.029	0.001	0.032	0.001	0.004	
11/7/2018 19:55	12.3	71.9	0	0.045	0.03	0.002	0.038	0.001	0.005	42.42874;-76.50169
11/7/2018 19:56			0	0.045	0.03	0.002	0.035	0.001	0.005	
11/7/2018 19:57			0	0.048	0.031	0.002	0.042	0.001	0.005	
11/7/2018 19:58			0	0.048	0.032	0.002	0.035	0.001	0.005	
11/7/2018 19:59			0	0.048	0.033	0.002	0.04	0.001	0.004	
11/7/2018 20:00	12.3	72.9	0	0.048	0.033	0.002	0.043	0.001	0.005	42.42874;-76.50169
11/7/2018 20:01			0	0.051	0.034	0.002	0.044	0.001	0.005	
11/7/2018 20:02			0	0.051	0.035	0.002	0.045	0.001	0.005	
11/7/2018 20:03			0	0.051	0.036	0.002	0.04	0.001	0.005	

Community Air Monitoring Program - Downwind Station
October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/7/2018 20:04			0	0.051	0.036	0.002	0.041	0.001	0.004	
11/7/2018 20:05	12.3	73.9	0	0.051	0.036	0.002	0.037	0.001	0.005	42.42873;-76.50168
11/7/2018 20:06			0	0.051	0.037	0.002	0.038	0.001	0.005	
11/7/2018 20:07			0	0.051	0.037	0.003	0.035	0.001	0.005	
11/7/2018 20:08			0	0.051	0.037	0.003	0.035	0.001	0.005	
11/7/2018 20:09			0	0.051	0.037	0.003	0.03	0.001	0.005	
11/7/2018 20:10	12.3	72.9	0	0.051	0.037	0.003	0.034	0.001	0.005	42.42869;-76.50163
11/7/2018 20:11			0	0.051	0.037	0.003	0.044	0.001	0.005	
11/7/2018 20:12			0	0.051	0.037	0.003	0.036	0.001	0.005	
11/7/2018 20:13			0	0.051	0.037	0.003	0.034	0.001	0.004	
11/7/2018 20:14			0	0.051	0.037	0.003	0.038	0.001	0.004	
11/7/2018 20:15	12.3	77.9	0	0.051	0.037	0.003	0.039	0.001	0.005	42.42874;-76.50165
11/7/2018 20:16			0	0.051	0.037	0.003	0.042	0.001	0.005	
11/7/2018 20:17			0	0.051	0.036	0.003	0.038	0.001	0.005	
11/7/2018 20:18			0	0.051	0.036	0.003	0.036	0.001	0.005	
11/7/2018 20:19			0	0.051	0.036	0.003	0.04	0.002	0.005	
11/7/2018 20:20	12.3	72.9	0	0.051	0.036	0.004	0.038	0.002	0.005	42.42873;-76.50162
11/7/2018 20:21			0	0.051	0.036	0.004	0.034	0.002	0.005	
11/7/2018 20:22			0	0.051	0.036	0.004	0.044	0.002	0.005	
11/7/2018 20:23			0	0.051	0.037	0.004	0.039	0.002	0.005	
11/7/2018 20:24			0	0.051	0.037	0.004	0.042	0.002	0.005	
11/7/2018 20:25	12.3	73.9	0	0.051	0.038	0.004	0.045	0.002	0.005	42.42867;-76.50166
11/7/2018 20:26			0	0.056	0.039	0.004	0.051	0.002	0.005	
11/7/2018 20:27			0	0.056	0.04	0.004	0.056	0.002	0.005	
11/7/2018 20:28			0	0.06	0.041	0.004	0.05	0.002	0.005	
11/7/2018 20:29			0	0.06	0.042	0.004	0.052	0.002	0.005	
11/7/2018 20:30	12.3	80	0	0.06	0.042	0.004	0.053	0.002	0.005	42.42869;-76.5017
11/7/2018 20:31			0	0.06	0.043	0.005	0.048	0.002	0.005	
11/7/2018 20:32			0	0.06	0.044	0.005	0.058	0.002	0.005	
11/7/2018 20:33			0	0.061	0.045	0.005	0.054	0.002	0.005	
11/7/2018 20:34			0	0.061	0.046	0.005	0.058	0.002	0.005	
11/7/2018 20:35	12.3	72.9	0	0.061	0.047	0.005	0.051	0.002	0.005	42.42874;-76.50159
11/7/2018 20:36			0	0.061	0.048	0.005	0.048	0.002	0.005	
11/7/2018 20:37			0	0.061	0.049	0.005	0.052	0.002	0.005	
11/7/2018 20:38			0	0.061	0.049	0.005	0.053	0.002	0.005	
11/7/2018 20:39			0	0.061	0.05	0.005	0.057	0.002	0.005	
11/7/2018 20:40	12.3	73.9	0	0.063	0.05	0.006	0.057	0.002	0.005	42.42865;-76.50167
11/7/2018 20:41			0	0.108	0.051	0.006	0.071	0.002	0.005	
11/7/2018 20:42			0	0.108	0.053	0.006	0.053	0.002	0.005	
11/7/2018 20:43			0	0.108	0.054	0.006	0.055	0.002	0.005	
11/7/2018 20:44			0	0.108	0.054	0.006	0.053	0.002	0.005	
11/7/2018 20:45	12.3	73.9	0	0.108	0.054	0.006	0.049	0.002	0.005	42.42865;-76.50169
11/7/2018 20:46			0	0.108	0.054	0.006	0.046	0.002	0.005	
11/7/2018 20:47			0	0.108	0.054	0.006	0.063	0.002	0.005	
11/7/2018 20:48			0	0.108	0.055	0.006	0.06	0.002	0.005	
11/7/2018 20:49			0	0.108	0.056	0.007	0.055	0.002	0.005	
11/7/2018 20:50	12.3	72.9	0	0.108	0.056	0.007	0.054	0.002	0.005	42.42866;-76.50167
11/7/2018 20:51			0	0.108	0.056	0.007	0.055	0.002	0.005	
11/7/2018 20:52			0	0.108	0.056	0.007	0.052	0.002	0.005	
11/7/2018 20:53			0	0.108	0.056	0.007	0.047	0.002	0.005	
11/7/2018 20:54			0	0.121	0.056	0.007	0.057	0.002	0.005	
11/7/2018 20:55	12.3	74.9	0	0.121	0.057	0.007	0.053	0.002	0.005	42.42869;-76.50175
11/7/2018 20:56			0	0.121	0.057	0.007	0.051	0.002	0.005	
11/7/2018 20:57			0	0.121	0.054	0.008	0.042	0.002	0.005	
11/7/2018 20:58			0	0.121	0.054	0.008	0.05	0.002	0.005	
11/7/2018 20:59			0	0.121	0.053	0.008	0.051	0.002	0.006	
11/7/2018 21:00	12.3	74.9	0	0.121	0.053	0.008	0.048	0.002	0.005	42.42866;-76.50172
11/7/2018 21:01			0	0.121	0.053	0.008	0.048	0.002	0.005	
11/7/2018 21:02			0	0.121	0.052	0.008	0.047	0.002	0.005	
11/7/2018 21:03			0	0.121	0.052	0.008	0.049	0.002	0.005	
11/7/2018 21:04			0	0.121	0.051	0.008	0.046	0.002	0.005	
11/7/2018 21:05	12.2	76.9	0	0.121	0.05	0.008	0.047	0.002	0.005	42.42868;-76.50166
11/7/2018 21:06			0	0.121	0.05	0.008	0.037	0.002	0.005	
11/7/2018 21:07			0	0.121	0.049	0.009	0.05	0.002	0.005	
11/7/2018 21:08			0	0.121	0.049	0.009	0.043	0.002	0.005	
11/7/2018 21:09			0	0.121	0.048	0.009	0.04	0.002	0.005	
11/7/2018 21:10	12.2	77.9	0	0.121	0.047	0.009	0.042	0.002	0.005	42.42872;-76.50163
11/7/2018 21:11			0	0.121	0.046	0.009	0.039	0.002	0.005	
11/7/2018 21:12			0	0.121	0.046	0.009	0.047	0.002	0.005	
11/7/2018 21:13			0	0.121	0.046	0.009	0.046	0.002	0.005	
11/7/2018 21:14			0	0.153	0.046	0.009	0.153	0.002	0.005	
11/7/2018 21:15	12.2	73.9	0	0.153	0.047	0.009	0.071	0.002	0.006	42.4287;-76.50169
11/7/2018 21:16			0	0.153	0.049	0.009	0.054	0.002	0.006	
11/7/2018 21:17			0	0.153	0.049	0.01	0.049	0.002	0.005	
11/7/2018 21:18			0	0.153	0.049	0.01	0.046	0.002	0.005	
11/7/2018 21:19			0	0.153	0.049	0.01	0.05	0.002	0.005	
11/7/2018 21:20	12.2	72.9	0	0.153	0.049	0.01	0.044	0.002	0.005	42.42865;-76.50167
11/7/2018 21:21			0	0.153	0.048	0.01	0.044	0.002	0.005	
11/7/2018 21:22			0	0.153	0.049	0.01	0.046	0.002	0.005	
11/7/2018 21:23			0	0.153	0.049	0.01	0.042	0.002	0.005	
11/7/2018 21:24			0	0.153	0.049	0.01	0.051	0.002	0.005	
11/7/2018 21:25	12.2	76.9	0	0.153	0.049	0.01	0.047	0.002	0.005	42.42866;-76.50169
11/7/2018 21:26			0	0.153	0.049	0.01	0.045	0.002	0.006	
11/7/2018 21:27			0	0.153	0.05	0.011	0.047	0.002	0.006	
11/7/2018 21:28			0	0.153	0.05	0.011	0.045	0.002	0.006	
11/7/2018 21:29			0	0.153	0.05	0.011	0.051	0.002	0.006	
11/7/2018 21:30	12.2	73.9	0	0.153	0.048	0.011	0.05	0.002	0.006	42.4286;-76.50175
11/7/2018 21:31			0	0.153	0.046	0.011	0.048	0.002	0.006	
11/7/2018 21:32			0	0.153	0.046	0.011	0.04	0.002	0.006	
11/7/2018 21:33			0	0.153	0.046	0.011	0.046	0.002	0.006	
11/7/2018 21:34			0	0.153	0.046	0.011	0.048	0.002	0.006	
11/7/2018 21:35	12.2	79	0	0.153	0.046	0.011	0.048	0.002	0.012	42.42868;-76.50168
11/7/2018 21:36			0	0.153	0.046	0.011	0.052	0.002	0.007	
11/7/2018 21:37			0	0.153	0.046	0.011	0.045	0.002	0.007	
11/7/2018 21:38			0	0.153	0.046	0.012	0.047	0.002	0.005	
11/7/2018 21:39			0	0.153	0.046	0.012	0.046	0.002	0.006	
11/7/2018 21:40	12.2	73.9	0	0.153	0.046	0.012	0.045	0.002	0.005	42.42869;-76.50169
11/7/2018 21:41			0	0.153	0.046	0.012	0.05	0.002	0.006	
11/7/2018 21:42			0	0.153	0.046	0.012	0.048	0.002	0.006	
11/7/2018 21:43			0	0.153	0.046	0.012	0.053	0.002	0.006	
11/7/2018 21:44			0	0.153	0.047	0.012	0.046	0.002	0.005	
11/7/2018 21:45	12.2	73.9	0	0.153	0.047	0.012	0.049	0.002	0.005	42.42869;-76.50168
11/7/2018 21:46			0	0.153	0.047	0.012	0.049	0.002	0.005	
11/7/2018 21:47			0	0.153	0.047	0.012	0.049	0.002	0.005	
11/7/2018 21:48			0	0.153	0.047	0.013	0.047	0.003	0.005	
11/7/2018 21:49			0	0.153	0.047	0.013	0.048	0.003	0.005	
11/7/2018 21:50	12.2	79	0	0.153	0.048	0.013	0.049	0.003	0.006	42.42867;-76.50166
11/7/2018 21:51			0	0.153	0.047	0.013	0.047	0.003	0.006	
11/7/2018 21:52			0	0.153	0.047	0.013	0.049	0.003	0.006	

Community Air Monitoring Program - Downwind Station
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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/7/2018 21:53			0	0.153	0.048	0.013	0.047	0.003	0.006	
11/7/2018 21:54			0	0.153	0.048	0.013	0.043	0.003	0.006	
11/7/2018 21:55	12.2	76.9	0	0.153	0.048	0.013	0.045	0.003	0.006	42.4287;-76.50176
11/7/2018 21:56			0	0.153	0.048	0.013	0.044	0.003	0.006	
11/7/2018 21:57			0	0.153	0.047	0.013	0.039	0.003	0.006	
11/7/2018 21:58			0	0.153	0.047	0.014	0.044	0.003	0.006	
11/7/2018 21:59			0	0.153	0.046	0.014	0.041	0.003	0.006	
11/7/2018 22:00	12.2	83	0	0.153	0.046	0.014	0.04	0.003	0.006	42.42869;-76.50172
11/7/2018 22:01			0	0.153	0.045	0.014	0.045	0.003	0.006	
11/7/2018 22:02			0	0.153	0.045	0.014	0.042	0.003	0.005	
11/7/2018 22:03			0	0.153	0.044	0.014	0.044	0.003	0.005	
11/7/2018 22:04			0	0.153	0.044	0.014	0.04	0.003	0.006	
11/7/2018 22:05	12.2	72.9	0	0.153	0.043	0.014	0.043	0.003	0.006	42.42874;-76.50175
11/7/2018 22:06			0	0.153	0.043	0.014	0.041	0.003	0.006	
11/7/2018 22:07			0	0.153	0.043	0.014	0.036	0.003	0.006	
11/7/2018 22:08			0	0.153	0.042	0.014	0.039	0.003	0.005	
11/8/2018 13:59	12.9	119.4								
11/8/2018 13:59										42.4309509;-76.5038101
11/8/2018 14:00	12.9	100.2	0	0	0	0	0			
11/8/2018 14:01			0	0	0	0	0			
11/8/2018 14:02			0	0	0	0	0			
11/8/2018 14:03			0	0	0	0	0	0	0.013	
11/8/2018 14:04			0	0	0	0	0	0	0.015	
11/8/2018 14:05	12.7	70.9	0	0	0	0	0	0	0.014	
11/8/2018 14:05										42.42864;-76.50168
11/8/2018 14:06			0	0	0	0	0	0	0.015	
11/8/2018 14:07			0	0	0	0	0	0	0.015	
11/8/2018 14:08			0	0	0	0	0	0	0.015	
11/8/2018 14:09			0	0	0	0	0	0	0.015	
11/8/2018 14:10	12.7	88.1	0	0	0	0	0	0	0.015	
11/8/2018 14:10										42.42872;-76.50169
11/8/2018 14:11			0	0	0	0	0	0	0.015	
11/8/2018 14:12			0	0	0	0	0	0	0.014	
11/8/2018 14:13			0	0	0	0	0	0	0.014	
11/8/2018 14:14			0	0	0	0	0	0	0.014	
11/8/2018 14:15	12.7	69.8	0	0	0	0	0	0	0.014	
11/8/2018 14:15										42.4287;-76.50169
11/8/2018 14:16			0	0	0	0	0	0	0.013	
11/8/2018 14:17			0	0	0	0	0	0	0.014	
11/8/2018 14:18			0	0	0	0	0	0	0.013	
11/8/2018 14:19			0	0	0	0	0	0	0.014	
11/8/2018 14:20	12.7	71.9	0	0.001	0	0	0.001	0.001	0.014	
11/8/2018 14:20										42.42867;-76.50162
11/8/2018 14:21			0	0.004	0	0	0	0.001	0.014	
11/8/2018 14:22			0	0.004	0	0	0.001	0.001	0.013	
11/8/2018 14:23			0	0.004	0	0	0.004	0.001	0.013	
11/8/2018 14:24			0	0.008	0	0	0.005	0.001	0.013	
11/8/2018 14:25	12.7	74.9	0	0.008	0	0	0.006	0.001	0.013	
11/8/2018 14:25										42.42883;-76.50166
11/8/2018 14:26			0	0.013	0.001	0	0.007	0.001	0.013	
11/8/2018 14:27			0	0.013	0.001	0	0.004	0.001	0.013	
11/8/2018 14:28			0	0.013	0.002	0	0.012	0.001	0.013	
11/8/2018 14:29			0	0.013	0.002	0	0.012	0.001	0.013	
11/8/2018 14:30	12.7	69.8	0	0.013	0.003	0	0.011	0.001	0.015	
11/8/2018 14:30										42.42876;-76.50166
11/8/2018 14:31			0	0.014	0.004	0	0.013	0.001	0.014	
11/8/2018 14:32			0	0.016	0.005	0	0.016	0.001	0.014	
11/8/2018 14:33			0	0.017	0.006	0	0.012	0.001	0.013	
11/8/2018 14:34			0	0.018	0.006	0	0.016	0.001	0.013	
11/8/2018 14:35	12.7	70.9	0	0.019	0.008	0	0.016	0.001	0.013	
11/8/2018 14:35										42.42828;-76.50161
11/8/2018 14:36			0	0.019	0.009	0	0.017	0.001	0.014	
11/8/2018 14:37			0	0.02	0.01	0	0.016	0.001	0.015	
11/8/2018 14:38			0	0.021	0.011	0	0.017	0.001	0.016	
11/8/2018 14:39			0	0.023	0.012	0	0.02	0.001	0.016	
11/8/2018 14:40	12.7	74.9	0	0.025	0.013	0	0.024	0.001	0.016	
11/8/2018 14:40										42.42881;-76.5015
11/8/2018 14:41			0	0.025	0.013	0	0.024	0.001	0.016	
11/8/2018 14:42			0	0.026	0.014	0	0.025	0.001	0.016	
11/8/2018 14:43			0	0.027	0.016	0	0.025	0.001	0.016	
11/8/2018 14:44			0	0.028	0.017	0	0.028	0.001	0.016	
11/8/2018 14:45	12.7	80	0	0.029	0.018	0	0.025	0.001	0.016	
11/8/2018 14:45										42.4292;-76.50147
11/8/2018 14:46			0	0.029	0.019	0	0.029	0.001	0.015	
11/8/2018 14:47			0	0.031	0.02	0	0.029	0.001	0.016	
11/8/2018 14:48			0	0.032	0.021	0	0.028	0.001	0.015	
11/8/2018 14:49			0	0.032	0.022	0	0.03	0.001	0.016	
11/8/2018 14:50	12.7	76.9	0	0.032	0.023	0	0.031	0.001	0.016	
11/8/2018 14:50										42.42862;-76.50157
11/8/2018 14:51			0	0.037	0.024	0.001	0.036	0.001	0.016	
11/8/2018 14:52			0	0.04	0.026	0.001	0.038	0.001	0.015	
11/8/2018 14:53			0	0.04	0.027	0.001	0.038	0.002	0.015	
11/8/2018 14:54			0	0.041	0.028	0.001	0.039	0.002	0.016	
11/8/2018 14:55	12.7	81	0	0.041	0.029	0.001	0.038	0.002	0.015	
11/8/2018 14:55										42.42852;-76.50166
11/8/2018 14:56			0	0.041	0.03	0.001	0.038	0.002	0.016	
11/8/2018 14:57			0	0.043	0.031	0.001	0.038	0.002	0.016	
11/8/2018 14:58			0	0.043	0.032	0.001	0.042	0.002	0.016	
11/8/2018 14:59			0	0.045	0.034	0.001	0.041	0.002	0.016	
11/8/2018 15:00	12.7	80	0	0.046	0.035	0.001	0.043	0.002	0.015	
11/8/2018 15:00										42.42885;-76.50165
11/8/2018 15:01			0	0.046	0.036	0.001	0.041	0.002	0.016	
11/8/2018 15:02			0	0.046	0.036	0.001	0.04	0.002	0.016	
11/8/2018 15:03			0	0.048	0.037	0.002	0.043	0.002	0.015	
11/8/2018 15:04			0	0.048	0.038	0.002	0.047	0.002	0.016	
11/8/2018 15:05	12.7	82	0	0.049	0.039	0.002	0.045	0.002	0.016	
11/8/2018 15:05										42.42872;-76.50167
11/8/2018 15:06			0	0.051	0.04	0.002	0.048	0.002	0.016	
11/8/2018 15:07			0	0.051	0.041	0.002	0.05	0.002	0.016	
11/8/2018 15:08			0	0.051	0.042	0.002	0.051	0.002	0.015	
11/8/2018 15:09			0	0.052	0.042	0.002	0.05	0.002	0.016	
11/8/2018 15:10	12.6	92.1	0	0.054	0.043	0.002	0.051	0.002	0.015	
11/8/2018 15:10										42.42871;-76.50171
11/8/2018 15:11			0	0.055	0.044	0.002	0.053	0.002	0.016	
11/8/2018 15:12			0	0.056	0.045	0.002	0.055	0.002	0.017	
11/8/2018 15:13			0	0.058	0.046	0.003	0.053	0.002	0.017	
11/8/2018 15:14			0	0.058	0.047	0.003	0.055	0.002	0.016	
11/8/2018 15:15	12.7	70.9	0	0.058	0.048	0.003	0.056	0.002	0.015	
11/8/2018 15:15										42.4287;-76.50167

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/8/2018 15:16			0	0.061	0.049	0.003	0.056	0.002	0.016	
11/8/2018 15:17			0	0.061	0.05	0.003	0.057	0.002	0.016	
11/8/2018 15:18			0	0.061	0.051	0.003	0.058	0.002	0.016	
11/8/2018 15:19			0	0.061	0.052	0.003	0.058	0.002	0.016	
11/8/2018 15:20	12.7	75.9	0	0.062	0.053	0.003	0.058	0.002	0.016	
11/8/2018 15:20										42.42867;-76.50169
11/8/2018 15:21			0	0.062	0.053	0.004	0.059	0.002	0.016	
11/8/2018 15:22			0	0.063	0.054	0.004	0.058	0.002	0.016	
11/8/2018 15:23			0	0.063	0.055	0.004	0.057	0.002	0.016	
11/8/2018 15:24			0	0.065	0.056	0.004	0.063	0.003	0.016	
11/8/2018 15:25	12.7	76.9	0	0.065	0.056	0.004	0.063	0.003	0.016	
11/8/2018 15:25										42.42863;-76.50173
11/8/2018 15:26			0	0.065	0.057	0.004	0.061	0.003	0.016	
11/8/2018 15:27			0	0.065	0.058	0.004	0.063	0.003	0.016	
11/8/2018 15:28			0	0.065	0.058	0.004	0.062	0.003	0.016	
11/8/2018 15:29			0	0.066	0.059	0.005	0.065	0.003	0.016	
11/8/2018 15:30	12.6	80	0	0.067	0.059	0.005	0.064	0.003	0.016	
11/8/2018 15:30										42.42865;-76.50171
11/8/2018 15:31			0	0.069	0.06	0.005	0.062	0.003	0.016	
11/8/2018 15:32			0	0.069	0.06	0.005	0.067	0.003	0.016	
11/8/2018 15:33			0	0.07	0.061	0.005	0.067	0.003	0.016	
11/8/2018 15:34			0	0.072	0.062	0.005	0.071	0.003	0.016	
11/8/2018 15:35	12.6	70.9	0	0.074	0.062	0.005	0.072	0.003	0.017	
11/8/2018 15:35										42.42877;-76.50179
11/8/2018 15:36			0	0.074	0.063	0.006	0.071	0.003	0.016	
11/8/2018 15:37			0	0.076	0.064	0.006	0.073	0.003	0.017	
11/8/2018 15:38			0	0.076	0.065	0.006	0.071	0.003	0.017	
11/8/2018 15:39			0	0.076	0.066	0.006	0.068	0.003	0.017	
11/8/2018 15:40	12.6	71.9	0	0.076	0.066	0.006	0.073	0.003	0.017	
11/8/2018 15:40										42.42876;-76.50173
11/8/2018 15:41			0	0.077	0.067	0.006	0.076	0.003	0.017	
11/8/2018 15:42			0	0.078	0.068	0.006	0.074	0.003	0.017	
11/8/2018 15:43			0	0.078	0.069	0.007	0.074	0.003	0.017	
11/8/2018 15:44			0	0.078	0.07	0.007	0.078	0.003	0.017	
11/8/2018 15:45	12.6	71.9	0	0.079	0.07	0.007	0.073	0.003	0.016	
11/8/2018 15:45										42.42875;-76.5017
11/8/2018 15:46			0	0.079	0.071	0.007	0.076	0.003	0.016	
11/8/2018 15:47			0	0.079	0.072	0.007	0.075	0.003	0.016	
11/8/2018 15:48			0	0.079	0.072	0.007	0.077	0.003	0.016	
11/8/2018 15:49			0	0.082	0.073	0.007	0.08	0.003	0.016	
11/8/2018 15:50	12.6	70.9	0	0.082	0.073	0.008	0.08	0.003	0.016	
11/8/2018 15:50										42.42873;-76.50172
11/8/2018 15:51			0	0.082	0.074	0.008	0.081	0.003	0.016	
11/8/2018 15:52			0	0.084	0.075	0.008	0.082	0.003	0.016	
11/8/2018 15:53			0	0.085	0.075	0.008	0.08	0.004	0.016	
11/8/2018 15:54			0	0.085	0.076	0.008	0.079	0.004	0.016	
11/8/2018 15:55	12.6	75.9	0	0.085	0.076	0.008	0.082	0.004	0.016	
11/8/2018 15:55										42.42872;-76.50166
11/8/2018 15:56			0	0.085	0.077	0.009	0.082	0.004	0.017	
11/8/2018 15:57			0	0.086	0.077	0.009	0.084	0.004	0.016	
11/8/2018 15:58			0	0.086	0.078	0.009	0.081	0.004	0.016	
11/8/2018 15:59			0	0.086	0.078	0.009	0.084	0.004	0.016	
11/8/2018 16:00	12.6	71.9	0	0.086	0.079	0.009	0.082	0.004	0.016	
11/8/2018 16:00										42.42871;-76.50171
11/8/2018 16:01			0	0.086	0.079	0.01	0.082	0.004	0.015	
11/8/2018 16:02			0	0.087	0.08	0.01	0.082	0.004	0.016	
11/8/2018 16:03			0	0.087	0.08	0.01	0.084	0.004	0.015	
11/8/2018 16:04			0	0.088	0.081	0.01	0.083	0.004	0.016	
11/8/2018 16:05	12.6	72.9	0	0.088	0.081	0.01	0.087	0.004	0.015	
11/8/2018 16:05										42.42873;-76.50169
11/8/2018 16:06			0	0.088	0.082	0.01	0.084	0.004	0.015	
11/8/2018 16:07			0	0.088	0.082	0.011	0.084	0.004	0.015	
11/8/2018 16:08			0	0.089	0.082	0.011	0.086	0.004	0.016	
11/8/2018 16:09			0	0.091	0.083	0.011	0.086	0.004	0.016	
11/8/2018 16:10	12.6	81	0	0.091	0.083	0.011	0.087	0.004	0.017	
11/8/2018 16:10										42.42876;-76.50174
11/8/2018 16:11			0	0.091	0.083	0.011	0.088	0.004	0.016	
11/8/2018 16:12			0	0.091	0.084	0.011	0.091	0.004	0.015	
11/8/2018 16:13			0	0.092	0.084	0.012	0.085	0.004	0.015	
11/8/2018 16:14			0	0.092	0.084	0.012	0.089	0.004	0.015	
11/8/2018 16:15	12.6	71.9	0	0.092	0.085	0.012	0.091	0.004	0.015	
11/8/2018 16:15										42.42872;-76.50173
11/8/2018 16:16			0	0.092	0.085	0.012	0.085	0.004	0.015	
11/8/2018 16:17			0	0.092	0.086	0.012	0.088	0.004	0.016	
11/8/2018 16:18			0	0.094	0.086	0.013	0.091	0.004	0.015	
11/8/2018 16:19			0	0.094	0.086	0.013	0.089	0.004	0.015	
11/8/2018 16:20	12.6	70.9	0	0.094	0.087	0.013	0.09	0.004	0.015	
11/8/2018 16:20										42.42877;-76.5017
11/8/2018 16:21			0	0.094	0.087	0.013	0.093	0.004	0.015	
11/8/2018 16:22			0	0.097	0.088	0.013	0.096	0.004	0.014	
11/8/2018 16:23			0	0.097	0.088	0.014	0.092	0.004	0.014	
11/8/2018 16:24			0	0.098	0.088	0.014	0.095	0.005	0.014	
11/8/2018 16:25	12.6	71.9	0	0.098	0.089	0.014	0.096	0.005	0.014	
11/8/2018 16:25										42.42876;-76.50175
11/8/2018 16:26			0	0.098	0.09	0.014	0.095	0.005	0.014	
11/8/2018 16:27			0	0.099	0.09	0.014	0.094	0.005	0.014	
11/8/2018 16:28			0	0.099	0.091	0.014	0.099	0.005	0.014	
11/8/2018 16:29			0	0.099	0.091	0.015	0.093	0.005	0.015	
11/8/2018 16:30	12.6	70.9	0	0.099	0.091	0.015	0.096	0.005	0.016	
11/8/2018 16:30										42.42875;-76.50175
11/8/2018 16:31			0	0.099	0.092	0.015	0.092	0.005	0.016	
11/8/2018 16:32			0	0.099	0.092	0.015	0.097	0.005	0.016	
11/8/2018 16:33			0	0.099	0.093	0.015	0.095	0.005	0.016	
11/8/2018 16:34			0	0.099	0.093	0.016	0.095	0.005	0.016	
11/8/2018 16:35	12.6	79	0	0.099	0.093	0.016	0.096	0.005	0.016	
11/8/2018 16:35										42.42871;-76.50169
11/8/2018 16:36			0	0.099	0.094	0.016	0.099	0.005	0.016	
11/8/2018 16:37			0	0.102	0.094	0.016	0.101	0.005	0.016	
11/8/2018 16:38			0	0.103	0.095	0.016	0.096	0.005	0.016	
11/8/2018 16:39			0	0.103	0.095	0.017	0.098	0.005	0.016	
11/8/2018 16:40	12.6	73.9	0	0.103	0.095	0.017	0.095	0.005	0.016	
11/8/2018 16:40										42.42867;-76.50169
11/8/2018 16:41			0	0.103	0.095	0.017	0.097	0.005	0.016	
11/8/2018 16:42			0	0.103	0.095	0.017	0.097	0.005	0.016	
11/8/2018 16:43			0	0.103	0.095	0.017	0.098	0.005	0.015	
11/8/2018 16:44			0	0.103	0.095	0.018	0.096	0.005	0.014	
11/8/2018 16:45	12.6	70.9	0	0.103	0.096	0.018	0.097	0.005	0.014	
11/8/2018 16:45										42.42871;-76.50169
11/8/2018 16:46			0	0.103	0.096	0.018	0.095	0.005	0.014	

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October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/8/2018 16:47			0	0.103	0.096	0.018	0.098	0.005	0.014	
11/8/2018 16:48			0	0.103	0.096	0.018	0.095	0.005	0.014	
11/8/2018 16:49			0	0.103	0.096	0.019	0.098	0.005	0.014	
11/8/2018 16:50	12.6	71.9	0	0.103	0.096	0.019	0.1	0.005	0.014	
11/8/2018 16:50										42.42868;-76.50164
11/8/2018 16:51			0	0.103	0.097	0.019	0.101	0.005	0.014	
11/8/2018 16:52			0	0.103	0.097	0.019	0.1	0.005	0.014	
11/8/2018 16:53			0	0.104	0.097	0.02	0.1	0.005	0.014	
11/8/2018 16:54			0	0.107	0.097	0.02	0.105	0.005	0.014	
11/8/2018 16:55	12.6	83	0	0.108	0.098	0.02	0.105	0.005	0.014	
11/8/2018 16:55										42.42864;-76.50166
11/8/2018 16:56			0	0.108	0.098	0.02	0.101	0.006	0.014	
11/8/2018 16:57			0	0.108	0.098	0.02	0.1	0.006	0.014	
11/8/2018 16:58			0	0.108	0.099	0.021	0.099	0.006	0.014	
11/8/2018 16:59			0	0.108	0.099	0.021	0.101	0.006	0.014	
11/8/2018 17:00	12.5	75.9	0	0.108	0.099	0.021	0.102	0.006	0.014	
11/8/2018 17:00										42.42871;-76.50177
11/8/2018 17:01			0	0.108	0.099	0.021	0.099	0.006	0.013	
11/8/2018 17:02			0	0.108	0.1	0.021	0.102	0.006	0.014	
11/8/2018 17:03			0	0.108	0.1	0.022	0.102	0.006	0.014	
11/8/2018 17:04			0	0.108	0.1	0.022	0.101	0.006	0.014	
11/8/2018 17:05	12.6	71.9	0	0.108	0.1	0.022	0.102	0.006	0.014	
11/8/2018 17:05										42.42875;-76.50177
11/8/2018 17:06			0	0.108	0.101	0.022	0.099	0.006	0.015	
11/8/2018 17:07			0	0.108	0.101	0.022	0.104	0.006	0.014	
11/8/2018 17:08			0	0.108	0.101	0.023	0.105	0.006	0.015	
11/8/2018 17:09			0	0.108	0.101	0.023	0.104	0.006	0.015	
11/8/2018 17:10	12.5	73.9	0	0.108	0.101	0.023	0.103	0.006	0.014	
11/8/2018 17:10										42.42874;-76.50175
11/8/2018 17:11			0	0.108	0.101	0.023	0.107	0.006	0.015	
11/8/2018 17:12			0	0.108	0.101	0.024	0.107	0.006	0.014	
11/8/2018 17:13			0	0.11	0.102	0.024	0.107	0.006	0.014	
11/8/2018 17:14			0	0.11	0.102	0.024	0.109	0.006	0.014	
11/8/2018 17:15	12.5	71.9	0	0.111	0.103	0.024	0.108	0.006	0.014	
11/8/2018 17:15										42.42867;-76.50167
11/8/2018 17:16			0	0.113	0.103	0.024	0.107	0.006	0.015	
11/8/2018 17:17			0	0.113	0.104	0.025	0.107	0.006	0.015	
11/8/2018 17:18			0	0.113	0.104	0.025	0.107	0.006	0.014	
11/8/2018 17:19			0	0.113	0.104	0.025	0.112	0.006	0.014	
11/8/2018 17:20	12.5	74.9	0	0.113	0.105	0.025	0.104	0.006	0.014	
11/8/2018 17:20										42.42868;-76.50172
11/8/2018 17:21			0	0.113	0.105	0.026	0.11	0.006	0.014	
11/8/2018 17:22			0	0.114	0.106	0.026	0.113	0.006	0.014	
11/8/2018 17:23			0	0.114	0.107	0.026	0.111	0.006	0.013	
11/8/2018 17:24			0	0.114	0.107	0.026	0.108	0.006	0.013	
11/8/2018 17:25	12.5	72.9	0	0.114	0.107	0.026	0.108	0.006	0.014	
11/8/2018 17:25										42.42874;-76.50166
11/8/2018 17:26			0	0.114	0.107	0.027	0.111	0.006	0.013	
11/8/2018 17:27			0	0.114	0.108	0.027	0.109	0.006	0.013	
11/8/2018 17:28			0	0.114	0.108	0.027	0.11	0.006	0.013	
11/8/2018 17:29			0	0.114	0.108	0.027	0.108	0.006	0.013	
11/8/2018 17:30	12.5	72.9	0	0.114	0.108	0.028	0.111	0.006	0.012	
11/8/2018 17:30										42.42866;-76.50164
11/8/2018 17:31			0	0.114	0.108	0.028	0.107	0.007	0.013	
11/8/2018 17:32			0	0.114	0.108	0.028	0.108	0.007	0.012	
11/8/2018 17:33			0	0.114	0.109	0.028	0.108	0.007	0.012	
11/8/2018 17:34			0	0.114	0.109	0.029	0.109	0.007	0.012	
11/8/2018 17:35	12.5	74.9	0	0.114	0.108	0.029	0.109	0.007	0.013	
11/8/2018 17:35										42.42868;-76.50166
11/8/2018 17:36			0	0.114	0.108	0.029	0.11	0.007	0.013	
11/8/2018 17:37			0	0.114	0.108	0.029	0.11	0.007	0.012	
11/8/2018 17:38			0	0.114	0.108	0.029	0.107	0.007	0.012	
11/8/2018 17:39			0	0.114	0.108	0.03	0.11	0.007	0.012	
11/8/2018 17:40	12.5	80	0	0.114	0.108	0.03	0.11	0.007	0.012	
11/8/2018 17:40										42.4287;-76.50169
11/8/2018 17:41			0	0.114	0.108	0.03	0.107	0.007	0.012	
11/8/2018 17:42			0	0.114	0.108	0.03	0.107	0.007	0.012	
11/8/2018 17:43			0	0.114	0.108	0.031	0.108	0.007	0.012	
11/8/2018 17:44			0	0.114	0.108	0.031	0.106	0.007	0.012	
11/8/2018 17:45	12.5	75.9						0.007	0.012	
11/8/2018 17:45										42.42874;-76.50163
11/8/2018 17:46								0.007	0.013	
11/8/2018 17:47								0.007	0.013	
11/8/2018 17:48								0.007	0.013	
11/8/2018 17:49								0.007	0.013	
11/8/2018 17:50	12.5	72.9						0.007	0.014	
11/8/2018 17:50										42.42875;-76.50168
11/8/2018 17:51								0.007	0.013	
11/8/2018 17:52								0.007	0.011	
11/8/2018 17:53								0.007	0.011	
11/8/2018 17:54								0.007	0.011	
11/8/2018 17:55	12.5	70.9						0.007	0.011	
11/8/2018 17:55										42.42875;-76.50165
11/8/2018 17:56								0.007	0.011	
11/8/2018 17:57								0.007	0.011	
11/8/2018 17:58								0.007	0.011	
11/8/2018 17:59								0.007	0.011	
11/8/2018 18:00	12.5	77.9						0.007	0.012	
11/8/2018 18:00										42.42871;-76.50168
11/8/2018 18:01								0.007	0.011	
11/8/2018 18:02								0.007	0.01	
11/8/2018 18:03								0.007	0.01	
11/8/2018 18:04								0.007	0.011	
11/8/2018 18:05	12.5	82						0.007	0.01	
11/8/2018 18:05										42.42873;-76.50167
11/8/2018 18:06								0.007	0.01	
11/8/2018 18:07								0.007	0.01	
11/8/2018 18:08								0.007	0.01	
11/8/2018 18:09								0.007	0.01	
11/8/2018 18:10	12.5	80						0.007	0.011	
11/8/2018 18:10										42.42873;-76.50168
11/8/2018 18:11								0.007	0.011	
11/8/2018 18:12								0.008	0.011	
11/8/2018 18:13								0.008	0.011	
11/8/2018 18:14								0.008	0.01	
11/8/2018 18:15	12.5	71.9						0.008	0.011	
11/8/2018 18:15										42.4287;-76.50166
11/8/2018 18:16								0.008	0.011	
11/8/2018 18:17								0.008	0.011	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/8/2018 18:18								0.008	0.011	
11/8/2018 18:19								0.008	0.01	
11/8/2018 18:20	12.5	72.9						0.008	0.01	
11/8/2018 18:20										42.42874;-76.50166
11/8/2018 18:21								0.008	0.01	
11/8/2018 18:22								0.008	0.01	
11/8/2018 18:23								0.008	0.01	
11/8/2018 18:24								0.008	0.01	
11/8/2018 18:25	12.5	81						0.008	0.01	
11/8/2018 18:25										42.4287;-76.50174
11/8/2018 18:26								0.008	0.01	
11/8/2018 18:27								0.008	0.01	
11/8/2018 18:28								0.008	0.01	
11/8/2018 18:29								0.008	0.01	
11/8/2018 18:30	12.5	82						0.008	0.01	
11/8/2018 18:30										42.42872;-76.50172
11/8/2018 18:31								0.008	0.009	
11/8/2018 18:32								0.008	0.009	
11/8/2018 18:33								0.008	0.01	
11/8/2018 18:34								0.008	0.009	
11/8/2018 18:35	12.5	71.9						0.008	0.009	
11/8/2018 18:35										42.42878;-76.50164
11/8/2018 18:36								0.008	0.009	
11/8/2018 18:37								0.008	0.009	
11/8/2018 18:38								0.008	0.009	
11/8/2018 18:39								0.008	0.01	
11/8/2018 18:40	12.5	72.9						0.008	0.01	
11/8/2018 18:40										42.42876;-76.50169
11/8/2018 18:41								0.008	0.009	
11/8/2018 18:42								0.008	0.01	
11/8/2018 18:43								0.008	0.01	
11/8/2018 18:44								0.008	0.009	
11/8/2018 18:45	12.4	72.9						0.008	0.009	
11/8/2018 18:45										42.42873;-76.50172
11/8/2018 18:46								0.008	0.009	
11/8/2018 18:47								0.008	0.009	
11/8/2018 18:48								0.008	0.009	
11/8/2018 18:49								0.008	0.009	
11/8/2018 18:50	12.4	72.9						0.008	0.009	
11/8/2018 18:50										42.42873;-76.50174
11/8/2018 18:51								0.008	0.009	
11/8/2018 18:52								0.008	0.009	
11/8/2018 18:53								0.008	0.009	
11/8/2018 18:54								0.008	0.009	
11/8/2018 18:55	12.4	70.9						0.008	0.009	
11/8/2018 18:55										42.4287;-76.50172
11/8/2018 18:56								0.008	0.008	
11/8/2018 18:57								0.008	0.009	
11/8/2018 18:58								0.008	0.009	
11/8/2018 18:59								0.008	0.009	
11/8/2018 19:00	12.4	74.9						0.008	0.009	
11/8/2018 19:00										42.42868;-76.50172
11/8/2018 19:01								0.008	0.009	
11/8/2018 19:02								0.008	0.009	
11/8/2018 19:03								0.009	0.009	
11/8/2018 19:04								0.009	0.009	
11/8/2018 19:05	12.4	71.9						0.009	0.009	
11/8/2018 19:05										42.42865;-76.50171
11/8/2018 19:06								0.009	0.009	
11/8/2018 19:07								0.009	0.009	
11/8/2018 19:08								0.009	0.009	
11/8/2018 19:09								0.009	0.009	
11/8/2018 19:10	12.4	74.9						0.009	0.009	
11/8/2018 19:10										42.42868;-76.5017
11/8/2018 19:11								0.009	0.01	
11/8/2018 19:12								0.009	0.01	
11/8/2018 19:13								0.009	0.01	
11/8/2018 19:14								0.009	0.009	
11/8/2018 19:15	12.4	81						0.009	0.009	
11/8/2018 19:15										42.42865;-76.50166
11/8/2018 19:16								0.009	0.009	
11/8/2018 19:17								0.009	0.009	
11/8/2018 19:18								0.009	0.009	
11/8/2018 19:19								0.009	0.009	
11/8/2018 19:20	12.4	81						0.009	0.01	
11/8/2018 19:20										42.42867;-76.50174
11/8/2018 19:21								0.009	0.01	
11/8/2018 19:22								0.009	0.01	
11/8/2018 19:23								0.009	0.01	
11/8/2018 19:24								0.009	0.01	
11/8/2018 19:25	12.4	72.9						0.009	0.01	
11/8/2018 19:25										42.42869;-76.50171
11/8/2018 19:26								0.009	0.01	
11/8/2018 19:27								0.009	0.01	
11/8/2018 19:28								0.009	0.01	
11/8/2018 19:29								0.009	0.01	
11/8/2018 19:30	12.4	81						0.009	0.01	
11/8/2018 19:30										42.42865;-76.50169
11/9/2018 12:58	12.9	94.1								
11/9/2018 12:58										42.433859700000006;-76.4991256
11/9/2018 13:00	12.8	73.9								
11/9/2018 13:00										42.43296;-76.49823
11/9/2018 13:01								0	0.016	
11/9/2018 13:02								0	0.018	
11/9/2018 13:03								0	0.017	
11/9/2018 13:04								0	0.017	
11/9/2018 13:05	12.7	87						0	0.018	
11/9/2018 13:05										42.43302;-76.49806
11/9/2018 13:06								0	0.018	
11/9/2018 13:07								0	0.018	
11/9/2018 13:08								0	0.019	
11/9/2018 13:09								0	0.019	
11/9/2018 13:10	12.7	70.9						0	0.018	42.43304;-76.49803
11/9/2018 13:11								0	0.018	
11/9/2018 13:12								0	0.018	
11/9/2018 13:13								0	0.017	
11/9/2018 13:14								0	0.017	
11/9/2018 13:15	12.7	73.9						0	0.017	42.43305;-76.49799
11/9/2018 13:16								0.001	0.018	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/9/2018 13:17								0.001	0.017	
11/9/2018 13:18								0.001	0.017	
11/9/2018 13:19								0.001	0.019	
11/9/2018 13:20	12.7	76.9						0.001	0.017	42.43303;-76.49798
11/9/2018 13:21								0.001	0.017	
11/9/2018 13:22								0.001	0.017	
11/9/2018 13:23								0.001	0.016	
11/9/2018 13:24								0.001	0.016	
11/9/2018 13:25	12.7	81						0.001	0.016	42.43309;-76.49801
11/9/2018 13:26								0.001	0.016	
11/9/2018 13:27								0.001	0.016	
11/9/2018 13:28								0.001	0.016	
11/9/2018 13:29								0.001	0.015	
11/9/2018 13:30	12.7	74.9						0.001	0.014	42.43304;-76.49792
11/9/2018 13:31								0.001	0.015	
11/9/2018 13:32								0.001	0.015	
11/9/2018 13:33								0.001	0.015	
11/9/2018 13:34								0.001	0.014	
11/9/2018 13:35	12.7	86						0.001	0.014	42.43304;-76.49798
11/9/2018 13:36								0.001	0.014	
11/9/2018 13:37								0.001	0.014	
11/9/2018 13:38								0.001	0.015	
11/9/2018 13:39								0.001	0.014	
11/9/2018 13:40	12.7	74.9						0.001	0.014	42.43307;-76.49802
11/9/2018 13:41								0.001	0.014	
11/9/2018 13:42								0.001	0.015	
11/9/2018 13:43								0.001	0.019	
11/9/2018 13:44								0.001	0.017	
11/9/2018 13:45	12.7	71.9						0.002	0.016	42.43298;-76.49796
11/9/2018 13:46								0.002	0.016	
11/9/2018 13:47								0.002	0.016	
11/9/2018 13:48								0.002	0.017	
11/9/2018 13:49								0.002	0.018	
11/9/2018 13:50	12.7	72.9						0.002	0.018	42.43292;-76.49789
11/9/2018 13:51								0.002	0.017	
11/9/2018 13:52								0.002	0.017	
11/9/2018 13:53								0.002	0.016	
11/9/2018 13:54								0.002	0.017	
11/9/2018 13:55	12.7	72.9						0.002	0.017	42.43303;-76.49793
11/9/2018 13:56								0.002	0.017	
11/9/2018 13:57								0.002	0.017	
11/9/2018 13:58								0.002	0.016	
11/9/2018 13:59								0.002	0.017	
11/9/2018 14:00	12.7	82						0.002	0.018	42.43304;-76.49794
11/9/2018 14:01								0.002	0.017	
11/9/2018 14:02								0.002	0.017	
11/9/2018 14:03								0.002	0.017	
11/9/2018 14:04								0.002	0.017	
11/9/2018 14:05	12.7	71.9						0.002	0.016	42.43299;-76.49799
11/9/2018 14:06								0.002	0.016	
11/9/2018 14:07								0.002	0.016	
11/9/2018 14:08								0.002	0.016	
11/9/2018 14:09								0.002	0.016	
11/9/2018 14:10	12.7	79						0.002	0.017	42.43299;-76.49794
11/9/2018 14:11								0.002	0.016	
11/9/2018 14:12								0.002	0.016	
11/9/2018 14:13								0.003	0.018	
11/9/2018 14:14								0.003	0.017	
11/9/2018 14:15	12.7	81						0.003	0.016	42.43304;-76.49796
11/9/2018 14:16								0.003	0.015	
11/9/2018 14:17								0.003	0.016	
11/9/2018 14:18								0.003	0.015	
11/9/2018 14:19								0.003	0.015	
11/9/2018 14:20	12.6	69.8						0.003	0.017	42.43306;-76.49797
11/9/2018 14:21								0.003	0.016	
11/9/2018 14:22								0.003	0.018	
11/9/2018 14:23								0.003	0.017	
11/9/2018 14:24								0.003	0.017	
11/9/2018 14:25	12.6	73.9						0.003	0.018	42.43305;-76.4979
11/9/2018 14:26								0.003	0.017	
11/9/2018 14:27								0.003	0.018	
11/9/2018 14:28								0.003	0.018	
11/9/2018 14:29								0.003	0.016	
11/9/2018 14:30	12.6	76.9						0.003	0.017	42.43299;-76.49791
11/9/2018 14:31								0.003	0.018	
11/9/2018 14:32								0.003	0.016	
11/9/2018 14:33								0.003	0.016	
11/9/2018 14:34								0.003	0.015	
11/9/2018 14:35	12.6	73.9						0.003	0.015	42.43291;-76.49789
11/9/2018 14:36								0.003	0.015	
11/9/2018 14:37								0.003	0.015	
11/9/2018 14:38								0.003	0.015	
11/9/2018 14:39								0.003	0.014	
11/9/2018 14:40	12.6	74.9						0.003	0.015	42.43278;-76.49783
11/9/2018 14:41								0.003	0.014	
11/9/2018 14:42								0.003	0.014	
11/9/2018 14:43								0.004	0.014	
11/9/2018 14:44								0.004	0.014	
11/9/2018 14:45	12.6	75.9						0.004	0.014	42.43287;-76.49787
11/9/2018 14:46								0.004	0.015	
11/9/2018 14:47								0.004	0.014	
11/9/2018 14:48								0.004	0.013	
11/9/2018 14:49								0.004	0.013	
11/9/2018 14:50	12.6	75.9						0.004	0.012	42.43281;-76.4979
11/9/2018 14:51								0.004	0.012	
11/9/2018 14:52								0.004	0.012	
11/9/2018 14:53								0.004	0.012	
11/9/2018 14:54								0.004	0.013	
11/9/2018 14:55	12.6	73.9						0.004	0.013	42.4328;-76.49796
11/9/2018 14:56								0.004	0.013	
11/9/2018 14:57								0.004	0.012	
11/9/2018 14:58								0.004	0.012	
11/9/2018 14:59								0.004	0.012	
11/9/2018 15:00	12.6	82						0.004	0.012	42.43285;-76.4978
11/9/2018 15:01								0.004	0.013	
11/9/2018 15:02								0.004	0.012	
11/9/2018 15:03								0.004	0.012	
11/9/2018 15:04								0.004	0.012	
11/9/2018 15:05	12.6	81						0.004	0.013	42.43293;-76.49789

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/9/2018 15:06								0.004	0.013	
11/9/2018 15:07								0.004	0.012	
11/9/2018 15:08								0.004	0.012	
11/9/2018 15:09								0.004	0.012	
11/9/2018 15:10	12.6	71.9						0.004	0.012	42.43293;-76.49784
11/9/2018 15:11								0.004	0.012	
11/9/2018 15:12								0.004	0.012	
11/9/2018 15:13								0.004	0.014	
11/9/2018 15:14								0.004	0.012	
11/9/2018 15:15	12.6	72.9						0.004	0.012	42.43295;-76.49787
11/9/2018 15:16								0.004	0.011	
11/9/2018 15:17								0.004	0.012	
11/9/2018 15:18								0.004	0.013	
11/9/2018 15:19								0.004	0.011	
11/9/2018 15:20	12.6	71.9						0.004	0.011	42.43296;-76.49791
11/9/2018 15:21								0.004	0.011	
11/9/2018 15:22								0.005	0.012	
11/9/2018 15:23								0.005	0.012	
11/9/2018 15:24								0.005	0.011	
11/9/2018 15:25	12.6	74.9						0.005	0.011	42.43296;-76.49796
11/9/2018 15:26								0.005	0.011	
11/9/2018 15:27								0.005	0.011	
11/9/2018 15:28								0.005	0.011	
11/9/2018 15:29								0.005	0.011	
11/9/2018 15:30	12.6	71.9						0.005	0.011	42.43298;-76.49797
11/9/2018 15:31								0.005	0.011	
11/9/2018 15:32								0.005	0.011	
11/9/2018 15:33								0.005	0.011	
11/9/2018 15:34								0.005	0.011	
11/9/2018 15:35	12.6	71.9						0.005	0.012	42.43299;-76.49796
11/9/2018 15:36								0.005	0.011	
11/9/2018 15:37								0.005	0.011	
11/9/2018 15:38								0.005	0.011	
11/9/2018 15:39								0.005	0.011	
11/9/2018 15:40	12.5	118.4						0.005	0.016	42.43296;-76.49787
11/9/2018 15:41								0.005	0.011	
11/9/2018 15:42								0.005	0.013	
11/9/2018 15:43								0.005	0.011	
11/9/2018 15:44								0.005	0.012	
11/9/2018 15:45	12.5	80						0.005	0.012	42.43297;-76.49789
11/9/2018 15:46								0.005	0.011	
11/9/2018 15:47								0.005	0.011	
11/9/2018 15:48								0.005	0.014	
11/9/2018 15:49								0.005	0.012	
11/9/2018 15:50	12.5	70.9						0.005	0.011	42.43296;-76.49789
11/9/2018 15:51								0.005	0.011	
11/9/2018 15:52								0.005	0.011	
11/9/2018 15:53								0.005	0.01	
11/9/2018 15:54								0.005	0.01	
11/9/2018 15:55	12.5	77.9						0.005	0.01	
11/9/2018 15:55										42.43297;-76.49795
11/9/2018 15:56								0.005	0.01	
11/9/2018 15:57								0.005	0.01	
11/9/2018 15:58								0.005	0.01	
11/9/2018 15:59								0.005	0.01	
11/9/2018 16:00	12.5	72.9						0.005	0.011	
11/9/2018 16:00										42.43298;-76.49793
11/9/2018 16:01								0.005	0.01	
11/9/2018 16:02								0.005	0.01	
11/9/2018 16:03								0.005	0.01	
11/9/2018 16:04								0.005	0.01	
11/9/2018 16:05	12.5	83						0.006	0.01	
11/9/2018 16:05										42.43297;-76.49792
11/9/2018 16:06								0.006	0.01	
11/9/2018 16:07								0.006	0.01	
11/9/2018 16:08								0.006	0.01	
11/9/2018 16:09								0.006	0.01	
11/9/2018 16:10	12.5	75.9						0.006	0.01	
11/9/2018 16:10										42.43304;-76.49799
11/9/2018 16:11								0.006	0.01	
11/9/2018 16:12								0.006	0.01	
11/9/2018 16:13								0.006	0.011	
11/9/2018 16:14								0.006	0.01	
11/9/2018 16:15	12.5	82						0.006	0.01	
11/9/2018 16:15										42.43301;-76.49797
11/9/2018 16:16								0.006	0.01	
11/9/2018 16:17								0.006	0.01	
11/9/2018 16:18								0.006	0.01	
11/9/2018 16:19								0.006	0.01	
11/9/2018 16:20	12.5	89.1						0.006	0.011	
11/9/2018 16:20										42.43305;-76.49799
11/9/2018 16:21								0.006	0.011	
11/9/2018 16:22								0.006	0.012	
11/9/2018 16:23								0.006	0.012	
11/9/2018 16:24								0.006	0.01	
11/9/2018 16:25	12.5	73.9						0.006	0.011	
11/9/2018 16:25										42.43303;-76.49796
11/9/2018 16:26								0.006	0.011	
11/9/2018 16:27								0.006	0.011	
11/9/2018 16:28								0.006	0.011	
11/9/2018 16:29								0.006	0.011	
11/9/2018 16:30	12.5	82						0.006	0.011	
11/9/2018 16:30										42.43329;-76.49831
11/9/2018 16:31								0.006	0.011	
11/9/2018 16:32								0.006	0.011	
11/9/2018 16:33								0.006	0.011	
11/9/2018 16:34								0.006	0.011	
11/9/2018 16:35	12.5	72.9						0.006	0.011	
11/9/2018 16:35										42.43306;-76.49805
11/9/2018 16:36								0.006	0.011	
11/9/2018 16:37								0.006	0.01	
11/9/2018 16:38								0.006	0.01	
11/9/2018 16:39								0.006	0.014	
11/9/2018 16:40	12.5	73.9						0.006	0.011	
11/9/2018 16:40										42.43298;-76.49791
11/9/2018 16:41								0.006	0.011	
11/9/2018 16:42								0.006	0.011	
11/9/2018 16:43								0.006	0.011	
11/9/2018 16:44								0.006	0.011	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/9/2018 16:45	12.4	83						0.006	0.011	
11/9/2018 16:45										42.43298;-76.49789
11/9/2018 16:46								0.006	0.012	
11/9/2018 16:47								0.006	0.011	
11/9/2018 16:48								0.006	0.012	
11/9/2018 16:49								0.007	0.012	
11/9/2018 16:50	12.4	71.9						0.007	0.011	
11/9/2018 16:50										42.43301;-76.49796
11/9/2018 16:51								0.007	0.012	
11/9/2018 16:52								0.007	0.011	
11/9/2018 16:53								0.007	0.011	
11/9/2018 16:54								0.007	0.011	
11/9/2018 16:55	12.4	72.9						0.007	0.011	
11/9/2018 16:55										42.43301;-76.49796
11/9/2018 16:56								0.007	0.01	
11/9/2018 16:57								0.007	0.01	
11/9/2018 16:58								0.007	0.011	
11/9/2018 16:59								0.007	0.011	
11/9/2018 17:00	12.4	80						0.007	0.011	
11/9/2018 17:00										42.433;-76.49783
11/9/2018 17:01								0.007	0.011	
11/9/2018 17:02								0.007	0.01	
11/9/2018 17:03								0.007	0.01	
11/9/2018 17:04								0.007	0.011	
11/9/2018 17:05	12.4	74.9						0.007	0.011	
11/9/2018 17:05										42.43299;-76.49791
11/9/2018 17:06								0.007	0.011	
11/9/2018 17:07								0.007	0.011	
11/9/2018 17:08								0.007	0.011	
11/9/2018 17:09								0.007	0.011	
11/9/2018 17:10	12.4	72.9						0.007	0.011	
11/9/2018 17:10										42.43297;-76.4978
11/9/2018 17:11								0.007	0.011	
11/9/2018 17:12								0.007	0.011	
11/9/2018 17:13								0.007	0.011	
11/9/2018 17:14								0.007	0.011	
11/9/2018 17:15	12.4	75.9						0.007	0.011	
11/9/2018 17:15										42.43296;-76.49785
11/9/2018 17:16								0.007	0.011	
11/9/2018 17:17								0.007	0.011	
11/9/2018 17:18								0.007	0.011	
11/9/2018 17:19								0.007	0.011	
11/9/2018 17:20	12.4	73.9						0.007	0.011	
11/9/2018 17:20										42.43301;-76.49789
11/9/2018 17:21								0.007	0.011	
11/9/2018 17:22								0.007	0.011	
11/9/2018 17:23								0.007	0.011	
11/9/2018 17:24								0.007	0.011	
11/9/2018 17:25	12.4	73.9						0.007	0.01	
11/9/2018 17:25										42.43302;-76.49792
11/9/2018 17:26								0.007	0.01	
11/9/2018 17:27								0.007	0.011	
11/9/2018 17:28								0.007	0.011	
11/9/2018 17:29								0.007	0.011	
11/9/2018 17:30	12.4	76.9						0.007	0.011	
11/9/2018 17:30										42.43299;-76.49786
11/9/2018 17:31								0.007	0.011	
11/9/2018 17:32								0.007	0.011	
11/9/2018 17:33								0.007	0.011	
11/9/2018 17:34								0.008	0.011	
11/9/2018 17:35	12.4	82						0.008	0.011	
11/9/2018 17:35										42.43299;-76.4979
11/9/2018 17:36								0.008	0.011	
11/9/2018 17:37								0.008	0.011	
11/9/2018 17:38								0.008	0.011	
11/9/2018 17:39								0.008	0.011	
11/9/2018 17:40	12.4	79						0.008	0.011	
11/9/2018 17:40										42.43304;-76.49793
11/9/2018 17:41								0.008	0.011	
11/9/2018 17:42								0.008	0.011	
11/9/2018 17:43								0.008	0.011	
11/9/2018 17:44								0.008	0.011	
11/9/2018 17:45	12.4	72.9						0.008	0.011	
11/9/2018 17:45										42.43299;-76.49794
11/9/2018 17:46								0.008	0.011	
11/9/2018 17:47								0.008	0.011	
11/9/2018 17:48								0.008	0.011	
11/9/2018 17:49								0.008	0.011	
11/9/2018 17:50	12.4	80						0.008	0.011	
11/9/2018 17:50										42.433;-76.49792
11/9/2018 17:51								0.008	0.011	
11/9/2018 17:52								0.008	0.011	
11/9/2018 17:53								0.008	0.011	
11/9/2018 17:54								0.008	0.011	
11/9/2018 17:55	12.4	79						0.008	0.011	
11/9/2018 17:55										42.433;-76.49799
11/9/2018 17:56								0.008	0.011	
11/9/2018 17:57								0.008	0.011	
11/9/2018 17:58								0.008	0.011	
11/9/2018 17:59								0.008	0.012	
11/9/2018 18:00	12.4	80						0.008	0.012	
11/9/2018 18:00										42.43301;-76.49796
11/9/2018 18:01								0.008	0.012	
11/9/2018 18:02								0.008	0.012	
11/9/2018 18:03								0.008	0.011	
11/9/2018 18:04								0.008	0.011	
11/9/2018 18:05	12.3	73.9						0.008	0.012	
11/9/2018 18:05										42.43303;-76.49792
11/9/2018 18:06								0.008	0.012	
11/9/2018 18:07								0.008	0.012	
11/9/2018 18:08								0.008	0.012	
11/9/2018 18:09								0.008	0.012	
11/9/2018 18:10	12.3	71.9						0.008	0.012	
11/9/2018 18:10										42.43299;-76.49789
11/9/2018 18:11								0.008	0.013	
11/9/2018 18:12								0.008	0.013	
11/9/2018 18:13								0.008	0.013	
11/9/2018 18:14								0.008	0.014	
11/9/2018 18:15	12.3	73.9						0.009	0.013	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/9/2018 18:15										42.43303;-76.49789
11/9/2018 18:16								0.009	0.014	
11/9/2018 18:17								0.009	0.014	
11/9/2018 18:18								0.009	0.014	
11/9/2018 18:19								0.009	0.014	
11/9/2018 18:20	12.3	77.9						0.009	0.014	
11/9/2018 18:20										42.43303;-76.49797
11/9/2018 18:21								0.009	0.014	
11/9/2018 18:22								0.009	0.013	
11/9/2018 18:23								0.009	0.014	
11/9/2018 18:24								0.009	0.013	
11/9/2018 18:25	12.3	83						0.009	0.014	
11/9/2018 18:25										42.43302;-76.49794
11/9/2018 18:26								0.009	0.014	
11/9/2018 18:27								0.009	0.014	
11/9/2018 18:28								0.009	0.014	
11/9/2018 18:29								0.009	0.014	
11/9/2018 18:30	12.3	76.9						0.009	0.014	
11/9/2018 18:30										42.43304;-76.49786
11/9/2018 18:31								0.009	0.014	
11/9/2018 18:32								0.009	0.014	
11/9/2018 18:33								0.009	0.016	
11/9/2018 18:34								0.009	0.023	
11/9/2018 18:35	12.3	75.9						0.009	0.011	
11/9/2018 18:35										42.43303;-76.4979
11/9/2018 18:36								0.009	0.01	
11/10/2018 12:52	12.6	96.2								
11/10/2018 12:52										42.4358393;-76.5190401
11/10/2018 12:54								0	0.03	
11/10/2018 12:55	12.4	76.9						0	0.019	42.42817;-76.50185
11/10/2018 12:56								0	0.018	
11/10/2018 12:57								0	0.017	
11/10/2018 12:58								0	0.016	
11/10/2018 12:59								0	0.016	
11/10/2018 13:00	12.4	72.9						0	0.015	42.42813;-76.50187
11/10/2018 13:01								0	0.015	
11/10/2018 13:02								0	0.015	
11/10/2018 13:03								0	0.015	
11/10/2018 13:04								0	0.015	
11/10/2018 13:05	12.4	73.9						0	0.015	42.42815;-76.50182
11/10/2018 13:06								0	0.015	
11/10/2018 13:07								0	0.015	
11/10/2018 13:08								0	0.015	
11/10/2018 13:09								0	0.015	
11/10/2018 13:10	12.3	76.9						0.001	0.014	42.42816;-76.50185
11/10/2018 13:11								0.001	0.015	
11/10/2018 13:12								0.001	0.014	
11/10/2018 13:13								0.001	0.015	
11/10/2018 13:14								0.001	0.014	
11/10/2018 13:15	12.3	83						0.001	0.015	42.4282;-76.50185
11/10/2018 13:16								0.001	0.015	
11/10/2018 13:17								0.001	0.014	
11/10/2018 13:18								0.001	0.015	
11/10/2018 13:19								0.001	0.015	
11/10/2018 13:20	12.3	79						0.001	0.015	42.42821;-76.50191
11/10/2018 13:21								0.001	0.015	
11/10/2018 13:22								0.001	0.015	
11/10/2018 13:23								0.001	0.016	
11/10/2018 13:24								0.001	0.019	
11/10/2018 13:25	12.1	74.9						0.001	0.016	42.4282;-76.50187
11/10/2018 13:26								0.001	0.016	
11/10/2018 13:27								0.001	0.016	
11/10/2018 13:28								0.001	0.016	
11/10/2018 13:29								0.001	0.016	
11/10/2018 13:30	12.1	73.9						0.001	0.016	42.42818;-76.50183
11/10/2018 13:31								0.001	0.016	
11/10/2018 13:32								0.001	0.023	
11/10/2018 13:33								0.001	0.017	
11/10/2018 13:34								0.001	0.016	
11/10/2018 13:35	12	80						0.001	0.017	42.42818;-76.50185
11/10/2018 13:36								0.001	0.017	
11/10/2018 13:37								0.001	0.017	
11/10/2018 13:38								0.001	0.019	
11/10/2018 13:39								0.001	0.018	
11/10/2018 13:40	12.1	80						0.002	0.017	42.42819;-76.50185
11/10/2018 13:41								0.002	0.018	
11/10/2018 13:42								0.002	0.017	
11/10/2018 13:43								0.002	0.017	
11/10/2018 13:44								0.002	0.017	
11/10/2018 13:45	12.1	76.9						0.002	0.017	42.42819;-76.50179
11/10/2018 13:46								0.002	0.017	
11/10/2018 13:47								0.002	0.017	
11/10/2018 13:48								0.002	0.018	
11/10/2018 13:49								0.002	0.017	
11/10/2018 13:50	12.1	75.9						0.002	0.017	42.42818;-76.50181
11/10/2018 13:51								0.002	0.018	
11/10/2018 13:52								0.002	0.018	
11/10/2018 13:53								0.002	0.018	
11/10/2018 13:54								0.002	0.021	
11/10/2018 13:55	12.1	85						0.002	0.017	42.42822;-76.50182
11/10/2018 13:56								0.002	0.019	
11/10/2018 13:57								0.002	0.022	
11/10/2018 13:58								0.002	0.018	
11/10/2018 13:59								0.002	0.018	
11/10/2018 14:00	12.1	74.9						0.002	0.02	42.42819;-76.50183
11/10/2018 14:01								0.002	0.018	
11/10/2018 14:02								0.002	0.017	
11/10/2018 14:03								0.002	0.017	
11/10/2018 14:04								0.002	0.018	
11/10/2018 14:05	12.3	73.9						0.002	0.017	42.42819;-76.50179
11/10/2018 14:06								0.002	0.017	
11/10/2018 14:07								0.003	0.017	
11/10/2018 14:08								0.003	0.017	
11/10/2018 14:09								0.003	0.017	
11/10/2018 14:10	12.3	73.9						0.003	0.017	42.42823;-76.50176
11/10/2018 14:11								0.003	0.018	
11/10/2018 14:12								0.003	0.017	
11/10/2018 14:13								0.003	0.017	
11/10/2018 14:14								0.003	0.017	

Community Air Monitoring Program - Downwind Station
October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/10/2018 14:15	12.3	79						0.003	0.017	42.42823;-76.50179
11/10/2018 14:16								0.003	0.017	
11/10/2018 14:17								0.003	0.017	
11/10/2018 14:18								0.003	0.016	
11/10/2018 14:19								0.003	0.017	
11/10/2018 14:20	12.3	77.9						0.003	0.016	42.42819;-76.50179
11/10/2018 14:21								0.003	0.017	
11/10/2018 14:22								0.003	0.016	
11/10/2018 14:23								0.003	0.016	
11/10/2018 14:24								0.003	0.016	
11/10/2018 14:25	12.3	80						0.003	0.016	42.42819;-76.50172
11/10/2018 14:26								0.003	0.016	
11/10/2018 14:27								0.003	0.016	
11/10/2018 14:28								0.003	0.016	
11/10/2018 14:29								0.003	0.016	
11/10/2018 14:30	12.3	80						0.003	0.018	42.42823;-76.50171
11/10/2018 14:31								0.003	0.017	
11/10/2018 14:32								0.003	0.017	
11/10/2018 14:33								0.003	0.017	
11/10/2018 14:34								0.003	0.017	
11/10/2018 14:35	12.3	86						0.004	0.017	42.42823;-76.50171
11/10/2018 14:36								0.004	0.024	
11/10/2018 14:37								0.004	0.018	
11/10/2018 14:38								0.004	0.017	
11/10/2018 14:39								0.004	0.017	
11/10/2018 14:40	12.3	81						0.004	0.016	42.42818;-76.50175
11/10/2018 14:41								0.004	0.017	
11/10/2018 14:42								0.004	0.017	
11/10/2018 14:43								0.004	0.017	
11/10/2018 14:44								0.004	0.017	
11/10/2018 14:45	12.2	75.9						0.004	0.017	42.42807;-76.50178
11/10/2018 14:46								0.004	0.018	
11/10/2018 14:47								0.004	0.017	
11/10/2018 14:48								0.004	0.017	
11/10/2018 14:49								0.004	0.017	
11/10/2018 14:50	12.2	81						0.004	0.017	42.42805;-76.50182
11/10/2018 14:51								0.004	0.017	
11/10/2018 14:52								0.004	0.017	
11/10/2018 14:53								0.004	0.017	
11/10/2018 14:54								0.004	0.017	
11/10/2018 14:55	12.3	82						0.004	0.017	42.42824;-76.50175
11/10/2018 14:56								0.004	0.017	
11/10/2018 14:57								0.004	0.017	
11/10/2018 14:58								0.004	0.017	
11/10/2018 14:59								0.004	0.017	
11/10/2018 15:00	12.2	81						0.004	0.017	42.42818;-76.50177
11/10/2018 15:01								0.004	0.017	
11/10/2018 15:02								0.004	0.017	
11/10/2018 15:03								0.005	0.017	
11/10/2018 15:04								0.005	0.017	
11/10/2018 15:05	12.2	73.9						0.005	0.017	42.42821;-76.50175
11/10/2018 15:06								0.005	0.017	
11/10/2018 15:07								0.005	0.017	
11/10/2018 15:08								0.005	0.017	
11/10/2018 15:09								0.005	0.016	
11/10/2018 15:10	12.2	87						0.005	0.016	42.42816;-76.50177
11/10/2018 15:11								0.005	0.016	
11/10/2018 15:12								0.005	0.016	
11/10/2018 15:13			0	0.013	0.005	0	0.007	0.005	0.017	
11/10/2018 15:14			0	0.014	0.005	0	0.007	0.005	0.017	
11/10/2018 15:15	12.2	72.9	0	0.015	0.005	0	0.009	0.005	0.015	42.4281;-76.5018
11/10/2018 15:16			0	0.015	0.006	0	0.01	0.005	0.015	
11/10/2018 15:17			0	0.017	0.006	0	0.012	0.005	0.016	
11/10/2018 15:18			0	0.017	0.007	0	0.016	0.005	0.016	
11/10/2018 15:19			0	0.017	0.007	0	0.009	0.005	0.016	
11/10/2018 15:20	12.2	74.9	0	0.017	0.008	0	0.011	0.005	0.016	42.42814;-76.50179
11/10/2018 15:21			0	0.017	0.008	0	0.01	0.005	0.016	
11/10/2018 15:22			0	0.017	0.008	0	0.011	0.005	0.016	
11/10/2018 15:23			0	0.018	0.008	0	0.014	0.005	0.015	
11/10/2018 15:24			0	0.02	0.009	0	0.015	0.005	0.015	
11/10/2018 15:25	12.2	97.2	0	0.021	0.009	0	0.018	0.005	0.016	42.42814;-76.50175
11/10/2018 15:26			0	0.021	0.01	0	0.014	0.005	0.015	
11/10/2018 15:27			0	0.021	0.011	0	0.012	0.005	0.016	
11/10/2018 15:28			0	0.026	0.011	0	0.018	0.005	0.017	
11/10/2018 15:29			0	0.037	0.012	0	0.017	0.005	0.027	
11/10/2018 15:30	12.4	75.9	0	0.037	0.013	0	0.021	0.005	0.019	42.42749;-76.50074
11/10/2018 15:31			0	0.037	0.013	0	0.023	0.005	0.016	
11/10/2018 15:32			0	0.037	0.014	0	0.022	0.006	0.016	
11/10/2018 15:33			0	0.037	0.015	0	0.017	0.006	0.016	
11/10/2018 15:34			0	0.037	0.015	0	0.027	0.006	0.038	
11/10/2018 15:35	12.4	77.9	0	0.037	0.016	0	0.022	0.006	0.02	42.42774;-76.50076
11/10/2018 15:36			0	0.037	0.017	0	0.023	0.006	0.017	
11/10/2018 15:37			0	0.037	0.018	0	0.026	0.006	0.019	
11/10/2018 15:38			0	0.037	0.019	0	0.021	0.006	0.017	
11/10/2018 15:39			0	0.037	0.02	0.001	0.025	0.006	0.018	
11/10/2018 15:40	12.3	72.9	0	0.037	0.02	0.001	0.024	0.006	0.017	42.42778;-76.50081
11/10/2018 15:41			0	0.037	0.021	0.001	0.034	0.006	0.03	
11/10/2018 15:42			0	0.048	0.022	0.001	0.034	0.006	0.031	
11/10/2018 15:43			0	0.048	0.023	0.001	0.034	0.006	0.018	
11/10/2018 15:44			0	0.048	0.024	0.001	0.035	0.006	0.017	
11/10/2018 15:45	12.3	73.9	0	0.048	0.025	0.001	0.033	0.006	0.017	42.42772;-76.50077
11/10/2018 15:46			0	0.048	0.026	0.001	0.032	0.006	0.02	
11/10/2018 15:47			0	0.048	0.027	0.001	0.038	0.006	0.026	
11/10/2018 15:48			0	0.048	0.028	0.001	0.038	0.006	0.023	
11/10/2018 15:49			0	0.048	0.029	0.001	0.038	0.006	0.018	
11/10/2018 15:50	12.3	79	0	0.048	0.03	0.001	0.037	0.006	0.018	42.42772;-76.50074
11/10/2018 15:51			0	0.048	0.031	0.001	0.035	0.006	0.017	
11/10/2018 15:52			0	0.048	0.031	0.001	0.04	0.006	0.016	
11/10/2018 15:53			0	0.048	0.032	0.001	0.039	0.006	0.018	
11/10/2018 15:54			0	0.048	0.033	0.002	0.04	0.006	0.019	
11/10/2018 15:55	12.3	81	0	0.048	0.034	0.002	0.034	0.006	0.016	42.42776;-76.50079
11/10/2018 15:56			0	0.048	0.035	0.002	0.034	0.007	0.016	
11/10/2018 15:57			0	0.048	0.035	0.002	0.035	0.007	0.018	
11/10/2018 15:58			0	0.048	0.035	0.002	0.037	0.007	0.018	
11/10/2018 15:59			0	0.048	0.035	0.002	0.037	0.007	0.018	
11/10/2018 16:00	12.3	76.9	0	0.048	0.035	0.002	0.038	0.007	0.018	42.42772;-76.50074
11/10/2018 16:01			0	0.048	0.035	0.002	0.038	0.007	0.018	
11/10/2018 16:02			0	0.048	0.035	0.002	0.036	0.007	0.018	
11/10/2018 16:03			0	0.048	0.035	0.002	0.037	0.007	0.018	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/10/2018 16:04			0	0.048	0.035	0.002	0.037	0.007	0.02	
11/10/2018 16:05	12.3	82	0	0.048	0.035	0.002	0.039	0.007	0.018	42.42772;-76.50078
11/10/2018 16:06			0	0.048	0.035	0.002	0.036	0.007	0.019	
11/10/2018 16:07			0	0.048	0.035	0.003	0.04	0.007	0.019	
11/10/2018 16:08			0	0.048	0.035	0.003	0.038	0.007	0.018	
11/10/2018 16:09			0	0.048	0.035	0.003	0.036	0.007	0.021	
11/10/2018 16:10	12.3	84	0	0.048	0.035	0.003	0.038	0.007	0.021	42.42775;-76.50079
11/10/2018 16:11			0	0.048	0.036	0.003	0.04	0.007	0.018	
11/10/2018 16:12			0	0.048	0.036	0.003	0.04	0.007	0.018	
11/10/2018 16:13			0	0.048	0.036	0.003	0.032	0.007	0.017	
11/10/2018 16:14			0	0.048	0.036	0.003	0.037	0.007	0.017	
11/10/2018 16:15	12.3	73.9	0	0.048	0.036	0.003	0.038	0.007	0.017	42.42776;-76.50084
11/10/2018 16:16			0	0.048	0.036	0.003	0.039	0.007	0.017	
11/10/2018 16:17			0	0.048	0.036	0.003	0.036	0.007	0.018	
11/10/2018 16:18			0	0.048	0.036	0.003	0.035	0.007	0.018	
11/10/2018 16:19			0	0.048	0.036	0.003	0.039	0.007	0.018	
11/10/2018 16:20	12.3	73.9	0	0.048	0.036	0.004	0.045	0.007	0.018	42.42778;-76.50079
11/10/2018 16:21			0	0.048	0.037	0.004	0.038	0.007	0.017	
11/10/2018 16:22			0	0.048	0.037	0.004	0.036	0.007	0.017	
11/10/2018 16:23			0	0.048	0.037	0.004	0.042	0.008	0.017	
11/10/2018 16:24			0	0.048	0.037	0.004	0.039	0.008	0.017	
11/10/2018 16:25	12.3	101.2	0	0.048	0.037	0.004	0.04	0.008	0.018	42.42778;-76.50074
11/10/2018 16:26			0	0.048	0.037	0.004	0.04	0.008	0.018	
11/10/2018 16:27			0	0.048	0.037	0.004	0.031	0.008	0.018	
11/10/2018 16:28			0	0.048	0.037	0.004	0.035	0.008	0.018	
11/10/2018 16:29			0	0.048	0.037	0.004	0.035	0.008	0.018	
11/10/2018 16:30	12.3	74.9	0	0.048	0.037	0.004	0.039	0.008	0.018	42.42777;-76.50077
11/10/2018 16:31			0	0.048	0.037	0.004	0.039	0.008	0.018	
11/10/2018 16:32			0	0.048	0.037	0.004	0.039	0.008	0.018	
11/10/2018 16:33			0	0.048	0.037	0.005	0.035	0.008	0.018	
11/10/2018 16:34			0	0.048	0.037	0.005	0.037	0.008	0.018	
11/10/2018 16:35	12.2	79	0	0.048	0.036	0.005	0.039	0.008	0.018	42.42776;-76.50076
11/10/2018 16:36			0	0.048	0.036	0.005	0.043	0.008	0.019	
11/10/2018 16:37			0	0.048	0.036	0.005	0.038	0.008	0.019	
11/10/2018 16:38			0	0.049	0.036	0.005	0.039	0.008	0.03	
11/10/2018 16:39			0	0.049	0.036	0.005	0.042	0.008	0.022	
11/10/2018 16:40	12.2	72.9	0	0.049	0.036	0.005	0.034	0.008	0.019	42.42774;-76.50076
11/10/2018 16:41			0	0.049	0.036	0.005	0.036	0.008	0.019	
11/10/2018 16:42			0	0.049	0.036	0.005	0.034	0.008	0.019	
11/10/2018 16:43			0	0.049	0.036	0.005	0.036	0.008	0.02	
11/10/2018 16:44			0	0.049	0.036	0.005	0.033	0.008	0.019	
11/10/2018 16:45	12.2	89.1	0	0.049	0.036	0.005	0.035	0.008	0.018	42.42774;-76.50074
11/10/2018 16:46			0	0.049	0.036	0.006	0.037	0.008	0.018	
11/10/2018 16:47			0	0.049	0.036	0.006	0.037	0.008	0.019	
11/10/2018 16:48			0	0.049	0.036	0.006	0.036	0.009	0.019	
11/10/2018 16:49			0	0.049	0.035	0.006	0.031	0.009	0.019	
11/10/2018 16:50	12.2	74.9	0	0.049	0.035	0.006	0.035	0.009	0.019	42.42773;-76.50076
11/10/2018 16:51			0	0.049	0.035	0.006	0.036	0.009	0.019	
11/12/2018 14:46	12.8	97.2								
11/12/2018 14:47			0	0	0	0	0			
11/12/2018 14:48			0	0	0	0	0			
11/12/2018 14:49			0	0	0	0	0			
11/12/2018 14:50	12.7	80	0	0	0	0	0	0	0.016	
11/12/2018 14:50										42.42867;-76.50161
11/12/2018 14:51			0	0	0	0	0	0	0.026	
11/12/2018 14:52			0	0	0	0	0	0	0.024	
11/12/2018 14:53			0	0	0	0	0	0	0.023	
11/12/2018 14:54			0	0	0	0	0	0	0.022	
11/12/2018 14:55	12.6	72.9	0	0	0	0	0	0	0.022	
11/12/2018 14:55										42.42849;-76.50169
11/12/2018 14:56			0	0	0	0	0	0	0.021	
11/12/2018 14:57			0	0	0	0	0	0	0.022	
11/12/2018 14:58			0	0	0	0	0	0	0.021	
11/12/2018 14:59			0	0	0	0	0	0	0.022	
11/12/2018 15:00	12.7	76.9	0	0	0	0	0	0	0.021	
11/12/2018 15:00										42.42831;-76.50166
11/12/2018 15:01			0	0	0	0	0	0	0.021	
11/12/2018 15:02			0	0	0	0	0	0	0.021	
11/12/2018 15:03			0	0	0	0	0	0	0.021	
11/12/2018 15:04			0	0	0	0	0	0	0.021	
11/12/2018 15:05	12.6	72.9	0	0	0	0	0	0.001	0.02	
11/12/2018 15:05										42.42833;-76.50164
11/12/2018 15:06			0	0	0	0	0	0.001	0.02	
11/12/2018 15:07			0	0	0	0	0	0.001	0.022	
11/12/2018 15:08			0	0	0	0	0	0.001	0.022	
11/12/2018 15:09			0	0	0	0	0	0.001	0.021	
11/12/2018 15:10	12.6	70.9	0	0	0	0	0	0.001	0.022	
11/12/2018 15:10										42.42832;-76.50169
11/12/2018 15:11			0	0	0	0	0	0.001	0.023	
11/12/2018 15:12			0	0	0	0	0	0.001	0.022	
11/12/2018 15:13			0	0	0	0	0	0.001	0.024	
11/12/2018 15:14			0	0	0	0	0	0.001	0.022	
11/12/2018 15:15	12.6	70.9	0	0	0	0	0	0.001	0.02	
11/12/2018 15:15										42.42833;-76.50165
11/12/2018 15:16			0	0	0	0	0	0.001	0.019	
11/12/2018 15:17			0	0	0	0	0	0.001	0.019	
11/12/2018 15:18			0	0	0	0	0	0.001	0.02	
11/12/2018 15:19			0	0	0	0	0	0.001	0.02	
11/12/2018 15:20	12.6	71.9	0	0	0	0	0	0.001	0.019	
11/12/2018 15:20										42.42833;-76.50165
11/12/2018 15:21			0	0	0	0	0	0.001	0.033	
11/12/2018 15:22			0	0	0	0	0	0.001	0.019	
11/12/2018 15:23			0	0	0	0	0	0.001	0.018	
11/12/2018 15:24			0	0	0	0	0	0.002	0.018	
11/12/2018 15:25	12.6	76.9	0	0	0	0	0	0.002	0.018	
11/12/2018 15:25										42.4283;-76.50168
11/12/2018 15:26			0	0	0	0	0	0.002	0.018	
11/12/2018 15:27			0	0	0	0	0	0.002	0.018	
11/12/2018 15:28			0	0	0	0	0	0.002	0.018	
11/12/2018 15:29			0	0	0	0	0	0.002	0.018	
11/12/2018 15:30	12.6	75.9	0	0	0	0	0	0.002	0.018	
11/12/2018 15:30										42.42839;-76.50175
11/12/2018 15:31			0	0	0	0	0	0.002	0.018	
11/12/2018 15:32			0	0	0	0	0	0.002	0.018	
11/12/2018 15:33			0	0	0	0	0	0.002	0.018	
11/12/2018 15:34			0	0	0	0	0	0.002	0.018	
11/12/2018 15:35	12.6	72.9	0	0	0	0	0	0.002	0.018	
11/12/2018 15:35										42.42835;-76.5017
11/12/2018 15:36			0	0	0	0	0	0.002	0.018	

Community Air Monitoring Program - Downwind Station
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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/12/2018 15:37			0	0	0	0	0	0.002	0.019	
11/12/2018 15:38			0	0	0	0	0	0.002	0.019	
11/12/2018 15:39			0	0	0	0	0	0.002	0.018	
11/12/2018 15:40	12.6	83	0	0	0	0	0	0.002	0.158	
11/12/2018 15:40										42.42838;-76.50169
11/12/2018 15:41			0	0	0	0	0	0.003	0.06	
11/12/2018 15:42			0	0	0	0	0	0.003	0.027	
11/12/2018 15:43			0	0	0	0	0	0.003	0.019	
11/12/2018 15:44			0	0	0	0	0	0.003	0.018	
11/12/2018 15:45	12.6	71.9	0	0	0	0	0	0.003	0.019	
11/12/2018 15:45										42.42837;-76.50163
11/12/2018 15:46			0	0	0	0	0	0.003	0.019	
11/12/2018 15:47			0	0	0	0	0	0.003	0.019	
11/12/2018 15:48			0	0	0	0	0	0.003	0.024	
11/12/2018 15:49			0	0	0	0	0	0.003	0.019	
11/12/2018 15:50	12.6	70.9	0	0	0	0	0	0.003	0.018	
11/12/2018 15:50										42.42838;-76.50165
11/12/2018 15:51			0	0	0	0	0	0.003	0.018	
11/12/2018 15:52			0	0	0	0	0	0.003	0.017	
11/12/2018 15:53			0	0	0	0	0	0.003	0.017	
11/12/2018 15:54			0	0	0	0	0	0.003	0.018	
11/12/2018 15:55	12.6	71.9	0	0	0	0	0	0.003	0.018	
11/12/2018 15:55										42.42837;-76.50165
11/12/2018 15:56			0	0	0	0	0	0.003	0.019	
11/12/2018 15:57			0	0	0	0	0	0.003	0.017	
11/12/2018 15:58			0	0	0	0	0	0.003	0.017	
11/12/2018 15:59			0	0.001	0	0	0	0.003	0.017	
11/12/2018 16:00	12.5	71.9	0	0.001	0	0	0.001	0.003	0.017	
11/12/2018 16:00										42.42841;-76.50167
11/12/2018 16:01			0	0.002	0	0	0.002	0.003	0.017	
11/12/2018 16:02			0	0.006	0	0	0.006	0.003	0.017	
11/12/2018 16:03			0	0.013	0	0	0.013	0.003	0.017	
11/12/2018 16:04			0	0.013	0	0	0	0.003	0.019	
11/12/2018 16:05	12.6	75.9	0	0.013	0	0	0	0.003	0.018	
11/12/2018 16:05										42.42833;-76.5016
11/12/2018 16:06			0	0.013	0	0	0.003	0.004	0.017	
11/12/2018 16:07			0	0.013	0	0	0.002	0.004	0.018	
11/12/2018 16:08			0	0.013	0	0	0.005	0.004	0.017	
11/12/2018 16:09			0	0.013	0.001	0	0.008	0.004	0.018	
11/12/2018 16:10	12.7	82	0	0.013	0.001	0	0.004	0.004	0.018	
11/12/2018 16:10										42.4284;-76.50168
11/12/2018 16:11			0	0.013	0.001	0	0.01	0.004	0.018	
11/12/2018 16:12			0	0.013	0.002	0	0.01	0.004	0.017	
11/12/2018 16:13			0	0.014	0.003	0	0.01	0.004	0.017	
11/12/2018 16:14			0	0.014	0.003	0	0.011	0.004	0.017	
11/12/2018 16:15	12.6	71.9	0	0.014	0.004	0	0.01	0.004	0.017	
11/12/2018 16:15										42.42838;-76.5017
11/12/2018 16:16			0	0.016	0.004	0	0.015	0.004	0.017	
11/12/2018 16:17			0	0.016	0.005	0	0.015	0.004	0.018	
11/12/2018 16:18			0	0.017	0.006	0	0.015	0.004	0.018	
11/12/2018 16:19			0	0.02	0.006	0	0.018	0.004	0.016	
11/12/2018 16:20	12.6	73.9	0	0.02	0.008	0	0.016	0.004	0.017	
11/12/2018 16:20										42.42838;-76.50165
11/12/2018 16:21			0	0.02	0.009	0	0.017	0.004	0.017	
11/12/2018 16:22			0	0.022	0.01	0	0.016	0.004	0.017	
11/12/2018 16:23			0	0.022	0.01	0	0.02	0.004	0.018	
11/12/2018 16:24			0	0.022	0.012	0	0.022	0.004	0.017	
11/12/2018 16:25	12.6	72.9	0	0.026	0.012	0	0.02	0.004	0.016	
11/12/2018 16:25										42.42842;-76.50166
11/12/2018 16:26			0	0.028	0.013	0	0.026	0.004	0.016	
11/12/2018 16:27			0	0.03	0.015	0	0.029	0.004	0.016	
11/12/2018 16:28			0	0.034	0.016	0	0.032	0.004	0.016	
11/12/2018 16:29			0	0.034	0.017	0	0.032	0.004	0.016	
11/12/2018 16:30	12.6	74.9	0	0.034	0.018	0	0.029	0.004	0.016	
11/12/2018 16:30										42.42841;-76.50164
11/12/2018 16:31			0	0.035	0.02	0	0.034	0.004	0.015	
11/12/2018 16:32			0	0.037	0.021	0	0.036	0.004	0.015	
11/12/2018 16:33			0	0.038	0.023	0	0.034	0.004	0.016	
11/12/2018 16:34			0	0.038	0.024	0.001	0.035	0.004	0.016	
11/12/2018 16:35	12.6	86	0	0.039	0.025	0.001	0.037	0.005	0.015	
11/12/2018 16:35										42.42833;-76.50158
11/12/2018 16:36			0	0.04	0.027	0.001	0.039	0.005	0.015	
11/12/2018 16:37			0	0.046	0.028	0.001	0.046	0.005	0.015	
11/12/2018 16:38			0	0.046	0.03	0.001	0.042	0.005	0.016	
11/12/2018 16:39			0	0.047	0.031	0.001	0.044	0.005	0.016	
11/12/2018 16:40	12.6	72.9	0	0.048	0.033	0.001	0.045	0.005	0.015	
11/12/2018 16:40										42.42837;-76.50162
11/12/2018 16:41			0	0.048	0.034	0.001	0.044	0.005	0.015	
11/12/2018 16:42			0	0.049	0.036	0.001	0.046	0.005	0.015	
11/12/2018 16:43			0	0.052	0.037	0.001	0.052	0.005	0.015	
11/12/2018 16:44			0	0.052	0.038	0.001	0.05	0.005	0.015	
11/12/2018 16:45	12.6	83	0	0.057	0.039	0.001	0.052	0.005	0.015	
11/12/2018 16:45										42.42842;-76.50171
11/12/2018 16:46			0	0.057	0.041	0.002	0.053	0.005	0.017	
11/12/2018 16:47			0	0.057	0.042	0.002	0.053	0.005	0.015	
11/12/2018 16:48			0	0.058	0.043	0.002	0.054	0.005	0.015	
11/12/2018 16:49			0	0.058	0.045	0.002	0.055	0.005	0.016	
11/12/2018 16:50	12.6	77.9	0	0.058	0.046	0.002	0.052	0.005	0.015	
11/12/2018 16:50										42.42839;-76.50167
11/12/2018 16:51			0	0.058	0.047	0.002	0.056	0.005	0.014	
11/12/2018 16:52			0	0.061	0.048	0.002	0.057	0.005	0.014	
11/12/2018 16:53			0	0.061	0.049	0.002	0.058	0.005	0.014	
11/12/2018 16:54			0	0.062	0.05	0.002	0.062	0.005	0.014	
11/12/2018 16:55	12.6	72.9	0	0.064	0.051	0.003	0.059	0.005	0.017	
11/12/2018 16:55										42.42838;-76.50168
11/12/2018 16:56			0	0.064	0.052	0.003	0.061	0.005	0.025	
11/12/2018 16:57			0	0.064	0.053	0.003	0.058	0.005	0.017	
11/12/2018 16:58			0	0.064	0.054	0.003	0.059	0.005	0.021	
11/12/2018 16:59			0	0.064	0.055	0.003	0.062	0.005	0.014	
11/12/2018 17:00	12.6	72.9	0	0.064	0.056	0.003	0.059	0.005	0.014	
11/12/2018 17:00										42.42831;-76.50163
11/12/2018 17:01			0	0.064	0.056	0.003	0.061	0.005	0.014	
11/12/2018 17:02			0	0.066	0.057	0.003	0.062	0.005	0.014	
11/12/2018 17:03			0	0.067	0.058	0.004	0.062	0.005	0.014	
11/12/2018 17:04			0	0.067	0.058	0.004	0.062	0.005	0.014	
11/12/2018 17:05	12.6	70.9	0	0.067	0.059	0.004	0.064	0.005	0.014	
11/12/2018 17:05										42.42837;-76.50166
11/12/2018 17:06			0	0.067	0.059	0.004	0.061	0.006	0.015	
11/12/2018 17:07			0	0.067	0.06	0.004	0.065	0.006	0.015	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/12/2018 17:08			0	0.067	0.06	0.004	0.066	0.006	0.014	
11/12/2018 17:09			0	0.067	0.061	0.004	0.066	0.006	0.014	
11/12/2018 17:10	12.6	71.9	0	0.07	0.061	0.005	0.07	0.006	0.013	
11/12/2018 17:10										42.42847;-76.50172
11/12/2018 17:11			0	0.072	0.062	0.005	0.071	0.006	0.014	
11/12/2018 17:12			0	0.072	0.062	0.005	0.071	0.006	0.013	
11/12/2018 17:13			0	0.072	0.063	0.005	0.068	0.006	0.013	
11/12/2018 17:14			0	0.075	0.064	0.005	0.07	0.006	0.015	
11/12/2018 17:15	12.6	71.9	0	0.075	0.064	0.005	0.073	0.006	0.014	
11/12/2018 17:15										42.42835;-76.50172
11/12/2018 17:16			0	0.075	0.065	0.005	0.071	0.006	0.014	
11/12/2018 17:17			0	0.075	0.065	0.006	0.069	0.006	0.013	
11/12/2018 17:18			0	0.075	0.066	0.006	0.071	0.006	0.014	
11/12/2018 17:19			0	0.075	0.066	0.006	0.072	0.006	0.015	
11/12/2018 17:20	12.6	96.2	0	0.077	0.067	0.006	0.07	0.006	0.014	
11/12/2018 17:20										42.42833;-76.50169
11/12/2018 17:21			0	0.077	0.068	0.006	0.072	0.006	0.014	
11/12/2018 17:22			0	0.077	0.068	0.006	0.068	0.006	0.014	
11/12/2018 17:23			0	0.077	0.069	0.006	0.073	0.006	0.013	
11/12/2018 17:24			0	0.077	0.069	0.007	0.074	0.006	0.014	
11/12/2018 17:25	12.6	72.9	0	0.078	0.07	0.007	0.078	0.006	0.014	
11/12/2018 17:25										42.42838;-76.50165
11/12/2018 17:26			0	0.078	0.07	0.007	0.074	0.006	0.014	
11/12/2018 17:27			0	0.079	0.07	0.007	0.079	0.006	0.013	
11/12/2018 17:28			0	0.08	0.071	0.007	0.075	0.006	0.013	
11/12/2018 17:29			0	0.08	0.071	0.007	0.075	0.006	0.013	
11/12/2018 17:30	12.5	75.9	0	0.08	0.072	0.008	0.077	0.006	0.013	
11/12/2018 17:30										42.42839;-76.50163
11/12/2018 17:31			0	0.083	0.072	0.008	0.08	0.006	0.013	
11/12/2018 17:32			0	0.083	0.072	0.008	0.076	0.006	0.013	
11/12/2018 17:33			0	0.083	0.073	0.008	0.077	0.006	0.013	
11/12/2018 17:34			0	0.085	0.074	0.008	0.079	0.006	0.013	
11/12/2018 17:35	12.5	86	0	0.086	0.074	0.008	0.082	0.006	0.013	
11/12/2018 17:35										42.42841;-76.50168
11/12/2018 17:36			0	0.086	0.075	0.008	0.084	0.006	0.013	
11/12/2018 17:37			0	0.087	0.076	0.009	0.084	0.006	0.013	
11/12/2018 17:38			0	0.087	0.077	0.009	0.086	0.006	0.013	
11/12/2018 17:39			0	0.087	0.077	0.009	0.082	0.006	0.013	
11/12/2018 17:40	12.5	71.9	0	0.087	0.078	0.009	0.084	0.006	0.013	
11/12/2018 17:40										42.42846;-76.50161
11/12/2018 17:41			0	0.087	0.079	0.009	0.085	0.006	0.013	
11/12/2018 17:42			0	0.087	0.079	0.01	0.087	0.007	0.013	
11/12/2018 17:43			0	0.089	0.08	0.01	0.087	0.007	0.013	
11/12/2018 17:44			0	0.09	0.081	0.01	0.087	0.007	0.013	
11/12/2018 17:45	12.5	71.9	0	0.092	0.082	0.01	0.092	0.007	0.013	
11/12/2018 17:45										42.42842;-76.50165
11/12/2018 17:46			0	0.094	0.083	0.01	0.092	0.007	0.012	
11/12/2018 17:47			0	0.096	0.083	0.01	0.093	0.007	0.012	
11/12/2018 17:48			0	0.097	0.085	0.011	0.095	0.007	0.012	
11/12/2018 17:49			0	0.098	0.086	0.011	0.096	0.007	0.012	
11/12/2018 17:50	12.5	71.9	0	0.098	0.087	0.011	0.093	0.007	0.012	
11/12/2018 17:50										42.42839;-76.50161
11/12/2018 17:51			0	0.098	0.087	0.011	0.094	0.007	0.012	
11/12/2018 17:52			0	0.098	0.088	0.011	0.093	0.007	0.012	
11/12/2018 17:53			0	0.099	0.089	0.012	0.097	0.007	0.012	
11/12/2018 17:54			0	0.099	0.09	0.012	0.099	0.007	0.012	
11/12/2018 17:55	12.5	71.9	0	0.099	0.091	0.012	0.097	0.007	0.012	
11/12/2018 17:55										42.42844;-76.50166
11/12/2018 17:56			0	0.099	0.092	0.012	0.097	0.007	0.012	
11/12/2018 17:57			0	0.102	0.092	0.012	0.097	0.007	0.012	
11/12/2018 17:58			0	0.102	0.093	0.013	0.098	0.007	0.012	
11/12/2018 17:59			0	0.105	0.094	0.013	0.103	0.007	0.012	
11/12/2018 18:00	12.5	73.9	0	0.105	0.095	0.013	0.101	0.007	0.012	
11/12/2018 18:00										42.42837;-76.50162
11/12/2018 18:01			0	0.105	0.096	0.013	0.104	0.007	0.012	
11/12/2018 18:02			0	0.105	0.096	0.013	0.102	0.007	0.012	
11/12/2018 18:03			0	0.107	0.097	0.014	0.106	0.007	0.012	
11/12/2018 18:04			0	0.108	0.098	0.014	0.103	0.007	0.012	
11/12/2018 18:05	12.5	72.9	0	0.108	0.098	0.014	0.106	0.007	0.012	
11/12/2018 18:05										42.42838;-76.50159
11/12/2018 18:06			0	0.109	0.099	0.014	0.104	0.007	0.012	
11/12/2018 18:07			0	0.109	0.1	0.015	0.106	0.007	0.012	
11/12/2018 18:08			0	0.11	0.101	0.015	0.106	0.007	0.012	
11/12/2018 18:09			0	0.11	0.101	0.015	0.107	0.007	0.012	
11/12/2018 18:10	12.5	74.9	0	0.11	0.102	0.015	0.104	0.007	0.012	
11/12/2018 18:10										42.4284;-76.50163
11/12/2018 18:11			0	0.11	0.102	0.015	0.106	0.007	0.012	
11/12/2018 18:12			0	0.11	0.103	0.016	0.107	0.007	0.012	
11/12/2018 18:13			0	0.11	0.103	0.016	0.104	0.007	0.012	
11/12/2018 18:14			0	0.11	0.104	0.016	0.105	0.007	0.013	
11/12/2018 18:15	12.5	76.9	0	0.11	0.104	0.016	0.105	0.007	0.014	
11/12/2018 18:15										42.42839;-76.50166
11/12/2018 18:16			0	0.11	0.104	0.017	0.108	0.007	0.012	
11/12/2018 18:17			0	0.11	0.104	0.017	0.105	0.007	0.012	
11/12/2018 18:18			0	0.11	0.104	0.017	0.106	0.007	0.013	
11/12/2018 18:19			0	0.11	0.104	0.017	0.101	0.007	0.012	
11/12/2018 18:20	12.5	82	0	0.11	0.104	0.017	0.105	0.007	0.013	
11/12/2018 18:20										42.4284;-76.50168
11/12/2018 18:21			0	0.11	0.104	0.018	0.102	0.008	0.013	
11/12/2018 18:22			0	0.11	0.104	0.018	0.102	0.008	0.015	
11/12/2018 18:23			0	0.11	0.104	0.018	0.104	0.008	0.014	
11/12/2018 18:24			0	0.11	0.104	0.018	0.105	0.008	0.156	
11/12/2018 18:25	12.5	79	0	0.11	0.103	0.018	0.102	0.008	0.044	
11/12/2018 18:25										42.42847;-76.50169
11/12/2018 18:26			0	0.11	0.103	0.019	0.103	0.008	0.018	
11/12/2018 18:27			0	0.11	0.103	0.019	0.104	0.008	0.019	
11/12/2018 18:28			0	0.11	0.103	0.019	0.103	0.008	0.018	
11/12/2018 18:29			0	0.11	0.103	0.019	0.105	0.008	0.014	
11/12/2018 18:30	12.5	76.9	0	0.11	0.103	0.02	0.107	0.008	0.012	
11/12/2018 18:30										42.42838;-76.50162
11/12/2018 18:31			0	0.11	0.103	0.02	0.103	0.008	0.011	
11/12/2018 18:32			0	0.11	0.103	0.02	0.102	0.008	0.012	
11/12/2018 18:33			0	0.11	0.103	0.02	0.103	0.008	0.012	
11/12/2018 18:34			0	0.11	0.102	0.02	0.105	0.008	0.013	
11/12/2018 18:35	12.5	71.9	0	0.11	0.103	0.021	0.105	0.008	0.014	
11/12/2018 18:35										42.42835;-76.50166
11/12/2018 18:36			0	0.11	0.103	0.021	0.105	0.008	0.013	
11/12/2018 18:37			0	0.11	0.103	0.021	0.106	0.008	0.013	
11/12/2018 18:38			0	0.11	0.103	0.021	0.105	0.008	0.013	

Community Air Monitoring Program - Downwind Station
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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/12/2018 18:39			0	0.11	0.103	0.021	0.102	0.008	0.012	
11/12/2018 18:40	12.4	74.9	0	0.11	0.103	0.022	0.102	0.008	0.013	
11/12/2018 18:40										42.42836;-76.50161
11/12/2018 18:41			0	0.11	0.103	0.022	0.103	0.008	0.012	
11/12/2018 18:42			0	0.11	0.103	0.022	0.104	0.008	0.011	
11/12/2018 18:43			0	0.11	0.103	0.022	0.098	0.009	0.012	
11/12/2018 18:44			0	0.11	0.103	0.023	0.1	0.009	0.012	
11/12/2018 18:45	12.4	72.9	0	0.11	0.103	0.023	0.1	0.009	0.012	
11/12/2018 18:45										42.42835;-76.5016
11/12/2018 18:46			0	0.11	0.103	0.023	0.103	0.009	0.012	
11/12/2018 18:47			0	0.11	0.102	0.023	0.103	0.009	0.011	
11/12/2018 18:48			0	0.11	0.102	0.023	0.102	0.009	0.011	
11/12/2018 18:49			0	0.113	0.102	0.024	0.109	0.009	0.013	
11/12/2018 18:50	12.4	86	0	0.113	0.103	0.024	0.104	0.009	0.013	
11/12/2018 18:50										42.42837;-76.50163
11/12/2018 18:51			0	0.113	0.102	0.024	0.105	0.009	0.012	
11/12/2018 18:52			0	0.113	0.102	0.024	0.1	0.009	0.012	
11/12/2018 18:53			0	0.113	0.102	0.024	0.106	0.009	0.045	
11/12/2018 18:54			0	0.113	0.102	0.025	0.104	0.009	0.013	
11/12/2018 18:55	12.4	84	0	0.113	0.102	0.025	0.107	0.009	0.013	
11/12/2018 18:55										42.42835;-76.50165
11/12/2018 18:56			0	0.113	0.102	0.025	0.101	0.009	0.012	
11/12/2018 18:57			0	0.113	0.103	0.025	0.108	0.009	0.012	
11/12/2018 18:58			0	0.113	0.103	0.026	0.099	0.009	0.012	
11/12/2018 18:59			0	0.113	0.103	0.026	0.101	0.009	0.012	
11/12/2018 19:00	12.4	85	0	0.115	0.103	0.026	0.102	0.009	0.011	
11/12/2018 19:00										42.42831;-76.50166
11/12/2018 19:01			0	0.115	0.103	0.026	0.104	0.009	0.011	
11/12/2018 19:02			0	0.115	0.103	0.026	0.102	0.009	0.011	
11/12/2018 19:03			0	0.115	0.103	0.027	0.105	0.009	0.011	
11/12/2018 19:04			0	0.115	0.103	0.027	0.107	0.009	0.011	
11/12/2018 19:05	12.4	71.9	0	0.115	0.102	0.027	0.092	0.009	0.011	
11/12/2018 19:05										42.42833;-76.50162
11/12/2018 19:06			0	0.115	0.102	0.027	0.089	0.009	0.011	
11/12/2018 19:07			0	0.115	0.102	0.027	0.096	0.009	0.011	
11/12/2018 19:08			0	0.115	0.101	0.028	0.094	0.009	0.011	
11/12/2018 19:09			0	0.115	0.101	0.028	0.095	0.009	0.011	
11/12/2018 19:10	12.4	73.9	0	0.115	0.1	0.028	0.097	0.009	0.011	
11/12/2018 19:10										42.42834;-76.50164
11/12/2018 19:11			0	0.115	0.099	0.028	0.097	0.009	0.011	
11/12/2018 19:12			0	0.115	0.099	0.028	0.094	0.009	0.011	
11/12/2018 19:13			0	0.115	0.098	0.029	0.097	0.009	0.011	
11/12/2018 19:14			0	0.115	0.098	0.029	0.095	0.009	0.011	
11/12/2018 19:15	12.4	82	0	0.115	0.097	0.029	0.1	0.009	0.011	
11/12/2018 19:15										42.42824;-76.50163
11/12/2018 19:16			0	0.115	0.096	0.029	0.097	0.009	0.011	
11/12/2018 19:17			0	0.115	0.096	0.029	0.092	0.009	0.012	
11/12/2018 19:18			0	0.115	0.096	0.03	0.091	0.009	0.012	
11/12/2018 19:19			0	0.115	0.096	0.03	0.093	0.009	0.013	
11/12/2018 19:20	12.4	72.9	0	0.115	0.095	0.03	0.102	0.009	0.011	
11/12/2018 19:20										42.4283;-76.50168
11/12/2018 19:21			0	0.115	0.095	0.03	0.108	0.009	0.011	
11/12/2018 19:22			0	0.115	0.096	0.03	0.107	0.01	0.011	
11/12/2018 19:23			0	0.115	0.096	0.031	0.102	0.01	0.011	
11/12/2018 19:24			0	0.115	0.096	0.031	0.107	0.01	0.012	
11/12/2018 19:25	12.4	74.9	0	0.115	0.097	0.031	0.103	0.01	0.012	
11/12/2018 19:25										42.42831;-76.50166
11/12/2018 19:26			0	0.115	0.098	0.031	0.1	0.01	0.011	
11/12/2018 19:27			0	0.115	0.098	0.032	0.103	0.01	0.011	
11/12/2018 19:28			0	0.115	0.099	0.032	0.102	0.01	0.011	
11/12/2018 19:29			0	0.115	0.099	0.032	0.102	0.01	0.011	
11/12/2018 19:30	12.4	81	0	0.115	0.099	0.032	0.102	0.01	0.011	
11/12/2018 19:30										42.42826;-76.50157
11/12/2018 19:31			0	0.115	0.1	0.032	0.103	0.01	0.011	
11/12/2018 19:32			0	0.115	0.1	0.033	0.106	0.01	0.011	
11/12/2018 19:33			0	0.115	0.101	0.033	0.107	0.01	0.012	
11/12/2018 19:34			0	0.115	0.102	0.033	0.108	0.01	0.012	
11/12/2018 19:35	12.4	73.9	0	0.115	0.102	0.033	0.106	0.01	0.012	
11/12/2018 19:35										42.42837;-76.50163
11/12/2018 19:36			0	0.115	0.103	0.033	0.105	0.01	0.012	
11/12/2018 19:37			0	0.115	0.103	0.034	0.101	0.01	0.011	
11/12/2018 19:38			0	0.115	0.103	0.034	0.097	0.01	0.013	
11/12/2018 19:39			0	0.115	0.103	0.034	0.107	0.01	0.011	
11/12/2018 19:40	12.4	72.9	0	0.115	0.103	0.034	0.099	0.01	0.011	
11/12/2018 19:40										42.42831;-76.50164
11/12/2018 19:41			0	0.115	0.103	0.035	0.097	0.01	0.011	
11/12/2018 19:42			0	0.115	0.103	0.035	0.102	0.01	0.011	
11/12/2018 19:43			0	0.115	0.103	0.035	0.091	0.01	0.011	
11/12/2018 19:44			0	0.115	0.102	0.035	0.09	0.01	0.011	
11/12/2018 19:45	12.4	76.9	0	0.115	0.101	0.035	0.091	0.01	0.011	
11/12/2018 19:45										42.42836;-76.50173
11/12/2018 19:46			0	0.115	0.101	0.036	0.09	0.01	0.011	
11/12/2018 19:47			0	0.115	0.1	0.036	0.102	0.01	0.011	
11/12/2018 19:48			0	0.115	0.099	0.036	0.102	0.01	0.011	
11/12/2018 19:49			0	0.115	0.098	0.036	0.104	0.01	0.011	
11/12/2018 19:50	12.4	74.9	0	0.115	0.098	0.036	0.098	0.01	0.011	
11/12/2018 19:50										42.42833;-76.50166
11/12/2018 19:51			0	0.115	0.098	0.037	0.101	0.01	0.011	
11/12/2018 19:52			0	0.115	0.097	0.037	0.102	0.01	0.011	
11/12/2018 19:53			0	0.115	0.097	0.037	0.103	0.01	0.011	
11/12/2018 19:54			0	0.115	0.097	0.037	0.102	0.01	0.011	
11/12/2018 19:55	12.4	76.9	0	0.115	0.097	0.037	0.103	0.01	0.011	
11/12/2018 19:55										42.42834;-76.50163
11/12/2018 19:56			0	0.115	0.097	0.038	0.104	0.01	0.011	
11/12/2018 19:57			0	0.115	0.097	0.038	0.106	0.01	0.011	
11/12/2018 19:58			0	0.115	0.097	0.038	0.1	0.01	0.011	
11/12/2018 19:59			0	0.115	0.098	0.038	0.098	0.01	0.011	
11/12/2018 20:00	12.4	73.9	0	0.115	0.099	0.038	0.1	0.01	0.011	
11/12/2018 20:00										42.42833;-76.50169
11/12/2018 20:01			0	0.115	0.099	0.039	0.102	0.01	0.011	
11/12/2018 20:02			0	0.115	0.1	0.039	0.103	0.01	0.011	
11/12/2018 20:03			0	0.115	0.1	0.039	0.103	0.01	0.011	
11/12/2018 20:04			0	0.115	0.101	0.039	0.1	0.01	0.011	
11/12/2018 20:05	12.4	73.9	0	0.115	0.101	0.039	0.097	0.011	0.011	
11/12/2018 20:05										42.42833;-76.50167
11/12/2018 20:06			0	0.115	0.101	0.04	0.104	0.011	0.012	
11/12/2018 20:07			0	0.115	0.101	0.04	0.103	0.011	0.012	
11/12/2018 20:08			0	0.115	0.101	0.04	0.104	0.011	0.012	
11/12/2018 20:09			0	0.115	0.101	0.04	0.102	0.011	0.012	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/12/2018 20:10	12.4	79	0	0.115	0.101	0.041	0.098	0.011	0.012	
11/12/2018 20:10										42.42837;-76.50169
11/12/2018 20:11			0	0.115	0.101	0.041	0.1	0.011	0.012	
11/12/2018 20:12			0	0.115	0.101	0.041	0.102	0.011	0.012	
11/12/2018 20:13			0	0.115	0.101	0.041	0.1	0.011	0.012	
11/12/2018 20:14			0	0.115	0.1	0.041	0.093	0.011	0.013	
11/12/2018 20:15	12.3	83	0	0.115	0.1	0.042	0.098	0.011	0.012	
11/12/2018 20:15										42.42834;-76.50165
11/12/2018 20:16			0	0.115	0.1	0.042	0.101	0.011	0.013	
11/12/2018 20:17			0	0.115	0.1	0.042	0.097	0.011	0.013	
11/12/2018 20:18			0	0.115	0.1	0.042	0.1	0.011	0.013	
11/12/2018 20:19			0	0.115	0.099	0.042	0.102	0.011	0.013	
11/12/2018 20:20	12.3	76.9	0	0.115	0.099	0.043	0.096	0.011	0.013	
11/12/2018 20:20										42.42832;-76.50169
11/12/2018 20:21			0	0.115	0.099	0.043	0.091	0.011	0.013	
11/12/2018 20:22			0	0.115	0.099	0.043	0.09	0.011	0.012	
11/12/2018 20:23			0	0.115	0.098	0.043	0.097	0.011	0.012	
11/12/2018 20:24			0	0.115	0.098	0.043	0.095	0.011	0.012	
11/12/2018 20:25	12.3	72.9	0	0.115	0.098	0.044	0.094	0.011	0.013	
11/12/2018 20:25										42.42828;-76.50169
11/12/2018 20:26			0	0.115	0.097	0.044	0.086	0.011	0.016	
11/12/2018 20:27			0	0.115	0.096	0.044	0.087	0.011	0.012	
11/12/2018 20:28			0	0.115	0.095	0.044	0.085	0.011	0.012	
11/12/2018 20:29			0	0.115	0.095	0.044	0.088	0.011	0.012	
11/12/2018 20:30	12.3	77.9	0	0.115	0.094	0.045	0.083	0.011	0.013	
11/12/2018 20:30										42.42832;-76.50174
11/12/2018 20:31			0	0.115	0.093	0.045	0.086	0.011	0.013	
11/12/2018 20:32			0	0.115	0.092	0.045	0.092	0.011	0.013	
11/12/2018 20:33			0	0.115	0.091	0.045	0.098	0.011	0.013	
11/12/2018 20:34			0	0.115	0.091	0.045	0.09	0.011	0.013	
11/12/2018 20:35	12.3	82	0	0.115	0.091	0.045	0.098	0.011	0.012	
11/12/2018 20:35										42.42823;-76.50168
11/12/2018 20:36			0	0.115	0.091	0.046	0.091	0.011	0.013	
11/12/2018 20:37			0	0.115	0.091	0.046	0.096	0.011	0.013	
11/12/2018 20:38			0	0.115	0.091	0.046	0.098	0.011	0.012	
11/12/2018 20:39			0	0.115	0.091	0.046	0.099	0.011	0.013	
11/12/2018 20:40	12.3	75.9	0	0.115	0.091	0.046	0.097	0.011	0.013	
11/12/2018 20:40										42.42828;-76.50173
11/12/2018 20:41			0	0.115	0.091	0.047	0.099	0.011	0.012	
11/12/2018 20:42			0	0.115	0.092	0.047	0.092	0.011	0.012	
11/12/2018 20:43			0	0.115	0.092	0.047	0.098	0.012	0.012	
11/12/2018 20:44			0	0.115	0.093	0.047	0.1	0.012	0.016	
11/12/2018 20:45	12.5	70.9							0.048	
11/12/2018 20:45										42.42809;-76.50185
11/12/2018 20:50	12.4	76.9								
11/12/2018 20:50										42.43272;-76.49702
11/13/2018 14:17	12.7	96.2								
11/13/2018 14:18			0	0	0	0	0			42.4342049;-76.49645679999999
11/13/2018 14:19			0	0	0	0	0			
11/13/2018 14:20	12.6	83	0	0	0	0	0	0	0.039	42.43387;-76.4962
11/13/2018 14:21			0	0	0	0	0	0	0.043	
11/13/2018 14:22			0	0	0	0	0	0	0.041	
11/13/2018 14:23			0	0	0	0	0	0	0.041	
11/13/2018 14:24			0	0	0	0	0	0	0.04	
11/13/2018 14:25	12.6	72.9	0	0	0	0	0	0	0.039	42.43376;-76.49632
11/13/2018 14:26			0	0	0	0	0	0	0.039	
11/13/2018 14:27			0	0	0	0	0	0	0.039	
11/13/2018 14:28			0	0	0	0	0	0	0.039	
11/13/2018 14:29			0	0	0	0	0	0	0.037	
11/13/2018 14:30	12.6	82	0	0	0	0	0	0	0.036	42.4336;-76.49622
11/13/2018 14:31			0	0	0	0	0	0	0.036	
11/13/2018 14:32			0	0	0	0	0	0	0.037	
11/13/2018 14:33			0	0	0	0	0	0	0.038	
11/13/2018 14:34			0	0	0	0	0	0	0.039	
11/13/2018 14:35	12.6	72.9	0	0	0	0	0	0.001	0.039	42.43421;-76.49577
11/13/2018 14:36			0	0	0	0	0	0.001	0.04	
11/13/2018 14:37			0	0	0	0	0	0.001	0.042	
11/13/2018 14:38			0	0	0	0	0	0.002	0.041	
11/13/2018 14:39			0	0	0	0	0	0.002	0.041	
11/13/2018 14:40	12.6	83	0	0	0	0	0	0.002	0.041	42.43365;-76.49628
11/13/2018 14:41			0	0	0	0	0	0.002	0.04	
11/13/2018 14:42			0	0	0	0	0	0.002	0.04	
11/13/2018 14:43			0	0	0	0	0	0.002	0.039	
11/13/2018 14:44			0	0	0	0	0	0.002	0.038	
11/13/2018 14:45	12.6	73.9	0	0	0	0	0	0.002	0.037	42.43357;-76.49634
11/13/2018 14:46			0	0	0	0	0	0.002	0.037	
11/13/2018 14:47			0	0	0	0	0	0.002	0.036	
11/13/2018 14:48			0	0	0	0	0	0.002	0.034	
11/13/2018 14:49			0	0	0	0	0	0.002	0.034	
11/13/2018 14:50	12.6	76.9	0	0	0	0	0	0.002	0.033	42.43365;-76.49636
11/13/2018 14:51			0	0	0	0	0	0.003	0.032	
11/13/2018 14:52			0	0	0	0	0	0.003	0.03	
11/13/2018 14:53			0	0	0	0	0	0.003	0.03	
11/13/2018 14:54			0	0	0	0	0	0.003	0.032	
11/13/2018 14:55	12.6	71.9	0	0	0	0	0	0.003	0.032	42.43368;-76.49626
11/13/2018 14:56			0	0	0	0	0	0.003	0.027	
11/13/2018 14:57			0	0	0	0	0	0.003	0.025	
11/13/2018 14:58			0	0	0	0	0	0.003	0.022	
11/13/2018 14:59			0	0	0	0	0	0.003	0.02	
11/13/2018 15:00	12.6	71.9	0	0	0	0	0	0.003	0.019	42.43371;-76.49625
11/13/2018 15:01			0	0	0	0	0	0.003	0.018	
11/13/2018 15:02			0	0	0	0	0	0.003	0.019	
11/13/2018 15:03			0	0	0	0	0	0.003	0.019	
11/13/2018 15:04			0	0	0	0	0	0.003	0.018	
11/13/2018 15:05	12.5	74.9	0	0	0	0	0	0.003	0.018	42.43371;-76.49629
11/13/2018 15:06			0	0	0	0	0	0.003	0.018	
11/13/2018 15:07			0	0	0	0	0	0.003	0.017	
11/13/2018 15:08			0	0	0	0	0	0.003	0.017	
11/13/2018 15:09			0	0	0	0	0	0.003	0.019	
11/13/2018 15:10	12.5	72.9	0	0	0	0	0	0.003	0.019	42.43365;-76.49628
11/13/2018 15:11			0	0	0	0	0	0.003	0.018	
11/13/2018 15:12			0	0	0	0	0	0.003	0.018	
11/13/2018 15:13			0	0	0	0	0	0.003	0.018	
11/13/2018 15:14			0	0	0	0	0	0.004	0.018	
11/13/2018 15:15	12.5	71.9	0	0	0	0	0	0.004	0.02	42.43374;-76.49625
11/13/2018 15:16			0	0	0	0	0	0.004	0.021	
11/13/2018 15:17			0	0	0	0	0	0.004	0.022	
11/13/2018 15:18			0	0	0	0	0	0.004	0.019	
11/13/2018 15:19			0	0	0	0	0	0.004	0.02	

Community Air Monitoring Program - Downwind Station
October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/13/2018 15:20	12.5	77.9	0	0	0	0	0	0.004	0.019	42.43373;-76.49632
11/13/2018 15:21			0	0	0	0	0	0.004	0.018	
11/13/2018 15:22			0	0	0	0	0	0.004	0.019	
11/13/2018 15:23			0	0	0	0	0	0.004	0.019	
11/13/2018 15:24			0	0	0	0	0	0.004	0.019	
11/13/2018 15:25	12.5	73.9	0	0	0	0	0	0.004	0.019	42.43379;-76.49632
11/13/2018 15:26			0	0	0	0	0	0.004	0.019	
11/13/2018 15:27			0	0	0	0	0	0.004	0.02	
11/13/2018 15:28			0	0	0	0	0	0.004	0.021	
11/13/2018 15:29			0	0	0	0	0	0.004	0.021	
11/13/2018 15:30	12.5	81	0	0	0	0	0	0.004	0.021	42.43373;-76.49633
11/13/2018 15:31			0	0	0	0	0	0.004	0.02	
11/13/2018 15:32			0	0	0	0	0	0.004	0.02	
11/13/2018 15:33			0	0	0	0	0	0.004	0.021	
11/13/2018 15:34			0	0	0	0	0	0.004	0.02	
11/13/2018 15:35	12.5	71.9	0	0	0	0	0	0.004	0.021	42.43377;-76.4963
11/13/2018 15:36			0	0	0	0	0	0.004	0.021	
11/13/2018 15:37			0	0	0	0	0	0.004	0.021	
11/13/2018 15:38			0	0	0	0	0	0.005	0.021	
11/13/2018 15:39			0	0	0	0	0	0.005	0.022	
11/13/2018 15:40	12.5	71.9	0	0	0	0	0	0.005	0.022	42.43377;-76.49632
11/13/2018 15:41			0	0	0	0	0	0.005	0.022	
11/13/2018 15:42			0	0	0	0	0	0.005	0.022	
11/13/2018 15:43			0	0	0	0	0	0.005	0.022	
11/13/2018 15:44			0	0	0	0	0	0.005	0.022	
11/13/2018 15:45	12.5	71.9	0	11.691	0	0	11.691	0.005	0.022	42.4338;-76.49638
11/13/2018 15:46			0	17.934	0.523	0.016	2.988	0.005	0.025	
11/13/2018 15:47			0	17.934	0.828	0.025	3.822	0.005	0.024	
11/13/2018 15:48			0	17.934	1.075	0.033	1.378	0.005	0.025	
11/13/2018 15:49			0	17.934	1.292	0.04	2.519	0.005	0.024	
11/13/2018 15:50	12.5	73.9	0	17.934	1.41	0.044	0.863	0.005	0.025	42.43376;-76.49634
11/13/2018 15:51			0	17.934	1.435	0.044	0.022	0.005	0.024	
11/13/2018 15:52			0	17.934	1.435	0.044	0	0.005	0.023	
11/13/2018 15:53			0	17.934	1.435	0.044	0	0.005	0.023	
11/13/2018 15:54			0	17.934	1.435	0.044	0	0.005	0.023	
11/13/2018 15:55	12.5	72.9	0	17.934	1.435	0.044	0	0.005	0.023	42.43378;-76.49633
11/13/2018 15:56			0	17.934	1.436	0.044	0.564	0.005	0.024	
11/13/2018 15:57			0	17.934	1.45	0.045	0.243	0.005	0.025	
11/13/2018 15:58			0	17.934	1.453	0.045	0.004	0.006	0.025	
11/13/2018 15:59			0	17.934	1.453	0.045	0	0.006	0.024	
11/13/2018 16:00	12.5	72.9	0	17.934	1.464	0.045	0.254	0.006	0.027	42.43379;-76.49633
11/13/2018 16:01			0	17.934	0.947	0.045	0.031	0.006	0.026	
11/13/2018 16:02			0	17.934	0.643	0.046	0	0.006	0.026	
11/13/2018 16:03			0	17.934	0.398	0.046	0.025	0.006	0.027	
11/13/2018 16:04			0	17.934	0.181	0.046	0	0.006	0.027	
11/13/2018 16:05	12.5	76.9	0	17.934	0.063	0.046	0	0.006	0.026	42.43378;-76.49627
11/13/2018 16:06			0	17.934	0.038	0.046	0	0.006	0.026	
11/13/2018 16:07			0	17.934	0.038	0.046	0	0.006	0.026	
11/13/2018 16:08			0	17.934	0.038	0.046	0	0.006	0.026	
11/13/2018 16:09			0	17.934	0.038	0.046	0	0.006	0.026	
11/13/2018 16:10	12.5	73.9	0	17.934	0.039	0.046	0.011	0.006	0.026	42.43387;-76.49635
11/13/2018 16:11			0	17.934	0.039	0.046	0.022	0.006	0.026	
11/13/2018 16:12			0	17.934	0.026	0.046	0	0.006	0.026	
11/13/2018 16:13			0	17.934	0.023	0.046	0.031	0.006	0.026	
11/13/2018 16:14			0	17.934	0.024	0.046	0	0.006	0.027	
11/13/2018 16:15	12.5	81	0	17.934	0.013	0.046	0	0.006	0.027	42.43379;-76.49636
11/13/2018 16:16			0	17.934	0.007	0.046	0	0.006	0.026	
11/13/2018 16:17			0	17.934	0.005	0.046	0	0.007	0.026	
11/13/2018 16:18			0	17.934	0.004	0.046	0	0.007	0.026	
11/13/2018 16:19			0	17.934	0.004	0.046	0	0.007	0.026	
11/13/2018 16:20	12.5	73.9	0	17.934	0.004	0.046	0	0.007	0.028	42.43379;-76.49636
11/13/2018 16:21			0	17.934	0.004	0.046	0	0.007	0.027	
11/13/2018 16:22			0	17.934	0.004	0.046	0	0.007	0.026	
11/13/2018 16:23			0	17.934	0.004	0.046	0	0.007	0.027	
11/13/2018 16:24			0	17.934	0.004	0.046	0	0.007	0.028	
11/13/2018 16:25	12.5	85	0	17.934	0.003	0.046	0	0.007	0.027	42.43375;-76.49632
11/13/2018 16:26			0	17.934	0.001	0.046	0	0.007	0.027	
11/13/2018 16:27			0	17.934	0.001	0.046	0	0.007	0.027	
11/13/2018 16:28			0	17.934	0	0.046	0	0.007	0.028	
11/13/2018 16:29			0	17.934	0	0.046	0	0.007	0.027	
11/13/2018 16:30	12.4	72.9	0	17.934	0	0.046	0	0.007	0.028	42.43375;-76.49632
11/13/2018 16:31			0	17.934	0	0.046	0	0.007	0.027	
11/13/2018 16:32			0	17.934	0	0.046	0	0.007	0.027	
11/13/2018 16:33			0	17.934	0	0.046	0	0.007	0.027	
11/13/2018 16:34			0	17.934	0	0.046	0	0.007	0.028	
11/13/2018 16:35	12.4	72.9	0	17.934	0	0.046	0	0.008	0.027	42.43374;-76.49634
11/13/2018 16:36			0	17.934	0	0.046	0	0.008	0.027	
11/13/2018 16:37			0	17.934	0	0.046	0	0.008	0.027	
11/13/2018 16:38			0	17.934	0	0.046	0	0.008	0.029	
11/13/2018 16:39			0	17.934	0	0.046	0	0.008	0.028	
11/13/2018 16:40	12.4	76.9	0	17.934	0	0.046	0	0.008	0.028	42.43378;-76.49621
11/13/2018 16:41			0	17.934	0	0.046	0	0.008	0.028	
11/13/2018 16:42			0	17.934	0	0.046	0	0.008	0.028	
11/13/2018 16:43			0	17.934	0	0.046	0	0.008	0.028	
11/13/2018 16:44			0	17.934	0	0.046	0	0.008	0.028	
11/13/2018 16:45	12.4	80	0	17.934	0	0.046	0	0.008	0.028	42.43379;-76.49632
11/13/2018 16:46			0	17.934	0.001	0.046	0	0.008	0.029	
11/13/2018 16:47			0	17.934	0.001	0.046	0	0.008	0.028	
11/13/2018 16:48			0	17.934	0.001	0.046	0	0.008	0.029	
11/13/2018 16:49			0	17.934	0.001	0.046	0	0.008	0.029	
11/13/2018 16:50	12.4	72.9	0	17.934	0.001	0.046	0.002	0.008	0.029	42.43377;-76.49636
11/13/2018 16:51			0	17.934	0.001	0.046	0	0.008	0.029	
11/13/2018 16:52			0	17.934	0.004	0.046	0.012	0.009	0.029	
11/13/2018 16:53			0	17.934	0.008	0.046	0.081	0.009	0.026	
11/13/2018 16:54			0	17.934	0.014	0.046	0.149	0.009	0.025	
11/13/2018 16:55	12.4	82	0	17.934	0.02	0.046	0	0.009	0.026	42.43378;-76.49634
11/13/2018 16:56			0	17.934	0.027	0.047	0.103	0.009	0.025	
11/13/2018 16:57			0	17.934	0.034	0.047	0.088	0.009	0.025	
11/13/2018 16:58			0	17.934	0.039	0.047	0.001	0.009	0.026	
11/13/2018 16:59			0	17.934	0.043	0.047	0.047	0.009	0.027	
11/13/2018 17:00	12.4	79	0	17.934	0.05	0.047	0.086	0.009	0.027	42.43375;-76.49629
11/13/2018 17:01			0	17.934	0.053	0.047	0	0.009	0.027	
11/13/2018 17:02			0	17.934	0.056	0.047	0.022	0.009	0.026	
11/13/2018 17:03			0	17.934	0.058	0.048	0.041	0.009	0.026	
11/13/2018 17:04			0	17.934	0.064	0.048	0.113	0.009	0.027	
11/13/2018 17:05	12.4	73.9	0	17.934	0.069	0.048	0	0.009	0.026	42.43376;-76.49632
11/13/2018 17:06			0	17.934	0.072	0.048	0.07	0.009	0.025	
11/13/2018 17:07			0	17.934	0.074	0.048	0.049	0.009	0.027	
11/13/2018 17:08			0	17.934	0.074	0.048	0.2	0.009	0.027	

Community Air Monitoring Program - Downwind Station
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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/13/2018 17:09			0	17.934	0.073	0.048	0.148	0.009	0.028	
11/13/2018 17:10	12.4	77.9	0	17.934	0.071	0.049	0.039	0.01	0.028	42.43377;-76.49631
11/13/2018 17:11			0	17.934	0.071	0.049	0.159	0.01	0.025	
11/13/2018 17:12			0	17.934	0.08	0.049	0.289	0.01	0.024	
11/13/2018 17:13			0	17.934	0.089	0.05	0.229	0.01	0.024	
11/13/2018 17:14			0	17.934	0.099	0.05	0.218	0.01	0.024	
11/13/2018 17:15	12.4	84	0	17.934	0.104	0.051	0.335	0.01	0.024	42.43375;-76.49628
11/13/2018 17:16			0	17.934	0.113	0.051	0.254	0.01	0.025	
11/13/2018 17:17			0	17.934	0.124	0.051	0.046	0.01	0.027	
11/13/2018 17:18			0	17.934	0.132	0.052	0.086	0.01	0.026	
11/13/2018 17:19			0	17.934	0.135	0.052	0.152	0.01	0.026	
11/13/2018 17:20	12.4	76.9	0	17.934	0.142	0.052	0.061	0.01	0.026	42.43375;-76.49629
11/13/2018 17:21			0	17.934	0.149	0.053	0.27	0.01	0.026	
11/13/2018 17:22			0	17.934	0.157	0.053	0.248	0.01	0.025	
11/13/2018 17:23			0	17.934	0.17	0.054	0.347	0.01	0.024	
11/13/2018 17:24			0	17.934	0.178	0.054	0.121	0.01	0.025	
11/13/2018 17:25	12.4	73.9	0	17.934	0.183	0.054	0	0.01	0.026	42.43375;-76.49628
11/13/2018 17:26			0	17.934	0.183	0.055	0.2	0.01	0.026	
11/13/2018 17:27			0	17.934	0.184	0.055	0.127	0.01	0.026	
11/13/2018 17:28			0	17.934	0.186	0.056	0.237	0.01	0.026	
11/13/2018 17:29			0	17.934	0.18	0.056	0.122	0.011	0.026	
11/13/2018 17:30	12.4	86	0	17.934	0.185	0.056	0.694	0.011	0.026	42.43378;-76.49635
11/13/2018 17:31			0	17.934	0.196	0.057	0.246	0.011	0.026	
11/13/2018 17:32			0	17.934	0.2	0.058	0.184	0.011	0.026	
11/13/2018 17:33			0	17.934	0.2	0.058	0.076	0.011	0.028	
11/13/2018 17:34			0	17.934	0.208	0.059	0.246	0.011	0.027	
11/13/2018 17:35	12.4	73.9	0	17.934	0.211	0.059	0.28	0.011	0.027	42.43376;-76.49633
11/13/2018 17:36			0	17.934	0.224	0.06	0.214	0.011	0.027	
11/13/2018 17:37			0	17.934	0.221	0.06	0.048	0.011	0.028	
11/13/2018 17:38			0	17.934	0.213	0.06	0.304	0.011	0.031	
11/13/2018 17:39			0	17.934	0.212	0.061	0.296	0.011	0.028	
11/13/2018 17:40	12.4	77.9	0	17.934	0.221	0.061	0.288	0.011	0.028	42.43376;-76.49635
11/13/2018 17:41			0	17.934	0.229	0.062	0.402	0.011	0.029	
11/13/2018 17:42			0	17.934	0.236	0.062	0.26	0.011	0.029	
11/13/2018 17:43			0	17.934	0.238	0.063	0.371	0.011	0.027	
11/13/2018 17:44			0	17.934	0.249	0.064	0.252	0.011	0.028	
11/13/2018 17:45	12.4	76.9	0	17.934	0.255	0.064	0.392	0.011	0.029	42.43378;-76.49635
11/13/2018 17:46			0	17.934	0.244	0.065	0.135	0.012	0.029	
11/13/2018 17:47			0	17.934	0.25	0.065	0.552	0.012	0.029	
11/13/2018 17:48			0	17.934	0.264	0.066	0.341	0.012	0.028	
11/13/2018 17:49			0	17.934	0.272	0.067	0.399	0.012	0.028	
11/13/2018 17:50	12.4	75.9	0	17.934	0.29	0.068	0.362	0.012	0.028	42.43388;-76.49632
11/13/2018 17:51			0	17.934	0.296	0.069	0.333	0.012	0.028	
11/13/2018 17:52			0	17.934	0.315	0.07	0.399	0.012	0.029	
11/13/2018 17:53			0	17.934	0.332	0.071	0.286	0.012	0.029	
11/13/2018 17:54			0	17.934	0.349	0.072	0.476	0.012	0.03	
11/13/2018 17:55	12.4	72.9	0	17.934	0.356	0.072	0.353	0.012	0.029	42.43384;-76.49634
11/13/2018 17:56			0	17.934	0.367	0.073	0.628	0.012	0.029	
11/13/2018 17:57			0	17.934	0.376	0.074	0.39	0.012	0.029	
11/13/2018 17:58			0	17.934	0.382	0.075	0.395	0.012	0.029	
11/13/2018 17:59			0	17.934	0.393	0.076	0.648	0.012	0.03	
11/13/2018 18:00	12.4	74.9	0	17.934	0.402	0.077	0.355	0.012	0.03	42.43377;-76.49629
11/13/2018 18:01			0	17.934	0.415	0.078	0.374	0.012	0.031	
11/13/2018 18:02			0	17.934	0.417	0.079	0.426	0.012	0.03	
11/13/2018 18:03			0	17.934	0.426	0.08	0.506	0.013	0.029	
11/13/2018 18:04			0	17.934	0.435	0.081	0.379	0.013	0.027	
11/13/2018 18:05	12.3	73.9	0	17.934	0.436	0.082	0.314	0.013	0.028	42.43372;-76.49636
11/13/2018 18:06			0	17.934	0.444	0.083	0.573	0.013	0.028	
11/13/2018 18:07			0	17.934	0.45	0.084	0.448	0.013	0.028	
11/13/2018 18:08			0	17.934	0.46	0.085	0.571	0.013	0.027	
11/13/2018 18:09			0	17.934	0.468	0.086	0.524	0.013	0.027	
11/13/2018 18:10	12.3	85	0	17.934	0.481	0.087	0.485	0.013	0.027	42.4337;-76.49637
11/13/2018 18:11			0	17.934	0.498	0.089	0.662	0.013	0.027	
11/13/2018 18:12			0	17.934	0.514	0.09	0.64	0.013	0.029	
11/13/2018 18:13			0	17.934	0.53	0.092	0.723	0.013	0.034	
11/13/2018 18:14			0	17.934	0.536	0.093	0.587	0.013	0.027	
11/13/2018 18:15	12.3	75.9	0	17.934	0.542	0.094	0.246	0.013	0.027	42.43373;-76.49632
11/13/2018 18:16			0	17.934	0.537	0.095	0.318	0.013	0.029	
11/13/2018 18:17			0	17.934	0.536	0.095	0.23	0.013	0.034	
11/13/2018 18:18			0	17.934	0.524	0.096	0.394	0.013	0.027	
11/13/2018 18:19			0	17.934	0.513	0.097	0.49	0.014	0.027	
11/13/2018 18:20	12.3	72.9	0	17.934	0.501	0.097	0.172	0.014	0.028	42.43372;-76.49631
11/13/2018 18:21			0	17.934	0.483	0.098	0.475	0.014	0.028	
11/13/2018 18:22			0	17.934	0.475	0.099	0.482	0.014	0.029	
11/13/2018 18:23			0	17.934	0.48	0.1	0.433	0.014	0.03	
11/13/2018 18:24			0	17.934	0.476	0.101	0.431	0.014	0.031	
11/13/2018 18:25	12.3	93.1	0	17.934	0.469	0.102	0.599	0.014	0.029	42.43374;-76.49635
11/13/2018 18:26			0	17.934	0.459	0.103	0.583	0.014	0.03	
11/13/2018 18:27			0	17.934	0.448	0.104	0.577	0.014	0.03	
11/13/2018 18:28			0	17.934	0.441	0.105	0.548	0.014	0.028	
11/13/2018 18:29			0	17.934	0.442	0.107	0.541	0.014	0.028	
11/13/2018 18:30	12.3	72.9	0	17.934	0.44	0.108	0.55	0.014	0.028	42.43371;-76.49623
11/13/2018 18:31			0	17.934	0.453	0.109	0.407	0.014	0.028	
11/13/2018 18:32			0	17.934	0.466	0.11	0.675	0.014	0.028	
11/13/2018 18:33			0	17.934	0.485	0.111	0.559	0.014	0.027	
11/13/2018 18:34			0	17.934	0.504	0.112	0.515	0.014	0.028	
11/13/2018 18:35	12.3	88.1	0	17.934	0.515	0.113	0.46	0.014	0.028	42.43375;-76.4963
11/13/2018 18:36			0	17.934	0.533	0.115	0.555	0.015	0.028	
11/13/2018 18:37			0	17.934	0.544	0.116	0.637	0.015	0.028	
11/13/2018 18:38			0	17.934	0.542	0.117	0.355	0.015	0.029	
11/13/2018 18:39			0	17.934	0.543	0.118	0.594	0.015	0.029	
11/13/2018 18:40	12.3	117.4	0	17.934	0.555	0.12	0.598	0.015	0.031	42.43375;-76.49631
11/13/2018 18:41			0	17.934	0.558	0.121	0.663	0.015	0.029	
11/13/2018 18:42			0	17.934	0.56	0.122	0.465	0.015	0.031	
11/13/2018 18:43			0	17.934	0.564	0.123	0.516	0.015	0.031	
11/13/2018 18:44			0	17.934	0.572	0.124	0.795	0.015	0.031	
11/13/2018 18:45	12.3	72.9	0	17.934	0.593	0.126	0.61	0.015	0.028	42.43373;-76.49627
11/13/2018 18:46			0	17.934	0.595	0.127	0.6	0.015	0.028	
11/13/2018 18:47			0	17.934	0.602	0.129	0.605	0.015	0.028	
11/13/2018 18:48			0	17.934	0.599	0.13	0.591	0.015	0.029	
11/13/2018 18:49			0	17.934	0.598	0.131	0.565	0.015	0.029	
11/13/2018 18:50	12.3	73.9	0	17.934	0.604	0.132	0.519	0.015	0.029	42.43374;-76.49627
11/13/2018 18:51			0	17.934	0.604	0.133	0.395	0.015	0.029	
11/13/2018 18:52			0	17.934	0.6	0.135	0.501	0.015	0.03	
11/13/2018 18:53			0	17.934	0.593	0.136	0.466	0.016	0.03	
11/13/2018 18:54			0	17.934	0.591	0.137	0.543	0.016	0.03	
11/13/2018 18:55	12.3	84	0	17.934	0.579	0.138	0.399	0.016	0.03	42.43372;-76.49634
11/13/2018 18:56			0	17.934	0.574	0.139	0.469	0.016	0.03	
11/13/2018 18:57			0	17.934	0.569	0.14	0.572	0.016	0.031	

Community Air Monitoring Program - Downwind Station
October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/13/2018 18:58			0	17.934	0.576	0.141	0.594	0.016	0.032	
11/13/2018 18:59			0	17.934	0.568	0.142	0.441	0.016	0.032	
11/13/2018 19:00	12.3	74.9	0	17.934	0.547	0.143	0.527	0.016	0.031	42.43371;-76.49621
11/13/2018 19:01			0	17.934	0.541	0.144	0.613	0.016	0.032	
11/13/2018 19:02			0	17.934	0.536	0.145	0.564	0.016	0.031	
11/13/2018 19:03			0	17.934	0.531	0.146	0.54	0.016	0.03	
11/13/2018 19:04			0	17.934	0.523	0.147	0.556	0.016	0.031	
11/13/2018 19:05	12.2	73.9	0	17.934	0.518	0.149	0.528	0.016	0.032	42.4337;-76.49634
11/13/2018 19:06			0	17.934	0.516	0.15	0.6	0.016	0.032	
11/13/2018 19:07			0	17.934	0.515	0.151	0.631	0.016	0.032	
11/13/2018 19:08			0	17.934	0.52	0.152	0.446	0.017	0.033	
11/13/2018 19:09			0	17.934	0.519	0.153	0.47	0.017	0.032	
11/13/2018 19:10	12.3	72.9	0	17.934	0.523	0.154	0.59	0.017	0.033	42.43371;-76.49635
11/13/2018 19:11			0	17.934	0.544	0.156	0.74	0.017	0.034	
11/13/2018 19:12			0	17.934	0.554	0.157	0.497	0.017	0.033	
11/13/2018 19:13			0	17.934	0.541	0.158	0.516	0.017	0.033	
11/13/2018 19:14			0	17.934	0.539	0.159	0.534	0.017	0.034	
11/13/2018 19:15	12.2	73.9	0	17.934	0.54	0.16	0.637	0.017	0.034	42.43371;-76.49636
11/13/2018 19:16			0	17.934	0.544	0.161	0.547	0.017	0.034	
11/13/2018 19:17			0	17.934	0.544	0.162	0.547	0.017	0.034	
11/13/2018 19:18			0	17.934	0.548	0.164	0.55	0.017	0.034	
11/13/2018 19:19			0	17.934	0.559	0.165	0.683	0.017	0.034	
11/13/2018 19:20	12.2	80	0	17.934	0.567	0.166	0.636	0.017	0.034	42.43371;-76.49635
11/13/2018 19:21			0	17.934	0.569	0.167	0.495	0.017	0.034	
11/13/2018 19:22			0	17.934	0.566	0.168	0.444	0.018	0.035	
11/13/2018 19:23			0	17.934	0.565	0.17	0.46	0.018	0.036	
11/13/2018 19:24			0	17.934	0.567	0.171	0.527	0.018	0.036	
11/13/2018 19:25	12.2	73.9	0	17.934	0.568	0.172	0.582	0.018	0.036	42.43369;-76.4963
11/13/2018 19:26			0	17.934	0.551	0.173	0.412	0.018	0.036	
11/13/2018 19:27			0	17.934	0.549	0.174	0.778	0.018	0.035	
11/13/2018 19:28			0	17.934	0.556	0.175	0.704	0.018	0.035	
11/13/2018 19:29			0	17.934	0.561	0.177	0.572	0.018	0.035	
11/13/2018 19:30	12.2	79	0	17.934	0.567	0.178	0.625	0.018	0.035	42.43367;-76.49635
11/13/2018 19:31			0	17.934	0.569	0.179	0.659	0.018	0.035	
11/13/2018 19:32			0	17.934	0.574	0.18	0.574	0.018	0.036	
11/13/2018 19:33			0	17.934	0.578	0.182	0.51	0.018	0.043	
11/13/2018 19:34			0	17.934	0.572	0.183	0.569	0.018	0.038	
11/13/2018 19:35	12.2	84	0	17.934	0.566	0.184	0.57	0.018	0.037	42.43369;-76.49632
11/13/2018 19:36			0	17.934	0.567	0.185	0.515	0.019	0.036	
11/13/2018 19:37			0	17.934	0.569	0.186	0.583	0.019	0.036	
11/13/2018 19:38			0	17.934	0.569	0.187	0.522	0.019	0.037	
11/13/2018 19:39			0	17.934	0.571	0.188	0.601	0.019	0.037	
11/13/2018 19:40	12.2	80	0	17.934	0.57	0.19	0.554	0.019	0.037	42.4337;-76.49635
11/13/2018 19:41			0	17.934	0.572	0.191	0.606	0.019	0.038	
11/13/2018 19:42			0	17.934	0.568	0.192	0.595	0.019	0.038	
11/13/2018 19:43			0	17.934	0.565	0.193	0.564	0.019	0.038	
11/13/2018 19:44			0	17.934	0.559	0.194	0.549	0.019	0.038	
11/13/2018 19:45	12.2	73.9	0	17.934	0.554	0.195	0.507	0.019	0.038	42.43371;-76.49635
11/13/2018 19:46			0	17.934	0.549	0.196	0.589	0.019	0.038	
11/13/2018 19:47			0	17.934	0.543	0.197	0.545	0.019	0.038	
11/13/2018 19:48			0	17.934	0.538	0.199	0.433	0.02	0.039	
11/13/2018 19:49			0	17.934	0.539	0.2	0.538	0.02	0.039	
11/13/2018 19:50	12.2	73.9	0	17.934	0.543	0.201	0.507	0.02	0.039	42.43371;-76.49634
11/13/2018 19:51			0	17.934	0.539	0.202	0.61	0.02	0.038	
11/13/2018 19:52			0	17.934	0.537	0.203	0.52	0.02	0.038	
11/13/2018 19:53			0	17.934	0.536	0.204	0.506	0.02	0.038	
11/13/2018 19:54			0	17.934	0.533	0.205	0.728	0.02	0.039	
11/13/2018 19:55	12.2	77.9	0	17.934	0.532	0.206	0.561	0.02	0.039	42.43369;-76.49632
11/13/2018 19:56			0	17.934	0.533	0.207	0.523	0.02	0.039	
11/13/2018 19:57			0	17.934	0.534	0.209	0.491	0.02	0.039	
11/13/2018 19:58			0	17.934	0.534	0.21	0.415	0.02	0.039	
11/13/2018 19:59			0	17.934	0.534	0.211	0.512	0.02	0.04	
11/13/2018 20:00	12.2	79	0	17.934	0.527	0.212	0.541	0.02	0.04	42.43366;-76.49634
11/13/2018 20:01			0	17.934	0.524	0.213	0.532	0.021	0.04	
11/13/2018 20:02			0	17.934	0.522	0.214	0.553	0.021	0.04	
11/13/2018 20:03			0	17.934	0.523	0.215	0.576	0.021	0.04	
11/13/2018 20:04			0	17.934	0.522	0.216	0.628	0.021	0.04	
11/13/2018 20:05	12.2	82	0	17.934	0.524	0.217	0.622	0.021	0.04	42.43375;-76.49628
11/13/2018 20:06			0	17.934	0.527	0.218	0.534	0.021	0.041	
11/13/2018 20:07			0	17.934	0.533	0.22	0.474	0.021	0.041	
11/13/2018 20:08			0	17.934	0.537	0.221	0.571	0.021	0.042	
11/13/2018 20:09			0	17.934	0.543	0.222	0.664	0.021	0.043	
11/13/2018 20:10	12.2	84	0	17.934	0.547	0.223	0.576	0.021	0.043	42.43374;-76.49632
11/13/2018 20:11			0	17.934	0.548	0.225	0.542	0.021	0.043	
11/13/2018 20:12			0	17.934	0.549	0.226	0.504	0.022	0.043	
11/13/2018 20:13			0	17.934	0.548	0.227	0.6	0.022	0.044	
11/13/2018 20:14			0	17.934	0.554	0.228	0.517	0.022	0.045	
11/13/2018 20:15	12.1	75.9	0	17.934	0.566	0.229	0.766	0.022	0.045	42.43369;-76.49635
11/13/2018 20:16			0	17.934	0.575	0.231	0.628	0.022	0.045	
11/13/2018 20:17			0	17.934	0.579	0.232	0.702	0.022	0.045	
11/13/2018 20:18			0	17.934	0.582	0.233	0.568	0.022	0.047	
11/13/2018 20:19			0	17.934	0.583	0.234	0.597	0.022	0.047	
11/13/2018 20:20	12.2	74.9	0	17.934	0.585	0.236	0.714	0.022	0.06	42.4337;-76.49633
11/13/2018 20:21			0	17.934	0.594	0.237	0.642	0.022	0.051	
11/13/2018 20:22			0	17.934	0.597	0.238	0.746	0.023	0.047	
11/13/2018 20:23			0	17.934	0.6	0.24	0.627	0.023	0.048	
11/13/2018 20:24			0	17.934	0.605	0.241	0.757	0.023	0.048	
11/13/2018 20:25	12.1	79	0	17.934	0.609	0.242	0.675	0.023	0.049	42.43371;-76.4964
11/13/2018 20:26			0	17.934	0.611	0.244	0.701	0.023	0.048	
11/13/2018 20:27			0	17.934	0.618	0.245	0.718	0.023	0.049	
11/13/2018 20:28			0	17.934	0.626	0.246	0.701	0.023	0.049	
11/13/2018 20:29			0	17.934	0.629	0.248	0.713	0.023	0.05	
11/13/2018 20:30	12.1	74.9	0	17.934	0.629	0.249	0.571	0.023	0.05	42.43373;-76.49634
11/13/2018 20:31			0	17.934	0.627	0.25	0.608	0.023	0.051	
11/13/2018 20:32			0	17.934	0.627	0.251	0.548	0.024	0.051	
11/13/2018 20:33			0	17.934	0.625	0.253	0.476	0.024	0.052	
11/13/2018 20:34			0	17.934	0.623	0.254	0.548	0.024	0.054	
11/13/2018 20:35	12.1	80	0	17.934	0.618	0.255	0.583	0.024	0.054	42.43373;-76.49632
11/13/2018 20:36			0	17.934	0.609	0.256	0.408	0.024	0.054	
11/13/2018 20:37			0	17.934	0.6	0.257	0.591	0.024	0.054	
11/13/2018 20:38			0	17.934	0.596	0.258	0.539	0.024	0.054	
11/13/2018 20:39			0	17.934	0.589	0.259	0.553	0.024	0.054	
11/13/2018 20:40	12.1	80	0	17.934	0.584	0.261	0.618	0.024	0.053	42.43375;-76.49633
11/13/2018 20:41			0	17.934	0.581	0.262	0.608	0.025	0.053	
11/13/2018 20:42			0	17.934	0.576	0.263	0.619	0.025	0.053	
11/13/2018 20:43			0	17.934	0.57	0.264	0.538	0.025	0.053	
11/13/2018 20:44			0	17.934	0.556	0.265	0.26	0.025	0.053	
11/13/2018 20:45	12.1	74.9	0	17.934	0.54	0.266	0.362	0.025	0.054	42.43369;-76.49635
11/13/2018 20:46			0	17.934	0.528	0.267	0.435	0.025	0.054	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/13/2018 20:47			0	17.934	0.516	0.268	0.327	0.025	0.055	
11/13/2018 20:48			0	17.934	0.513	0.269	0.574	0.025	0.053	
11/13/2018 20:49			0	17.934	0.511	0.27	0.502	0.025	0.053	
11/13/2018 20:50	12.1	73.9	0	17.934	0.51	0.271	0.539	0.026	0.053	42.43373;-76.4963
11/13/2018 20:51			0	17.934	0.509	0.272	0.552	0.026	0.053	
11/13/2018 20:52			0	17.934	0.516	0.273	0.538	0.026	0.052	
11/13/2018 20:53			0	17.934	0.515	0.274	0.342	0.026	0.053	
11/13/2018 20:54			0	17.934	0.514	0.275	0.473	0.026	0.054	
11/13/2018 20:55	12.1	75.9	0	17.934	0.509	0.277	0.533	0.026	0.054	42.4337;-76.49633
11/13/2018 20:56			0	17.934	0.508	0.278	0.641	0.026	0.055	
11/13/2018 20:57			0	17.934	0.506	0.279	0.609	0.026	0.055	
11/13/2018 20:58			0	17.934	0.505	0.28	0.691	0.026	0.056	
11/13/2018 20:59			0	17.934	0.515	0.281	0.534	0.027	0.056	
11/13/2018 21:00	12.1	84	0	17.934	0.527	0.282	0.651	0.027	0.055	42.43371;-76.49636
11/13/2018 21:01			0	17.934	0.538	0.284	0.483	0.027	0.056	
11/13/2018 21:02			0	17.934	0.55	0.285	0.606	0.027	0.054	
11/13/2018 21:03			0	17.934	0.55	0.286	0.454	0.027	0.053	
11/13/2018 21:04			0	17.934	0.548	0.287	0.494	0.027	0.049	
11/13/2018 21:05	12.1	73.9	0	17.934	0.546	0.288	0.551	0.027	0.04	42.4337;-76.49637
11/13/2018 21:06			0	17.934	0.546	0.289	0.512	0.027	0.036	
11/13/2018 21:07			0	17.934	0.539	0.29	0.562	0.027	0.032	
11/13/2018 21:08			0	17.934	0.538	0.291	0.506	0.027	0.03	
11/13/2018 21:09			0	17.934	0.535	0.292	0.507	0.027	0.03	
11/13/2018 21:10	12.1	84	0	17.934	0.537	0.293	0.585	0.028	0.03	42.43373;-76.49632
11/13/2018 21:11			0	17.934	0.536	0.294	0.474	0.028	0.03	
11/13/2018 21:12									0.029	
11/13/2018 21:15	12.3	72.9								42.43257;-76.49705
11/14/2018 12:42	12.9	95.1								
11/14/2018 12:43			0	0	0	0	0			
11/14/2018 12:44			0	0	0	0	0	0	0.017	
11/14/2018 12:45	12.8	71.9	0	0	0	0	0	0	0.009	42.43143;-76.49754
11/14/2018 12:46			0	0	0	0	0	0	0.009	
11/14/2018 12:47			0	0	0	0	0	0	0.01	
11/14/2018 12:48			0	0	0	0	0	0	0.008	
11/14/2018 12:49			0	0	0	0	0	0	0.008	
11/14/2018 12:50	12.8	76.9	0	0	0	0	0	0	0.012	42.43146;-76.49753
11/14/2018 12:51			0	0	0	0	0	0	0.011	
11/14/2018 12:52			0	0	0	0	0	0	0.007	
11/14/2018 12:53			0	0	0	0	0	0	0.007	
11/14/2018 12:54			0	0	0	0	0	0	0.007	
11/14/2018 12:55	12.8	80	0	0	0	0	0	0	0.008	
11/14/2018 12:55										42.43147;-76.49754
11/14/2018 12:56			0	0	0	0	0	0	0.008	
11/14/2018 12:57			0	0	0	0	0	0	0.008	
11/14/2018 12:58			0	0	0	0	0	0	0.009	
11/14/2018 12:59			0	0	0	0	0	0	0.009	
11/14/2018 13:00	12.7	70.9	0	0	0	0	0	0	0.009	
11/14/2018 13:00										42.43142;-76.49756
11/14/2018 13:01			0	0	0	0	0	0	0.009	
11/14/2018 13:02			0	0	0	0	0	0	0.009	
11/14/2018 13:03			0	0	0	0	0	0	0.01	
11/14/2018 13:04			0	0	0	0	0	0	0.009	
11/14/2018 13:05	12.7	81	0	0	0	0	0	0	0.01	
11/14/2018 13:05										42.43145;-76.49754
11/14/2018 13:06			0	0	0	0	0	0	0.01	
11/14/2018 13:07			0	0	0	0	0	0	0.01	
11/14/2018 13:08			0	0	0	0	0	0	0.009	
11/14/2018 13:09			0	0	0	0	0	0	0.009	
11/14/2018 13:10	12.7	71.9	0	0	0	0	0	0	0.01	
11/14/2018 13:10										42.43142;-76.49754
11/14/2018 13:11			0	0	0	0	0	0.001	0.009	
11/14/2018 13:12			0	0	0	0	0	0.001	0.009	
11/14/2018 13:13			0	0	0	0	0	0.001	0.01	
11/14/2018 13:14			0	0	0	0	0	0.001	0.008	
11/14/2018 13:15	12.7	81	0	0	0	0	0	0.001	0.007	
11/14/2018 13:15										42.43143;-76.49751
11/14/2018 13:16			0	0	0	0	0	0.001	0.007	
11/14/2018 13:17			0	0	0	0	0	0.001	0.007	
11/14/2018 13:18			0	0	0	0	0	0.001	0.007	
11/14/2018 13:19			0	0	0	0	0	0.001	0.008	
11/14/2018 13:20	12.7	76.9	0	0	0	0	0	0.001	0.008	
11/14/2018 13:20										42.43147;-76.49754
11/14/2018 13:21			0	0	0	0	0	0.001	0.008	
11/14/2018 13:22			0	0	0	0	0	0.001	0.008	
11/14/2018 13:23			0	0	0	0	0	0.001	0.008	
11/14/2018 13:24			0	0	0	0	0	0.001	0.008	
11/14/2018 13:25	12.7	70.9	0	0	0	0	0	0.001	0.008	
11/14/2018 13:25										42.43142;-76.49751
11/14/2018 13:26			0	0	0	0	0	0.001	0.01	
11/14/2018 13:27			0	0	0	0	0	0.001	0.009	
11/14/2018 13:28			0	0	0	0	0	0.001	0.009	
11/14/2018 13:29			0	0	0	0	0	0.001	0.009	
11/14/2018 13:30	12.7	71.9	0	0	0	0	0	0.001	0.009	
11/14/2018 13:30										42.43143;-76.49749
11/14/2018 13:31			0	0	0	0	0	0.001	0.009	
11/14/2018 13:32			0	0	0	0	0	0.001	0.01	
11/14/2018 13:33			0	0	0	0	0	0.001	0.01	
11/14/2018 13:34			0	0	0	0	0	0.001	0.01	
11/14/2018 13:35	12.7	70.9	0	0	0	0	0	0.001	0.01	
11/14/2018 13:35										42.43147;-76.49754
11/14/2018 13:36			0	0	0	0	0	0.001	0.01	
11/14/2018 13:37			0	0	0	0	0	0.001	0.01	
11/14/2018 13:38			0	0	0	0	0	0.001	0.01	
11/14/2018 13:39			0	0	0	0	0	0.001	0.01	
11/14/2018 13:40	12.7	73.9	0	0	0	0	0	0.001	0.01	
11/14/2018 13:40										42.43143;-76.49753
11/14/2018 13:41			0	0	0	0	0	0.001	0.01	
11/14/2018 13:42			0	0	0	0	0	0.001	0.01	
11/14/2018 13:43			0	0	0	0	0	0.001	0.01	
11/14/2018 13:44			0	0	0	0	0	0.001	0.01	
11/14/2018 13:45	12.7	73.9	0	0	0	0	0	0.001	0.009	
11/14/2018 13:45										42.4315;-76.49754
11/14/2018 13:46			0	0	0	0	0	0.001	0.009	
11/14/2018 13:47			0	0	0	0	0	0.001	0.009	
11/14/2018 13:48			0	0	0	0	0	0.001	0.009	
11/14/2018 13:49			0	0	0	0	0	0.001	0.009	
11/14/2018 13:50	12.7	80	0	0	0	0	0	0.001	0.009	
11/14/2018 13:50										42.4315;-76.49752
11/14/2018 13:51			0	0	0	0	0	0.001	0.009	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/14/2018 13:52			0	0	0	0	0	0.001	0.009	
11/14/2018 13:53			0	0	0	0	0	0.001	0.009	
11/14/2018 13:54			0	0	0	0	0	0.001	0.009	
11/14/2018 13:55	12.7	71.9	0	0	0	0	0	0.001	0.009	
11/14/2018 13:55										42.43146;-76.49754
11/14/2018 13:56			0	0	0	0	0	0.001	0.009	
11/14/2018 13:57			0	0	0	0	0	0.001	0.012	
11/14/2018 13:58			0	0	0	0	0	0.001	0.009	
11/14/2018 13:59			0	0	0	0	0	0.001	0.009	
11/14/2018 14:00	12.7	71.9	0	0	0	0	0	0.001	0.009	
11/14/2018 14:00										42.43148;-76.49755
11/14/2018 14:01			0	0	0	0	0	0.001	0.009	
11/14/2018 14:02			0	0	0	0	0	0.001	0.009	
11/14/2018 14:03			0	0	0	0	0	0.001	0.009	
11/14/2018 14:04			0	0	0	0	0	0.002	0.009	
11/14/2018 14:05	12.7	80	0	0	0	0	0	0.002	0.009	
11/14/2018 14:05										42.43143;-76.49755
11/14/2018 14:06			0	0	0	0	0	0.002	0.009	
11/14/2018 14:07			0	0	0	0	0	0.002	0.008	
11/14/2018 14:08			0	0	0	0	0	0.002	0.007	
11/14/2018 14:09			0	0	0	0	0	0.002	0.007	
11/14/2018 14:10	12.7	82	0	0	0	0	0	0.002	0.008	
11/14/2018 14:10										42.43144;-76.49752
11/14/2018 14:11			0	0	0	0	0	0.002	0.008	
11/14/2018 14:12			0	0	0	0	0	0.002	0.007	
11/14/2018 14:13			0	0	0	0	0	0.002	0.007	
11/14/2018 14:14			0	0	0	0	0	0.002	0.007	
11/14/2018 14:15	12.7	94.1	0	0	0	0	0	0.002	0.007	
11/14/2018 14:15										42.43141;-76.49751
11/14/2018 14:16			0	0	0	0	0	0.002	0.006	
11/14/2018 14:17			0	0	0	0	0	0.002	0.007	
11/14/2018 14:18			0	0	0	0	0	0.002	0.007	
11/14/2018 14:19			0	0	0	0	0	0.002	0.007	
11/14/2018 14:20	12.6	79	0	0	0	0	0	0.002	0.007	
11/14/2018 14:20										42.43141;-76.49754
11/14/2018 14:21			0	0	0	0	0	0.002	0.007	
11/14/2018 14:22			0	0	0	0	0	0.002	0.007	
11/14/2018 14:23			0	0	0	0	0	0.002	0.007	
11/14/2018 14:24			0	0	0	0	0	0.002	0.007	
11/14/2018 14:25	12.6	72.9	0	0	0	0	0	0.002	0.007	
11/14/2018 14:25										42.43152;-76.49747
11/14/2018 14:26			0	0	0	0	0	0.002	0.007	
11/14/2018 14:27			0	0	0	0	0	0.002	0.006	
11/14/2018 14:28			0	0	0	0	0	0.002	0.006	
11/14/2018 14:29			0	0	0	0	0	0.002	0.006	
11/14/2018 14:30	12.6	79	0	0	0	0	0	0.002	0.006	
11/14/2018 14:30										42.43149;-76.49746
11/14/2018 14:31			0	0	0	0	0	0.002	0.006	
11/14/2018 14:32			0	0	0	0	0	0.002	0.006	
11/14/2018 14:33			0	0	0	0	0	0.002	0.006	
11/14/2018 14:34			0	0	0	0	0	0.002	0.006	
11/14/2018 14:35	12.6	71.9	0	0	0	0	0	0.002	0.007	
11/14/2018 14:35										42.43153;-76.49744
11/14/2018 14:36			0	0	0	0	0	0.002	0.006	
11/14/2018 14:37			0	0	0	0	0	0.002	0.007	
11/14/2018 14:38			0	0	0	0	0	0.002	0.006	
11/14/2018 14:39			0	0	0	0	0	0.002	0.006	
11/14/2018 14:40	12.6	71.9	0	0	0	0	0	0.002	0.007	
11/14/2018 14:40										42.43153;-76.49746
11/14/2018 14:41			0	0	0	0	0	0.002	0.006	
11/14/2018 14:42			0	0	0	0	0	0.002	0.006	
11/14/2018 14:43			0	0	0	0	0	0.002	0.006	
11/14/2018 14:44			0	0	0	0	0	0.002	0.006	
11/14/2018 14:45	12.6	71.9	0	0	0	0	0	0.002	0.006	
11/14/2018 14:45										42.4315;-76.49747
11/14/2018 14:46			0	0	0	0	0	0.002	0.006	
11/14/2018 14:47			0	0	0	0	0	0.002	0.006	
11/14/2018 14:48			0	0	0	0	0	0.002	0.01	
11/14/2018 14:49			0	0	0	0	0	0.002	0.006	
11/14/2018 14:50	12.6	70.9	0	0	0	0	0	0.002	0.005	
11/14/2018 14:50										42.43152;-76.49747
11/14/2018 14:51			0	0	0	0	0	0.002	0.006	
11/14/2018 14:52			0	0	0	0	0	0.002	0.008	
11/14/2018 14:53			0	0	0	0	0	0.002	0.007	
11/14/2018 14:54			0	0	0	0	0	0.002	0.007	
11/14/2018 14:55	12.6	70.9	0	0	0	0	0	0.002	0.007	
11/14/2018 14:55										42.43149;-76.4975
11/14/2018 14:56			0	0	0	0	0	0.002	0.011	
11/14/2018 14:57			0	0	0	0	0	0.002	0.006	
11/14/2018 14:58			0	0	0	0	0	0.002	0.006	
11/14/2018 14:59			0	0	0	0	0	0.002	0.006	
11/14/2018 15:00	12.6	83	0	0	0	0	0	0.002	0.006	
11/14/2018 15:00										42.43147;-76.49749
11/14/2018 15:01			0	0	0	0	0	0.002	0.006	
11/14/2018 15:02			0	0	0	0	0	0.002	0.006	
11/14/2018 15:03			0	0	0	0	0	0.002	0.006	
11/14/2018 15:04			0	0	0	0	0	0.002	0.007	
11/14/2018 15:05	12.6	72.9	0	0	0	0	0	0.002	0.006	
11/14/2018 15:05										42.43159;-76.49755
11/14/2018 15:06			0	0	0	0	0	0.002	0.006	
11/14/2018 15:07			0	0	0	0	0	0.002	0.006	
11/14/2018 15:08			0	0	0	0	0	0.002	0.007	
11/14/2018 15:09			0	0	0	0	0	0.002	0.006	
11/14/2018 15:10	12.6	72.9	0	0	0	0	0	0.002	0.006	
11/14/2018 15:10										42.43151;-76.49754
11/14/2018 15:11			0	0	0	0	0	0.002	0.006	
11/14/2018 15:12			0	0	0	0	0	0.002	0.006	
11/14/2018 15:13			0	0	0	0	0	0.002	0.006	
11/14/2018 15:14			0	0	0	0	0	0.002	0.006	
11/14/2018 15:15	12.6	72.9	0	0	0	0	0	0.003	0.007	
11/14/2018 15:15										42.43147;-76.49753
11/14/2018 15:16			0	0	0	0	0	0.003	0.006	
11/14/2018 15:17			0	0	0	0	0	0.003	0.006	
11/14/2018 15:18			0	0	0	0	0	0.003	0.006	
11/14/2018 15:19			0	0	0	0	0	0.003	0.006	
11/14/2018 15:20	12.6	71.9	0	0	0	0	0	0.003	0.006	
11/14/2018 15:20										42.43143;-76.49751
11/14/2018 15:21			0	0	0	0	0	0.003	0.006	
11/14/2018 15:22			0	0	0	0	0	0.003	0.006	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/14/2018 15:23			0	0	0	0	0	0.003	0.006	
11/14/2018 15:24			0	0	0	0	0	0.003	0.006	
11/14/2018 15:25	12.6	72.9	0	0	0	0	0	0.003	0.006	
11/14/2018 15:25										42.4314;-76.49749
11/14/2018 15:26			0	0	0	0	0	0.003	0.006	
11/14/2018 15:27			0	0	0	0	0	0.003	0.006	
11/14/2018 15:28			0	0	0	0	0	0.003	0.007	
11/14/2018 15:29			0	0	0	0	0	0.003	0.006	
11/14/2018 15:30	12.6	71.9	0	0	0	0	0	0.003	0.006	
11/14/2018 15:30										42.43143;-76.49751
11/14/2018 15:31			0	0	0	0	0	0.003	0.006	
11/14/2018 15:32			0	0	0	0	0	0.003	0.006	
11/14/2018 15:33			0	0	0	0	0	0.003	0.006	
11/14/2018 15:34			0	0	0	0	0	0.003	0.006	
11/14/2018 15:35	12.6	81	0	0	0	0	0	0.003	0.006	
11/14/2018 15:35										42.43141;-76.49751
11/14/2018 15:36			0	0	0	0	0	0.003	0.006	
11/14/2018 15:37			0	0	0	0	0	0.003	0.007	
11/14/2018 15:38			0	0	0	0	0	0.003	0.007	
11/14/2018 15:39			0	0	0	0	0	0.003	0.006	
11/14/2018 15:40	12.5	72.9	0	0	0	0	0	0.003	0.006	
11/14/2018 15:40										42.43145;-76.49749
11/14/2018 15:41			0	0	0	0	0	0.003	0.006	
11/14/2018 15:42			0	0	0	0	0	0.003	0.006	
11/14/2018 15:43			0	0	0	0	0	0.003	0.006	
11/14/2018 15:44			0	0	0	0	0	0.003	0.006	
11/14/2018 15:45	12.5	68.8	0	0	0	0	0	0.003	0.006	
11/14/2018 15:45										42.43142;-76.49751
11/14/2018 15:46			0	0	0	0	0	0.003	0.007	
11/14/2018 15:47			0	0	0	0	0	0.003	0.006	
11/14/2018 15:48			0	0	0	0	0	0.003	0.006	
11/14/2018 15:49			0	0	0	0	0	0.003	0.006	
11/14/2018 15:50	12.5	74.9	0	0.005	0	0	0	0.003	0.006	
11/14/2018 15:50										42.43144;-76.49752
11/14/2018 15:51			0	0.005	0	0	0	0.003	0.006	
11/14/2018 15:52			0	0.005	0	0	0	0.003	0.006	
11/14/2018 15:53			0	0.005	0	0	0	0.003	0.006	
11/14/2018 15:54			0	0.005	0	0	0	0.003	0.006	
11/14/2018 15:55	12.5	72.9	0	0.008	0	0	0	0.003	0.006	
11/14/2018 15:55										42.43142;-76.49756
11/14/2018 15:56			0	0.008	0	0	0	0.003	0.006	
11/14/2018 15:57			0	0.011	0	0	0.011	0.003	0.006	
11/14/2018 15:58			0	0.011	0	0	0	0.003	0.007	
11/14/2018 15:59			0	0.014	0	0	0	0.003	0.007	
11/14/2018 16:00	12.5	71.9	0	0.014	0	0	0	0.003	0.006	
11/14/2018 16:00										42.43143;-76.49757
11/14/2018 16:01			0	0.014	0	0	0	0.003	0.006	
11/14/2018 16:02			0	0.014	0	0	0	0.003	0.006	
11/14/2018 16:03			0	0.014	0	0	0	0.003	0.006	
11/14/2018 16:04			0	0.014	0	0	0	0.003	0.006	
11/14/2018 16:05	12.5	71.9	0	0.014	0	0	0	0.003	0.006	
11/14/2018 16:05										42.43144;-76.49753
11/14/2018 16:06			0	0.014	0	0	0	0.003	0.007	
11/14/2018 16:07			0	0.065	0	0	0.035	0.003	0.007	
11/14/2018 16:08			0	0.124	0.002	0	0.081	0.003	0.005	
11/14/2018 16:09			0	0.124	0.004	0	0.006	0.003	0.006	
11/14/2018 16:10	12.5	75.9	0	0.124	0.004	0	0	0.003	0.006	
11/14/2018 16:10										42.43145;-76.49754
11/14/2018 16:11			0	0.124	0.005	0	0.021	0.003	0.006	
11/14/2018 16:12			0	0.124	0.006	0	0.077	0.003	0.006	
11/14/2018 16:13			0	0.216	0.009	0	0.041	0.003	0.007	
11/14/2018 16:14			0	0.216	0.011	0	0.05	0.003	0.006	
11/14/2018 16:15	12.5	77.9	0	0.216	0.013	0	0	0.003	0.006	
11/14/2018 16:15										42.43145;-76.49754
11/14/2018 16:16			0	0.216	0.013	0	0	0.003	0.006	
11/14/2018 16:17			0	0.216	0.013	0	0.001	0.003	0.006	
11/14/2018 16:18			0	0.216	0.014	0	0	0.003	0.006	
11/14/2018 16:19			0	0.216	0.014	0	0	0.003	0.006	
11/14/2018 16:20	12.5	79	0	0.216	0.015	0	0	0.003	0.007	
11/14/2018 16:20										42.43144;-76.49751
11/14/2018 16:21			0	0.216	0.015	0	0	0.003	0.007	
11/14/2018 16:22			0	0.216	0.015	0	0	0.003	0.006	
11/14/2018 16:23			0	0.216	0.013	0	0	0.003	0.006	
11/14/2018 16:24			0	0.216	0.011	0	0	0.003	0.006	
11/14/2018 16:25	12.5	73.9	0	0.216	0.012	0	0	0.003	0.006	
11/14/2018 16:25										42.4315;-76.4975
11/14/2018 16:26			0	0.216	0.012	0	0.021	0.003	0.006	
11/14/2018 16:27			0	0.216	0.012	0	0	0.003	0.006	
11/14/2018 16:28			0	0.216	0.01	0	0.025	0.003	0.005	
11/14/2018 16:29			0	0.216	0.01	0	0.09	0.003	0.005	
11/14/2018 16:30	12.5	71.9	0	0.216	0.012	0	0.085	0.003	0.006	
11/14/2018 16:30										42.4314;-76.49751
11/14/2018 16:31			0	0.216	0.017	0	0.141	0.003	0.006	
11/14/2018 16:32			0	0.216	0.026	0.001	0.071	0.003	0.006	
11/14/2018 16:33			0	0.216	0.032	0.001	0.108	0.003	0.006	
11/14/2018 16:34			0	0.216	0.042	0.001	0.106	0.004	0.006	
11/14/2018 16:35	12.5	72.9	0	0.216	0.048	0.001	0.055	0.004	0.006	
11/14/2018 16:35										42.43142;-76.49752
11/14/2018 16:36			0	0.216	0.054	0.002	0.122	0.004	0.006	
11/14/2018 16:37			0	0.216	0.059	0.002	0.107	0.004	0.006	
11/14/2018 16:38			0	0.216	0.063	0.002	0.011	0.004	0.006	
11/14/2018 16:39			0	0.216	0.066	0.002	0.112	0.004	0.006	
11/14/2018 16:40	12.5	81	0	0.216	0.069	0.002	0.072	0.004	0.006	
11/14/2018 16:40										42.43137;-76.49765
11/14/2018 16:41			0	0.216	0.07	0.002	0	0.004	0.006	
11/14/2018 16:42			0	0.216	0.069	0.002	0.091	0.004	0.006	
11/14/2018 16:43			0	0.216	0.073	0.002	0.128	0.004	0.006	
11/14/2018 16:44			0	0.216	0.079	0.003	0.127	0.004	0.006	
11/14/2018 16:45	12.5	73.9	0	0.216	0.083	0.003	0.049	0.004	0.006	
11/14/2018 16:45										42.43137;-76.49764
11/14/2018 16:46			0	0.216	0.083	0.003	0.069	0.004	0.006	
11/14/2018 16:47			0	0.216	0.078	0.003	0.03	0.004	0.006	
11/14/2018 16:48			0	0.216	0.073	0.003	0.064	0.004	0.006	
11/14/2018 16:49			0	0.216	0.067	0.003	0.117	0.004	0.006	
11/14/2018 16:50	12.5	72.9	0	0.216	0.065	0.004	0.081	0.004	0.006	
11/14/2018 16:50										42.4314;-76.49751
11/14/2018 16:51			0	0.216	0.064	0.004	0.109	0.004	0.006	
11/14/2018 16:52			0	0.216	0.068	0.004	0.123	0.004	0.006	
11/14/2018 16:53			0	0.216	0.072	0.004	0.09	0.004	0.006	

Community Air Monitoring Program - Downwind Station
October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/14/2018 16:54			0	0.243	0.076	0.004	0.243	0.004	0.006	
11/14/2018 16:55	12.5	85	0	0.809	0.093	0.005	0.351	0.004	0.007	
11/14/2018 16:55										42.43144;-76.49748
11/14/2018 16:56			0	5.292	0.143	0.007	0.276	0.004	0.007	
11/14/2018 16:57			0	5.292	0.158	0.007	0.212	0.004	0.007	
11/14/2018 16:58			0	5.292	0.166	0.008	0.197	0.004	0.007	
11/14/2018 16:59			0	5.292	0.169	0.008	0.066	0.004	0.008	
11/14/2018 17:00	12.5	72.9	0	5.292	0.173	0.008	0.156	0.004	0.007	
11/14/2018 17:00										42.43142;-76.49751
11/14/2018 17:01			0	5.292	0.179	0.009	0.179	0.004	0.007	
11/14/2018 17:02			0	5.292	0.187	0.009	0.215	0.004	0.007	
11/14/2018 17:03			0	5.292	0.194	0.009	0.13	0.004	0.007	
11/14/2018 17:04			0	5.292	0.201	0.01	0.117	0.004	0.007	
11/14/2018 17:05	12.5	73.9	0	5.292	0.207	0.01	0.148	0.004	0.008	
11/14/2018 17:05										42.43149;-76.49752
11/14/2018 17:06			0	5.292	0.209	0.01	0.064	0.004	0.008	
11/14/2018 17:07			0	5.292	0.206	0.01	0.053	0.004	0.007	
11/14/2018 17:08			0	5.292	0.203	0.011	0.061	0.004	0.007	
11/14/2018 17:09			0	5.292	0.199	0.011	0.001	0.004	0.008	
11/14/2018 17:10	12.5	73.9	0	5.292	0.179	0.011	0.003	0.004	0.008	
11/14/2018 17:10										42.43139;-76.49752
11/14/2018 17:11			0	5.292	0.131	0.011	0.044	0.004	0.008	
11/14/2018 17:12			0	5.292	0.121	0.011	0.092	0.004	0.008	
11/14/2018 17:13			0	5.292	0.112	0.011	0.058	0.004	0.008	
11/14/2018 17:14			0	5.292	0.102	0.011	0.054	0.004	0.008	
11/14/2018 17:15	12.5	73.9	0	5.292	0.094	0.011	0.098	0.004	0.008	
11/14/2018 17:15										42.43147;-76.49754
11/14/2018 17:16			0	5.292	0.09	0.012	0.068	0.004	0.01	
11/14/2018 17:17			0	5.292	0.083	0.012	0.016	0.004	0.008	
11/14/2018 17:18			0	5.292	0.079	0.012	0.079	0.004	0.008	
11/14/2018 17:19			0	5.292	0.076	0.012	0.064	0.004	0.008	
11/14/2018 17:20	12.4	76.9	0	5.292	0.072	0.012	0.131	0.004	0.007	
11/14/2018 17:20										42.43147;-76.49752
11/14/2018 17:21			0	5.292	0.073	0.013	0.109	0.004	0.007	
11/14/2018 17:22			0	5.292	0.076	0.013	0.154	0.004	0.007	
11/14/2018 17:23			0	5.292	0.079	0.013	0.119	0.004	0.008	
11/14/2018 17:24			0	5.292	0.085	0.013	0.122	0.004	0.007	
11/14/2018 17:25	12.4	73.9	0	5.292	0.092	0.014	0.076	0.004	0.007	
11/14/2018 17:25										42.43146;-76.49754
11/14/2018 17:26			0	5.292	0.096	0.014	0.099	0.004	0.007	
11/14/2018 17:27			0	5.292	0.098	0.014	0.046	0.004	0.007	
11/14/2018 17:28			0	5.292	0.098	0.014	0.008	0.004	0.007	
11/14/2018 17:29			0	5.292	0.098	0.014	0.002	0.004	0.007	
11/14/2018 17:30	12.4	75.9	0	5.292	0.097	0.014	0.01	0.004	0.007	
11/14/2018 17:30										42.43146;-76.49754
11/14/2018 17:31			0	5.292	0.093	0.014	0.07	0.004	0.007	
11/14/2018 17:32			0	5.292	0.092	0.015	0.024	0.004	0.007	
11/14/2018 17:33			0	5.292	0.092	0.015	0.05	0.004	0.007	
11/14/2018 17:34			0	5.292	0.09	0.015	0.076	0.004	0.007	
11/14/2018 17:35	12.4	72.9	0	5.292	0.088	0.015	0.118	0.004	0.007	
11/14/2018 17:35										42.43147;-76.49754
11/14/2018 17:36			0	5.292	0.089	0.015	0.052	0.004	0.007	
11/14/2018 17:37			0	5.292	0.089	0.016	0.081	0.004	0.007	
11/14/2018 17:38			0	5.292	0.087	0.016	0.591	0.004	0.007	
11/14/2018 17:39			0	5.292	0.096	0.016	0.203	0.004	0.007	
11/14/2018 17:40	12.4	72.9	0	5.292	0.115	0.017	0.171	0.004	0.006	
11/14/2018 17:40										42.43146;-76.49752
11/14/2018 17:41			0	5.292	0.128	0.018	0.188	0.004	0.006	
11/14/2018 17:42			0	5.292	0.127	0.018	0.036	0.004	0.006	
11/14/2018 17:43			0	5.292	0.13	0.018	0.093	0.004	0.006	
11/14/2018 17:44			0	5.292	0.132	0.018	0.205	0.005	0.006	
11/14/2018 17:45	12.4	75.9	0	5.292	0.144	0.019	0.361	0.005	0.006	
11/14/2018 17:45										42.43145;-76.49752
11/14/2018 17:46			0	5.292	0.16	0.019	0.212	0.005	0.006	
11/14/2018 17:47			0	5.292	0.167	0.02	0.116	0.005	0.006	
11/14/2018 17:48			0	5.292	0.195	0.021	0.207	0.005	0.007	
11/14/2018 17:49			0	5.292	0.214	0.022	0.326	0.005	0.006	
11/14/2018 17:50	12.4	68.8	0	5.292	0.226	0.022	0.279	0.005	0.007	
11/14/2018 17:50										42.43147;-76.49753
11/14/2018 17:51			0	5.292	0.228	0.022	0.026	0.005	0.007	
11/14/2018 17:52			0	5.292	0.223	0.023	0.075	0.005	0.007	
11/14/2018 17:53			0	5.292	0.224	0.023	0.127	0.005	0.007	
11/14/2018 17:54			0	5.292	0.216	0.023	0.115	0.005	0.007	
11/14/2018 17:55	12.4	73.9	0	5.292	0.204	0.024	0.665	0.005	0.007	
11/14/2018 17:55										42.43146;-76.49751
11/14/2018 17:56			0	5.292	0.215	0.025	0.352	0.005	0.007	
11/14/2018 17:57			0	5.292	0.226	0.025	0.151	0.005	0.007	
11/14/2018 17:58			0	5.292	0.235	0.026	0.228	0.005	0.007	
11/14/2018 17:59			0	5.292	0.247	0.026	0.254	0.005	0.007	
11/14/2018 18:00	12.4	72.9	0	5.292	0.246	0.027	0.18	0.005	0.006	
11/14/2018 18:00										42.43144;-76.49753
11/14/2018 18:01			0	5.292	0.239	0.027	0.299	0.005	0.007	
11/14/2018 18:02			0	5.292	0.243	0.027	0.255	0.005	0.007	
11/14/2018 18:03			0	5.292	0.229	0.028	0.237	0.005	0.007	
11/14/2018 18:04			0	5.292	0.219	0.028	0.176	0.005	0.007	
11/14/2018 18:05	12.4	73.9	0	5.292	0.214	0.029	0.135	0.005	0.006	
11/14/2018 18:05										42.43139;-76.49746
11/14/2018 18:06			0	5.292	0.215	0.029	0.199	0.005	0.006	
11/14/2018 18:07			0	5.292	0.224	0.03	0.185	0.005	0.006	
11/14/2018 18:08			0	5.292	0.23	0.03	0.228	0.005	0.006	
11/14/2018 18:09			0	5.292	0.234	0.03	0.251	0.005	0.006	
11/14/2018 18:10	12.4	72.9	0	5.292	0.232	0.031	0.228	0.005	0.006	
11/14/2018 18:10										42.43145;-76.49746
11/14/2018 18:11			0	5.292	0.215	0.031	0.259	0.005	0.006	
11/14/2018 18:12			0	5.292	0.213	0.032	0.284	0.005	0.006	
11/14/2018 18:13			0	5.292	0.215	0.032	0.204	0.005	0.006	
11/14/2018 18:14			0	5.292	0.214	0.033	0.221	0.005	0.006	
11/14/2018 18:15	12.3	73.9	0	5.292	0.213	0.033	0.157	0.005	0.006	
11/14/2018 18:15										42.43144;-76.49752
11/14/2018 18:16			0	5.292	0.213	0.034	0.19	0.005	0.006	
11/14/2018 18:17			0	5.292	0.21	0.034	0.159	0.005	0.006	
11/14/2018 18:18			0	5.292	0.206	0.034	0.205	0.005	0.006	
11/14/2018 18:19			0	5.292	0.202	0.035	0.182	0.005	0.006	
11/14/2018 18:20	12.3	72.9	0	5.292	0.205	0.035	0.18	0.005	0.006	
11/14/2018 18:20										42.43143;-76.49748
11/14/2018 18:21			0	5.292	0.207	0.036	0.207	0.005	0.006	
11/14/2018 18:22			0	5.292	0.207	0.036	0.209	0.005	0.006	
11/14/2018 18:23			0	5.292	0.207	0.037	0.24	0.005	0.006	
11/14/2018 18:24			0	5.292	0.206	0.037	0.093	0.005	0.006	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/14/2018 18:25	12.3	75.9	0	5.292	0.201	0.037	0.214	0.005	0.006	
11/14/2018 18:25										42.43144;-76.49748
11/14/2018 18:26			0	5.292	0.199	0.038	0.221	0.005	0.006	
11/14/2018 18:27			0	5.292	0.194	0.038	0.119	0.005	0.006	
11/14/2018 18:28			0	5.292	0.183	0.038	0.171	0.005	0.006	
11/14/2018 18:29			0	5.292	0.176	0.038	0.112	0.005	0.006	
11/14/2018 18:30	12.3	73.9	0	5.292	0.168	0.039	0.119	0.005	0.006	
11/14/2018 18:30										42.43143;-76.4975
11/14/2018 18:31			0	5.292	0.165	0.039	0.137	0.005	0.006	
11/14/2018 18:32			0	5.292	0.161	0.039	0.24	0.005	0.006	
11/14/2018 18:33			0	5.292	0.16	0.039	0.157	0.005	0.006	
11/14/2018 18:34			0	5.292	0.161	0.04	0.195	0.005	0.006	
11/14/2018 18:35	12.3	73.9	0	5.292	0.159	0.04	0.248	0.005	0.007	
11/14/2018 18:35										42.4314;-76.49753
11/14/2018 18:36			0	5.292	0.158	0.041	0.206	0.005	0.007	
11/14/2018 18:37			0	5.292	0.164	0.041	0.23	0.005	0.007	
11/14/2018 18:38			0	5.292	0.164	0.042	0.241	0.005	0.006	
11/14/2018 18:39			0	5.292	0.164	0.042	0.17	0.005	0.006	
11/14/2018 18:40	12.3	79	0	5.292	0.166	0.042	0.111	0.005	0.007	
11/14/2018 18:40										42.43139;-76.49753
11/14/2018 18:41			0	5.292	0.162	0.043	0.098	0.005	0.008	
11/14/2018 18:42			0	5.292	0.163	0.043	0.102	0.005	0.007	
11/14/2018 18:43			0	5.292	0.167	0.043	0.108	0.005	0.007	
11/14/2018 18:44			0	5.292	0.172	0.044	0.176	0.005	0.007	
11/14/2018 18:45	12.3	79	0	5.292	0.179	0.044	0.19	0.005	0.007	
11/14/2018 18:45										42.4314;-76.4975
11/14/2018 18:46			0	5.292	0.183	0.045	0.242	0.005	0.007	
11/14/2018 18:47			0	5.292	0.189	0.045	0.182	0.005	0.007	
11/14/2018 18:48			0	5.292	0.189	0.045	0.146	0.005	0.007	
11/14/2018 18:49			0	5.292	0.186	0.046	0.248	0.005	0.007	
11/14/2018 18:50	12.3	72.9	0	5.292	0.19	0.046	0.248	0.005	0.007	
11/14/2018 18:50										42.43141;-76.49761
11/14/2018 18:51			0	5.292	0.192	0.047	0.269	0.005	0.007	
11/14/2018 18:52			0	5.292	0.192	0.047	0.157	0.005	0.007	
11/14/2018 18:53			0	5.292	0.193	0.048	0.292	0.005	0.007	
11/14/2018 18:54			0	5.292	0.197	0.048	0.267	0.005	0.007	
11/14/2018 18:55	12.3	86	0	5.292	0.203	0.049	0.241	0.005	0.007	
11/14/2018 18:55										42.43142;-76.4975
11/14/2018 18:56			0	5.292	0.211	0.049	0.302	0.005	0.007	
11/14/2018 18:57			0	5.292	0.217	0.05	0.249	0.005	0.007	
11/14/2018 18:58			0	5.292	0.224	0.05	0.22	0.006	0.007	
11/14/2018 18:59			0	5.292	0.229	0.051	0.268	0.006	0.007	
11/14/2018 19:00	12.3	73.9	0	5.292	0.231	0.051	0.192	0.006	0.007	
11/14/2018 19:00										42.43142;-76.49751
11/14/2018 19:01			0	5.292	0.233	0.052	0.244	0.006	0.007	
11/14/2018 19:02			0	5.292	0.235	0.052	0.22	0.006	0.007	
11/14/2018 19:03			0	5.292	0.235	0.053	0.191	0.006	0.007	
11/14/2018 19:04			0	5.292	0.239	0.053	0.292	0.006	0.007	
11/14/2018 19:05	12.2	74.9	0	5.292	0.24	0.054	0.324	0.006	0.007	
11/14/2018 19:05										42.4314;-76.49755
11/14/2018 19:06			0	5.292	0.241	0.054	0.187	0.006	0.007	
11/14/2018 19:07			0	5.292	0.237	0.055	0.155	0.006	0.007	
11/14/2018 19:08			0	5.292	0.237	0.055	0.224	0.006	0.007	
11/14/2018 19:09			0	5.292	0.235	0.056	0.25	0.006	0.007	
11/14/2018 19:10	12.2	74.9	0	5.292	0.239	0.056	0.348	0.006	0.007	
11/14/2018 19:10										42.43142;-76.49751
11/14/2018 19:11			0	5.292	0.241	0.057	0.234	0.006	0.007	
11/14/2018 19:12			0	5.292	0.24	0.057	0.234	0.006	0.007	
11/14/2018 19:13			0	5.292	0.239	0.058	0.271	0.006	0.007	
11/14/2018 19:14			0	5.292	0.235	0.058	0.225	0.006	0.007	
11/14/2018 19:15	12.2	74.9	0	5.292	0.235	0.059	0.303	0.006	0.007	
11/14/2018 19:15										42.43139;-76.49754
11/14/2018 19:16			0	5.292	0.237	0.059	0.262	0.006	0.008	
11/14/2018 19:17			0	5.292	0.237	0.06	0.218	0.006	0.008	
11/14/2018 19:18			0	5.292	0.24	0.06	0.18	0.006	0.008	
11/14/2018 19:19			0	5.292	0.239	0.061	0.241	0.006	0.008	
11/14/2018 19:20	12.2	74.9	0	5.292	0.233	0.061	0.145	0.006	0.008	
11/14/2018 19:20										42.43138;-76.49757
11/14/2018 19:21			0	5.292	0.229	0.061	0.144	0.006	0.008	
11/14/2018 19:22			0	5.292	0.227	0.062	0.157	0.006	0.008	
11/14/2018 19:23			0	5.292	0.223	0.062	0.161	0.006	0.008	
11/14/2018 19:24			0	5.292	0.222	0.063	0.204	0.006	0.008	
11/14/2018 19:25	12.2	72.9	0	5.292	0.215	0.063	0.198	0.006	0.008	
11/14/2018 19:25										42.43144;-76.49755
11/14/2018 19:26			0	5.292	0.211	0.063	0.221	0.006	0.008	
11/14/2018 19:27			0	5.292	0.208	0.064	0.263	0.006	0.008	
11/14/2018 19:28			0	5.292	0.214	0.064	0.312	0.006	0.008	
11/14/2018 19:29			0	5.292	0.232	0.066	0.444	0.006	0.008	
11/14/2018 19:30	12.2	73.9	0	5.292	0.241	0.066	0.322	0.006	0.008	
11/14/2018 19:30										42.43144;-76.49757
11/14/2018 19:31			0	5.292	0.242	0.067	0.285	0.006	0.008	
11/14/2018 19:32			0	5.292	0.243	0.067	0.104	0.006	0.008	
11/14/2018 19:33			0	5.292	0.239	0.068	0.124	0.006	0.008	
11/14/2018 19:34			0	5.292	0.232	0.068	0.149	0.006	0.008	
11/14/2018 19:35	12.2	77.9	0	5.292	0.232	0.068	0.199	0.006	0.008	
11/14/2018 19:35										42.43145;-76.49755
11/14/2018 19:36			0	5.292	0.233	0.069	0.266	0.006	0.008	
11/14/2018 19:37			0	5.292	0.237	0.069	0.213	0.006	0.008	
11/14/2018 19:38			0	5.292	0.242	0.07	0.241	0.006	0.008	
11/14/2018 19:39			0	5.292	0.247	0.07	0.31	0.006	0.008	
11/14/2018 19:40	12.2	74.9	0	5.292	0.253	0.071	0.28	0.006	0.008	
11/14/2018 19:40										42.43142;-76.49754
11/14/2018 19:41			0	5.292	0.259	0.072	0.3	0.006	0.008	
11/14/2018 19:42			0	5.292	0.264	0.072	0.238	0.006	0.008	
11/14/2018 19:43			0	5.292	0.259	0.073	0.238	0.006	0.008	
11/14/2018 19:44			0	5.292	0.243	0.073	0.266	0.006	0.008	
11/14/2018 19:45	12.2	77.9	0	5.292	0.237	0.074	0.261	0.006	0.008	
11/14/2018 19:45										42.43143;-76.49754
11/14/2018 19:46			0	5.292	0.235	0.074	0.22	0.006	0.008	
11/14/2018 19:47			0	5.292	0.235	0.075	0.244	0.006	0.008	
11/14/2018 19:48			0	5.292	0.24	0.075	0.241	0.006	0.008	
11/14/2018 19:49			0	5.292	0.25	0.076	0.334	0.006	0.008	
11/14/2018 19:50	12.2	80	0	5.292	0.255	0.076	0.175	0.006	0.008	
11/14/2018 19:50										42.43142;-76.49752
11/14/2018 19:51			0	5.292	0.257	0.077	0.315	0.006	0.008	
11/14/2018 19:52			0	5.292	0.257	0.077	0.217	0.006	0.009	
11/14/2018 19:53			0	5.292	0.256	0.078	0.234	0.006	0.008	
11/14/2018 19:54			0	5.292	0.253	0.078	0.226	0.006	0.009	
11/14/2018 19:55	12.2	84	0	5.292	0.253	0.079	0.265	0.006	0.008	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/14/2018 19:55										42.43144;-76.49753
11/14/2018 19:56			0	5.292	0.249	0.079	0.244	0.006	0.008	
11/14/2018 19:57			0	5.292	0.249	0.08	0.235	0.006	0.008	
11/14/2018 19:58			0	5.292	0.248	0.08	0.237	0.006	0.008	
11/14/2018 19:59			0	5.292	0.248	0.081	0.201	0.007	0.008	
11/14/2018 20:00	12.2	75.9	0	5.292	0.245	0.081	0.255	0.007	0.008	
11/14/2018 20:00										42.43144;-76.49755
11/14/2018 20:01			0	5.292	0.245	0.082	0.205	0.007	0.009	
11/14/2018 20:02			0	5.292	0.244	0.082	0.172	0.007	0.009	
11/14/2018 20:03			0	5.292	0.243	0.083	0.227	0.007	0.009	
11/14/2018 20:04			0	5.292	0.24	0.083	0.2	0.007	0.009	
11/14/2018 20:05	12.2	73.9	0	5.292	0.238	0.084	0.189	0.007	0.008	
11/14/2018 20:05										42.43137;-76.49754
11/14/2018 20:06			0	5.292	0.237	0.084	0.27	0.007	0.008	
11/14/2018 20:07			0	5.292	0.239	0.085	0.308	0.007	0.008	
11/14/2018 20:08			0	5.292	0.245	0.085	0.266	0.007	0.008	
11/14/2018 20:09			0	5.292	0.246	0.086	0.212	0.007	0.009	
11/14/2018 20:10	12.2	74.9	0	5.292	0.242	0.086	0.135	0.007	0.008	
11/14/2018 20:10										42.43137;-76.49754
11/14/2018 20:11			0	5.292	0.24	0.087	0.233	0.007	0.008	
11/14/2018 20:12			0	5.292	0.24	0.087	0.251	0.007	0.008	
11/14/2018 20:13			0	5.292	0.241	0.088	0.277	0.007	0.008	
11/14/2018 20:14			0	5.292	0.244	0.089	0.236	0.007	0.008	
11/14/2018 20:15	12.1	86	0	5.292	0.244	0.089	0.233	0.007	0.008	
11/14/2018 20:15										42.43139;-76.49752
11/14/2018 20:16			0	5.292	0.245	0.09	0.247	0.007	0.008	
11/14/2018 20:17			0	5.292	0.246	0.09	0.181	0.007	0.008	
11/14/2018 20:18			0	5.292	0.246	0.09	0.225	0.007	0.008	
11/14/2018 20:19			0	5.292	0.246	0.091	0.255	0.007	0.008	
11/14/2018 20:20	12.1	74.9	0	5.292	0.251	0.092	0.307	0.007	0.008	
11/14/2018 20:20										42.43137;-76.49753
11/14/2018 20:21			0	5.292	0.256	0.092	0.337	0.007	0.008	
11/14/2018 20:22			0	5.292	0.259	0.093	0.322	0.007	0.008	
11/14/2018 20:23			0	5.292	0.26	0.094	0.271	0.007	0.007	
11/14/2018 20:24			0	5.292	0.261	0.094	0.227	0.007	0.008	
11/14/2018 20:25	12.1	76.9	0	5.292	0.264	0.095	0.309	0.007	0.008	
11/14/2018 20:25										42.43139;-76.49753
11/14/2018 20:26			0	5.292	0.266	0.095	0.299	0.007	0.008	
11/14/2018 20:27			0	5.292	0.266	0.096	0.216	0.007	0.008	
11/14/2018 20:28			0	5.292	0.274	0.097	0.236	0.007	0.01	
11/14/2018 20:29			0	5.292	0.272	0.097	0.225	0.007	0.008	
11/14/2018 20:30	12.1	75.9	0	5.292	0.271	0.097	0.251	0.007	0.007	
11/14/2018 20:30										42.43142;-76.49751
11/14/2018 20:31			0	5.292	0.266	0.098	0.182	0.007	0.007	
11/14/2018 20:32			0	5.292	0.264	0.098	0.203	0.007	0.008	
11/14/2018 20:33			0	5.292	0.262	0.099	0.208	0.007	0.008	
11/14/2018 20:34			0	5.292	0.26	0.099	0.235	0.007	0.008	
11/14/2018 20:35	12.1	83	0	5.292	0.253	0.099	0.162	0.007	0.008	
11/14/2018 20:35										42.43139;-76.49755
11/14/2018 20:36			0	5.292	0.243	0.1	0.108	0.007	0.007	
11/14/2018 20:37			0	5.292	0.231	0.1	0.154	0.007	0.008	
11/14/2018 20:38			0	5.292	0.219	0.1	0.199	0.007	0.008	
11/14/2018 20:39			0	5.292	0.212	0.101	0.174	0.007	0.008	
11/14/2018 20:40	12.1	75.9	0	5.292	0.204	0.101	0.159	0.007	0.008	
11/14/2018 20:40										42.43142;-76.49754
11/14/2018 20:41			0	5.292	0.198	0.101	0.143	0.007	0.008	
11/14/2018 20:42			0	5.292	0.19	0.102	0.13	0.007	0.008	
11/14/2018 20:43			0	5.292	0.174	0.102	0.129	0.007	0.008	
11/14/2018 20:44			0	5.292	0.166	0.102	0.12	0.007	0.008	
11/14/2018 20:45	12.1	74.9	0	5.292	0.162	0.103	0.185	0.007	0.008	
11/14/2018 20:45										42.4314;-76.49754
11/14/2018 20:46			0	5.292	0.162	0.103	0.21	0.007	0.008	
11/14/2018 20:47			0	5.292	0.164	0.103	0.248	0.007	0.008	
11/14/2018 20:48			0	5.292	0.162	0.104	0.147	0.007	0.008	
11/14/2018 20:49			0	5.292	0.157	0.104	0.185	0.007	0.008	
11/14/2018 20:50	12.1	76.9	0	5.292	0.154	0.104	0.173	0.007	0.008	
11/14/2018 20:50										42.43142;-76.49754
11/14/2018 20:51			0	5.292	0.154	0.105	0.201	0.007	0.008	
11/14/2018 20:52			0	5.292	0.156	0.105	0.164	0.007	0.008	
11/14/2018 20:53			0	5.292	0.155	0.105	0.085	0.007	0.008	
11/14/2018 20:54			0	5.292	0.151	0.105	0.137	0.007	0.008	
11/14/2018 20:55	12.1	74.9	0	5.292	0.148	0.106	0.108	0.007	0.008	
11/14/2018 20:55										42.43143;-76.49754
11/14/2018 20:56			0	5.292	0.149	0.106	0.127	0.007	0.008	
11/14/2018 20:57			0	5.292	0.148	0.106	0.13	0.007	0.008	
11/14/2018 20:58			0	5.292	0.148	0.107	0.185	0.007	0.008	
11/14/2018 20:59			0	5.292	0.152	0.107	0.157	0.007	0.008	
11/14/2018 21:00	12.1	79	0	5.292	0.15	0.107	0.153	0.007	0.008	
11/14/2018 21:00										42.43144;-76.49756
11/14/2018 21:01			0	5.292	0.147	0.108	0.167	0.007	0.008	
11/14/2018 21:02			0	5.292	0.144	0.108	0.164	0.007	0.008	
11/14/2018 21:03			0	5.292	0.144	0.108	0.166	0.007	0.009	
11/14/2018 21:04			0	5.292	0.146	0.109	0.138	0.007	0.008	
11/14/2018 21:05	12.1	75.9	0	5.292	0.145	0.109	0.148	0.007	0.009	
11/14/2018 21:05										42.43141;-76.4975
11/14/2018 21:06			0	5.292	0.146	0.109	0.191	0.007	0.009	
11/14/2018 21:07			0	5.292	0.144	0.11	0.07	0.007	0.008	
11/14/2018 21:08			0	5.292	0.144	0.11	0.12	0.007	0.008	
11/14/2018 21:09			0	5.292	0.147	0.11	0.161	0.007	0.009	
11/14/2018 21:10	12.1	74.9	0	5.292	0.148	0.11	0.148	0.007	0.008	
11/14/2018 21:10										42.4314;-76.49755
11/14/2018 21:11			0	5.292	0.144	0.111	0.091	0.007	0.008	
11/14/2018 21:12			0	5.292	0.142	0.111	0.117	0.007	0.009	
11/14/2018 21:13			0	5.292	0.142	0.111	0.118	0.007	0.008	
11/14/2018 21:14			0	5.292	0.143	0.111	0.153	0.007	0.008	
11/14/2018 21:15	12.1	74.9	0	5.292	0.144	0.112	0.106	0.007	0.008	
11/14/2018 21:15										42.43141;-76.49753
11/14/2018 21:16			0	5.292	0.141	0.112	0.095	0.007	0.009	
11/14/2018 21:17			0	5.292	0.137	0.112	0.123	0.007	0.008	
11/14/2018 21:18			0	5.292	0.135	0.112	0.097	0.007	0.009	
11/14/2018 21:19			0	5.292	0.133	0.113	0.191	0.007	0.008	
11/14/2018 21:20	12.1	79	0	5.292	0.135	0.113	0.152	0.007	0.008	
11/14/2018 21:20										42.43144;-76.49753
11/14/2018 21:21			0	5.292	0.13	0.113	0.065	0.007	0.008	
11/14/2018 21:22			0	5.292	0.127	0.113	0.072	0.007	0.008	
11/14/2018 21:23			0	5.292	0.125	0.114	0.096	0.007	0.008	
11/14/2018 21:24			0	5.292	0.124	0.114	0.146	0.007	0.008	
11/14/2018 21:25	12.1	74.9	0	5.292	0.124	0.114	0.117	0.007	0.008	
11/14/2018 21:25										42.43144;-76.49752

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October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/14/2018 21:26			0	5.292	0.126	0.114	0.122	0.007	0.008	
11/14/2018 21:27			0	5.292	0.124	0.115	0.055	0.007	0.008	
11/14/2018 21:28			0	5.292	0.12	0.115	0.072	0.007	0.009	
11/14/2018 21:29			0	5.292	0.114	0.115	0.172	0.007	0.008	
11/14/2018 21:30	12.1	85	0	5.292	0.112	0.115	0.135	0.007	0.009	
11/14/2018 21:30										42.43144;-76.49752
11/14/2018 21:31			0	5.292	0.111	0.115	0.087	0.007	0.009	
11/14/2018 21:32			0	5.292	0.112	0.116	0.124	0.007	0.009	
11/14/2018 21:33			0	5.292	0.111	0.116	0.123	0.007	0.009	
11/14/2018 21:34			0	5.292	0.111	0.116	0.106	0.007	0.009	
11/14/2018 21:35	12.1	76.9	0	5.292	0.107	0.116	0.098	0.007	0.009	
11/14/2018 21:35										42.43142;-76.49751
11/14/2018 21:36			0	5.292	0.11	0.117	0.147	0.007	0.009	
11/14/2018 21:37			0	5.292	0.114	0.117	0.176	0.007	0.009	
11/14/2018 21:38			0	5.292	0.117	0.117	0.121	0.007	0.009	
11/14/2018 21:39			0	5.292	0.115	0.118	0.089	0.007	0.009	
11/14/2018 21:40	12.1	74.9	0	5.292	0.11	0.118	0.057	0.007	0.009	
11/14/2018 21:40										42.43145;-76.49755
11/14/2018 21:41			0	5.292	0.109	0.118	0.059	0.007	0.009	
11/14/2018 21:42			0	5.292	0.108	0.118	0.112	0.007	0.009	
11/14/2018 21:43			0	5.292	0.109	0.118	0.147	0.007	0.01	
11/14/2018 21:44			0	5.292	0.113	0.119	0.219	0.007	0.009	
11/14/2018 21:45	12.2	76.9							0.009	
11/14/2018 21:45										42.43143;-76.49756
11/14/2018 21:50	12.2	79								
11/14/2018 21:50										42.43227;-76.49709
11/14/2018 21:55	12.2	77.9								42.4325;-76.49718
11/14/2018 22:00	12.2	81								42.43228;-76.49722
11/14/2018 22:05	12.2	79								42.43221;-76.49709
11/14/2018 22:10	12.1	88.1								
11/14/2018 22:10										42.43233;-76.49687
11/14/2018 22:15	12.2	80								
11/14/2018 22:15										42.43208;-76.49699
11/14/2018 22:20	12.2	75.9								
11/14/2018 22:20										42.4321;-76.49709
11/14/2018 22:25	12.2	72.9								42.43234;-76.49699
11/14/2018 22:30	12.2	85								42.43211;-76.4972
11/14/2018 22:35	12.2	76.9								42.43236;-76.49693
11/14/2018 22:40	12.2	77.9								
11/14/2018 22:40										42.43238;-76.49727
11/14/2018 22:45	12.2	72.9								
11/14/2018 22:45										42.43202;-76.49686
11/14/2018 22:50	12.2	75.9								
11/14/2018 22:50										42.43233;-76.49702
11/14/2018 22:55	12.2	89.1								42.43216;-76.49706
11/14/2018 23:00	12.2	74.9								42.43232;-76.49735
11/14/2018 23:05	12.2	77.9								42.43216;-76.49682
11/14/2018 23:10	12.2	77.9								
11/14/2018 23:10										42.43198;-76.49718
11/14/2018 23:15	12.2	75.9								
11/14/2018 23:15										42.43221;-76.49736
11/14/2018 23:20	12.2	74.9								
11/14/2018 23:20										42.43198;-76.49684
11/14/2018 23:25	12.2	72.9								42.43257;-76.49713
11/14/2018 23:30	12.2	72.9								42.4321;-76.49686
11/14/2018 23:35	12.2	83								42.43228;-76.49726
11/14/2018 23:40	12.2	75.9								
11/14/2018 23:40										42.43242;-76.49716
11/14/2018 23:45	12.2	73.9								
11/14/2018 23:45										42.43235;-76.49696
11/14/2018 23:50	12.2	91.1								
11/14/2018 23:50										42.43238;-76.49698
11/14/2018 23:55	12.2	75.9								42.43226;-76.49738
11/15/2018 0:00	12.2	73.9								42.43231;-76.49719
11/15/2018 0:05	12.2	73.9								42.43216;-76.4972
11/15/2018 0:10	12.2	72.9								
11/15/2018 0:10										42.43232;-76.49709
11/15/2018 0:15	12.2	80								
11/15/2018 0:15										42.43229;-76.49708
11/15/2018 0:20	12.2	83								
11/15/2018 0:20										42.43222;-76.49732
11/15/2018 0:25	12.2	71.9								42.43224;-76.49725
11/15/2018 0:30	12.2	75.9								42.43209;-76.49703
11/15/2018 0:35	12.2	74.9								42.43215;-76.49733
11/15/2018 0:40	12.2	77.9								
11/15/2018 0:40										42.43224;-76.49715
11/15/2018 0:45	12.2	80								
11/15/2018 0:45										42.43213;-76.49725
11/15/2018 0:50	12.2	90.1								
11/15/2018 0:50										42.43232;-76.49708
11/15/2018 0:55	12.2	75.9								42.4323;-76.49728
11/15/2018 1:00	12.2	75.9								42.43239;-76.49725
11/15/2018 1:05	12.2	72.9								42.43246;-76.49693
11/15/2018 1:10	12.2	71.9								
11/15/2018 1:10										42.4322;-76.49704
11/15/2018 1:15	12.2	73.9								
11/15/2018 1:15										42.4323;-76.49708
11/15/2018 1:20	12.2	83								
11/15/2018 1:20										42.43209;-76.49698
11/15/2018 1:25	12.2	79								42.43228;-76.49711
11/15/2018 1:30	12.2	82								42.43224;-76.49718
11/15/2018 1:35	12.2	73.9								42.43222;-76.49703
11/15/2018 1:40	12.2	87								
11/15/2018 1:40										42.43217;-76.49718
11/15/2018 1:45	12.2	74.9								
11/15/2018 1:45										42.43225;-76.49715
11/15/2018 1:50	12.2	86								
11/15/2018 1:50										42.43224;-76.49721
11/15/2018 1:55	12.2	82								42.43207;-76.49731
11/15/2018 2:00	12.3	79								42.43229;-76.4973
11/15/2018 2:05	12.2	79								42.43234;-76.49701
11/15/2018 2:10	12.3	72.9								
11/15/2018 2:10										42.43226;-76.49703
11/15/2018 2:15	12.2	82								
11/15/2018 2:15										42.43218;-76.49711
11/15/2018 2:20	12.2	80								
11/15/2018 2:20										42.43214;-76.49705
11/15/2018 2:25	12.3	74.9								42.4321;-76.49704
11/15/2018 2:30	12.3	76.9								42.43222;-76.49703

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October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/15/2018 2:35	12.2	77.9								42.43244;-76.49689
11/15/2018 2:40	12.3	71.9								
11/15/2018 2:40										42.43203;-76.49714
11/15/2018 2:45	12.2	75.9								
11/15/2018 2:45										42.43237;-76.49718
11/15/2018 2:50	12.3	83								
11/15/2018 2:50										42.43223;-76.49716
11/15/2018 2:55	12.2	85								42.43224;-76.49731
11/15/2018 3:00	12.2	72.9								42.43237;-76.49698
11/15/2018 3:05	12.2	73.9								42.43227;-76.49732
11/15/2018 3:10	12.2	71.9								
11/15/2018 3:10										42.43235;-76.49732
11/15/2018 3:15	12.2	73.9								
11/15/2018 3:15										42.43217;-76.49718
11/15/2018 3:20	12.2	72.9								
11/15/2018 3:20										42.43211;-76.49741
11/15/2018 3:25	12.2	75.9								42.43202;-76.49704
11/15/2018 3:30	12.2	73.9								42.43192;-76.49719
11/15/2018 3:35	12.2	76.9								42.43193;-76.49679
11/15/2018 3:40	12.2	77.9								
11/15/2018 3:40										42.4322;-76.49739
11/15/2018 3:45	12.2	73.9								
11/15/2018 3:45										42.43203;-76.49706
11/15/2018 3:50	12.2	76.9								
11/15/2018 3:50										42.43231;-76.49725
11/15/2018 3:55	12.2	86								42.43229;-76.49744
11/15/2018 4:00	12.2	72.9								42.43218;-76.49706
11/15/2018 4:05	12.2	74.9								42.43227;-76.49713
11/15/2018 4:10	12.2	72.9								
11/15/2018 4:10										42.43217;-76.49738
11/15/2018 4:15	12.2	79								
11/15/2018 4:15										42.43219;-76.49693
11/15/2018 4:20	12.2	80								
11/15/2018 4:20										42.43208;-76.49707
11/15/2018 4:25	12.2	73.9								42.43225;-76.49723
11/15/2018 4:30	12.2	80								42.43209;-76.49697
11/15/2018 4:35	12.2	88.1								42.43212;-76.49686
11/15/2018 4:40	12.2	73.9								
11/15/2018 4:40										42.43211;-76.49718
11/15/2018 4:45	12.2	88.1								
11/15/2018 4:45										42.43237;-76.49718
11/15/2018 4:50	12.2	73.9								
11/15/2018 4:50										42.43197;-76.49708
11/15/2018 4:55	12.2	84								42.43219;-76.49726
11/15/2018 5:00	12.2	76.9								42.43213;-76.49714
11/15/2018 5:05	12.2	73.9								42.43219;-76.49722
11/15/2018 5:10	12.2	77.9								
11/15/2018 5:10										42.43206;-76.49746
11/15/2018 5:15	12.2	74.9								
11/15/2018 5:15										42.43234;-76.49786
11/15/2018 5:20	12.2	73.9								
11/15/2018 5:20										42.43219;-76.49681
11/15/2018 5:25	12.2	79								42.43204;-76.49706
11/15/2018 5:30	12.2	74.9								42.43208;-76.49732
11/15/2018 5:35	12.2	74.9								42.432;-76.49689
11/15/2018 5:40	12.2	82								
11/15/2018 5:40										42.43204;-76.49709
11/15/2018 5:45	12.2	86								
11/15/2018 5:45										42.43231;-76.49668
11/15/2018 5:50	12.2	73.9								
11/15/2018 5:50										42.43218;-76.49729
11/15/2018 5:55	12.2	75.9								42.43205;-76.49702
11/15/2018 6:00	12.2	83								42.43239;-76.49715
11/15/2018 6:05	12.2	73.9								42.43219;-76.49686
11/15/2018 6:10	12.2	72.9								
11/15/2018 6:10										42.43181;-76.497
11/15/2018 6:15	12.2	80								
11/15/2018 6:15										42.43217;-76.49678
11/15/2018 6:20	12.2	80								
11/15/2018 6:20										42.43247;-76.49696
11/15/2018 6:25	12.2	73.9								42.43211;-76.49683
11/15/2018 6:30	12.2	83								42.43225;-76.49737
11/15/2018 6:35	12.2	73.9								42.43217;-76.4972
11/15/2018 6:40	12.2	72.9								
11/15/2018 6:40										42.43229;-76.49722
11/15/2018 6:45	12.2	73.9								
11/15/2018 6:45										42.43222;-76.49722
11/15/2018 6:50	12.2	72.9								
11/15/2018 6:50										42.43218;-76.49709
11/15/2018 6:55	12.2	74.9								42.43217;-76.49719
11/15/2018 7:00	12.2	84								42.43208;-76.49706
11/15/2018 7:05	12.2	74.9								42.43238;-76.49721
11/15/2018 7:10	12.2	73.9								
11/15/2018 7:10										42.43217;-76.49714
11/15/2018 7:15	12.2	74.9								
11/15/2018 7:15										42.43208;-76.49708
11/15/2018 7:20	12.2	72.9								
11/15/2018 7:20										42.43213;-76.49707
11/15/2018 7:25	12.2	79								42.43205;-76.49703
11/15/2018 7:30	12.2	83								42.43209;-76.49703
11/15/2018 7:35	12.2	72.9								42.43224;-76.49695
11/15/2018 7:40	12.2	81								
11/15/2018 7:40										42.43216;-76.49715
11/15/2018 7:45	12.2	73.9								
11/15/2018 7:45										42.43228;-76.49713
11/15/2018 7:50	12.2	88.1								
11/15/2018 7:50										42.43245;-76.49723
11/15/2018 7:55	12.2	79								42.43177;-76.49683
11/15/2018 8:00	12.2	83								42.43206;-76.49694
11/15/2018 8:05	12.2	85								42.43217;-76.49699
11/15/2018 8:10	12.2	74.9								
11/15/2018 8:10										42.43214;-76.49693
11/15/2018 8:15	12.2	74.9								
11/15/2018 8:15										42.43216;-76.49686
11/15/2018 8:20	12.2	75.9								
11/15/2018 8:20										42.43206;-76.49711
11/15/2018 8:25	12.2	73.9								42.43227;-76.4968
11/15/2018 8:30	12.2	74.9								42.43249;-76.49724
11/15/2018 8:35	12.2	83								42.43198;-76.49711

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/15/2018 8:40	12.2	73.9								
11/15/2018 8:40										42.43211;-76.49704
11/15/2018 8:45	12.2	79								
11/15/2018 8:45										42.43199;-76.49698
11/15/2018 8:50	12.2	88.1								
11/15/2018 8:50										42.43222;-76.49712
11/15/2018 8:55	12.2	77.9								42.43242;-76.49699
11/15/2018 9:00	12.2	84								42.43225;-76.49706
11/15/2018 9:05	12.2	83								42.4322;-76.49733
11/15/2018 9:10	12.1	72.9								
11/15/2018 9:10										42.43174;-76.49727
11/15/2018 9:15	12.2	74.9								
11/15/2018 9:15										42.4327;-76.49688
11/15/2018 9:20	12.2	73.9								
11/15/2018 9:20										42.43247;-76.49699
11/15/2018 9:25	12.1	74.9								42.43223;-76.49701
11/15/2018 9:30	12.2	69.8								42.43234;-76.49715
11/15/2018 9:35	12.2	90.1								42.43243;-76.49702
11/15/2018 9:40	12.2	86								
11/15/2018 9:40										42.43219;-76.49713
11/15/2018 9:45	12.1	79								
11/15/2018 9:45										42.43225;-76.49709
11/15/2018 9:50	12.1	77.9								
11/15/2018 9:50										42.43237;-76.49697
11/15/2018 9:55	12.2	85								42.432;-76.497
11/15/2018 10:00	12.1	73.9								42.43214;-76.49708
11/15/2018 10:05	12.2	84								42.43207;-76.49721
11/15/2018 10:10	12.1	84								
11/15/2018 10:10										42.43208;-76.49709
11/15/2018 10:15	12.2	73.9								
11/15/2018 10:15										42.43197;-76.49712
11/15/2018 10:20	12.2	73.9								
11/15/2018 10:20										42.43225;-76.49727
11/15/2018 10:25	12.2	84								42.43208;-76.49712
11/15/2018 10:30	12.2	74.9								42.43209;-76.49705
11/15/2018 10:35	12.2	79								42.43209;-76.49706
11/15/2018 10:40	12.2	73.9								
11/15/2018 10:40										42.43219;-76.49683
11/15/2018 10:45	12.2	79								
11/15/2018 10:45										42.43222;-76.49698
11/15/2018 10:50	12.2	81								
11/15/2018 10:50										42.43193;-76.49705
11/15/2018 10:55	12.2	73.9								42.43244;-76.49721
11/15/2018 11:00	12.2	75.9								42.43248;-76.49718
11/15/2018 11:05	12.2	85								42.43211;-76.49707
11/15/2018 11:10	12.2	86								
11/15/2018 11:10										42.43215;-76.49715
11/15/2018 11:15	12.1	73.9								
11/15/2018 11:15										42.43192;-76.49724
11/15/2018 11:20	12.1	73.9								
11/15/2018 11:20										42.43236;-76.49704
11/15/2018 11:25	12.1	77.9								42.43216;-76.49728
11/15/2018 11:30	12.1	74.9								42.4322;-76.49713
11/15/2018 11:35	12.1	75.9								42.43203;-76.49707
11/15/2018 11:40	12.1	75.9								
11/15/2018 11:40										42.43221;-76.49702
11/15/2018 11:45	12.1	80								
11/15/2018 11:45										42.43245;-76.49696
11/15/2018 11:50	12.1	74.9								
11/15/2018 11:50										42.43191;-76.49711
11/15/2018 11:55	12.1	73.9								42.43211;-76.49694
11/15/2018 12:00	12.1	73.9								42.4324;-76.49725
11/15/2018 12:05	12.1	83								42.4325;-76.49718
11/15/2018 12:10	12.1	88.1								
11/15/2018 12:10										42.43219;-76.49716
11/15/2018 12:15	12.1	74.9								
11/15/2018 12:15										42.43221;-76.49741
11/15/2018 12:20	12.1	73.9								
11/15/2018 12:20										42.43217;-76.49718
11/15/2018 12:25	12.1	73.9								42.43213;-76.49707
11/15/2018 12:30	12.1	79								42.43217;-76.49732
11/15/2018 12:35	12.1	76.9								42.43243;-76.49724
11/15/2018 12:40	12.1	87								
11/15/2018 12:40										42.43278;-76.49715
11/15/2018 12:45	12.1	75.9								
11/15/2018 12:45										42.43271;-76.49707
11/15/2018 12:50	12.1	76.9								
11/15/2018 12:50										42.43051;-76.49894
11/15/2018 12:55	11.9	86								42.42834;-76.50171
11/15/2018 12:57			0	0	0	0	0			
11/15/2018 12:58			0	0	0	0	0			
11/15/2018 12:59			0	0	0	0	0			
11/15/2018 13:00	11.9	75.9	0	0	0	0	0		0.009	42.42846;-76.50177
11/15/2018 13:00								0		
11/15/2018 13:01			0	0	0	0	0	0	0.011	
11/15/2018 13:02			0	0	0	0	0	0	0.017	
11/15/2018 13:03			0	0	0	0	0	0	0.016	
11/15/2018 13:04			0	0	0	0	0	0	0.015	
11/15/2018 13:05	11.9	86	0	0	0	0	0	0	0.015	42.42841;-76.50172
11/15/2018 13:06			0	0	0	0	0	0	0.015	
11/15/2018 13:07			0	0	0	0	0	0	0.015	
11/15/2018 13:08			0	0	0	0	0	0	0.015	
11/15/2018 13:09			0	0	0	0	0	0	0.015	
11/15/2018 13:10	11.9	75.9	0	0	0	0	0	0	0.015	42.4284;-76.50172
11/15/2018 13:11			0	0	0	0	0	0	0.014	
11/15/2018 13:12			0	0	0	0	0	0	0.014	
11/15/2018 13:13			0	0	0	0	0	0	0.014	
11/15/2018 13:14			0	0	0	0	0	0	0.014	
11/15/2018 13:15	11.9	75.9	0	0	0	0	0	0	0.014	42.42842;-76.50176
11/15/2018 13:16			0	0	0	0	0	0	0.014	
11/15/2018 13:17			0	0	0	0	0	0	0.014	
11/15/2018 13:18			0	0	0	0	0	0.001	0.014	
11/15/2018 13:19			0	0	0	0	0	0.001	0.014	
11/15/2018 13:20	11.9	75.9	0	0	0	0	0	0.001	0.014	
11/15/2018 13:20										42.42839;-76.50172
11/15/2018 13:21			0	0	0	0	0	0.001	0.014	
11/15/2018 13:22			0	0	0	0	0	0.001	0.014	
11/15/2018 13:23			0	0	0	0	0	0.001	0.014	
11/15/2018 13:24			0	0	0	0	0	0.001	0.015	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/15/2018 13:25	11.8	93.1	0	0	0	0	0	0.001	0.015	
11/15/2018 13:25										42.42832;-76.50166
11/15/2018 13:26			0	0	0	0	0	0.001	0.015	
11/15/2018 13:27			0	0	0	0	0	0.001	0.015	
11/15/2018 13:28			0	0	0	0	0	0.001	0.015	
11/15/2018 13:29			0	0	0	0	0	0.001	0.015	
11/15/2018 13:30	11.9	76.9	0	0	0	0	0	0.001	0.015	
11/15/2018 13:30										42.42836;-76.50162
11/15/2018 13:31			0	0	0	0	0	0.001	0.015	
11/15/2018 13:32			0	0	0	0	0	0.001	0.015	
11/15/2018 13:33			0	0	0	0	0	0.001	0.015	
11/15/2018 13:34			0	0	0	0	0	0.001	0.015	
11/15/2018 13:35	11.8	76.9	0	0	0	0	0	0.001	0.015	
11/15/2018 13:35										42.42837;-76.50163
11/15/2018 13:36			0	0	0	0	0	0.001	0.015	
11/15/2018 13:37			0	0	0	0	0	0.001	0.015	
11/15/2018 13:38			0	0	0	0	0	0.001	0.015	
11/15/2018 13:39			0	0	0	0	0	0.001	0.015	
11/15/2018 13:40	11.8	75.9	0	0	0	0	0	0.001	0.015	
11/15/2018 13:40										42.42843;-76.5017
11/15/2018 13:41			0	0	0	0	0	0.001	0.015	
11/15/2018 13:42			0	0	0	0	0	0.001	0.015	
11/15/2018 13:43			0	0	0	0	0	0.001	0.015	
11/15/2018 13:44			0	0	0	0	0	0.001	0.015	
11/15/2018 13:45	11.8	90.1	0	0	0	0	0	0.001	0.015	
11/15/2018 13:45										42.42842;-76.50174
11/15/2018 13:46			0	0	0	0	0	0.001	0.036	
11/15/2018 13:47			0	0	0	0	0	0.002	0.04	
11/15/2018 13:48			0	0	0	0	0	0.002	0.033	
11/15/2018 13:49			0	0	0	0	0	0.002	0.019	
11/15/2018 13:50	11.8	77.9	0	0	0	0	0	0.002	0.039	
11/15/2018 13:50										42.42841;-76.50171
11/15/2018 13:51			0	0	0	0	0	0.002	0.124	
11/15/2018 13:52			0	0	0	0	0	0.002	0.019	
11/15/2018 13:53			0	0	0	0	0	0.002	0.016	
11/15/2018 13:54			0	0	0	0	0	0.002	0.016	
11/15/2018 13:55	11.8	76.9	0	0	0	0	0	0.002	0.016	
11/15/2018 13:55										42.42839;-76.50163
11/15/2018 13:56			0	0	0	0	0	0.002	0.016	
11/15/2018 13:57			0	0	0	0	0	0.002	0.016	
11/15/2018 13:58			0	0	0	0	0	0.002	0.016	
11/15/2018 13:59			0	0	0	0	0	0.002	0.016	
11/15/2018 14:00	11.8	75.9	0	0	0	0	0	0.002	0.015	
11/15/2018 14:00										42.4284;-76.50172
11/15/2018 14:01			0	0	0	0	0	0.002	0.015	
11/15/2018 14:02			0	0	0	0	0	0.002	0.036	
11/15/2018 14:03			0	0	0	0	0	0.002	0.014	
11/15/2018 14:04			0	0	0	0	0	0.002	0.015	
11/15/2018 14:05	11.8	75.9	0	0	0	0	0	0.002	0.016	
11/15/2018 14:05										42.42825;-76.50175
11/15/2018 14:06			0	0	0	0	0	0.003	0.015	
11/15/2018 14:07			0	0	0	0	0	0.003	0.017	
11/15/2018 14:08			0	0	0	0	0	0.003	0.019	
11/15/2018 14:09			0	0	0	0	0	0.003	0.019	
11/15/2018 14:10	11.8	76.9	0	0	0	0	0	0.003	0.017	
11/15/2018 14:10										42.42826;-76.50175
11/15/2018 14:11			0	0	0	0	0	0.003	0.015	
11/15/2018 14:12			0	0	0	0	0	0.003	0.016	
11/15/2018 14:13			0	0	0	0	0	0.003	0.017	
11/15/2018 14:14			0	0	0	0	0	0.003	0.014	
11/15/2018 14:15	11.8	76.9	0	0	0	0	0	0.003	0.015	
11/15/2018 14:15										42.42816;-76.50179
11/15/2018 14:16			0	0	0	0	0	0.003	0.014	
11/15/2018 14:17			0	0	0	0	0	0.003	0.013	
11/15/2018 14:18			0	0	0	0	0	0.003	0.013	
11/15/2018 14:19			0	0	0	0	0	0.003	0.012	
11/15/2018 14:20	11.8	87	0	0	0	0	0	0.003	0.012	
11/15/2018 14:20										42.42827;-76.50177
11/15/2018 14:21			0	0	0	0	0	0.003	0.013	
11/15/2018 14:22			0	0	0	0	0	0.003	0.012	
11/15/2018 14:23			0	0	0	0	0	0.003	0.012	
11/15/2018 14:24			0	0	0	0	0	0.003	0.012	
11/15/2018 14:25	11.8	75.9	0	0	0	0	0	0.003	0.012	
11/15/2018 14:25										42.42836;-76.50166
11/15/2018 14:26			0	0	0	0	0	0.003	0.012	
11/15/2018 14:27			0	0	0	0	0	0.003	0.012	
11/15/2018 14:28			0	0	0	0	0	0.003	0.012	
11/15/2018 14:29			0	0	0	0	0	0.003	0.012	
11/15/2018 14:30	11.8	77.9	0	0	0	0	0	0.003	0.014	
11/15/2018 14:30										42.42822;-76.50173
11/15/2018 14:31			0	0	0	0	0	0.004	0.155	
11/15/2018 14:32			0	0	0	0	0	0.004	0.045	
11/15/2018 14:33			0	0	0	0	0	0.004	0.015	
11/15/2018 14:34			0	0	0	0	0	0.004	0.014	
11/15/2018 14:35	11.8	76.9	0	0	0	0	0	0.004	0.013	
11/15/2018 14:35										42.42826;-76.50182
11/15/2018 14:36			0	0	0	0	0	0.004	0.014	
11/15/2018 14:37			0	0	0	0	0	0.004	0.016	
11/15/2018 14:38			0	0	0	0	0	0.004	0.016	
11/15/2018 14:39			0	0	0	0	0	0.004	0.017	
11/15/2018 14:40	11.7	93.1	0	0	0	0	0	0.004	0.018	
11/15/2018 14:40										42.4283;-76.50172
11/15/2018 14:41			0	0	0	0	0	0.004	0.018	
11/15/2018 14:42			0	0	0	0	0	0.004	0.018	
11/15/2018 14:43			0	0	0	0	0	0.004	0.017	
11/15/2018 14:44			0	0	0	0	0	0.004	0.017	
11/15/2018 14:45	11.7	79	0	0	0	0	0	0.004	0.015	
11/15/2018 14:45										42.42837;-76.50164
11/15/2018 14:46			0	0	0	0	0	0.005	0.285	
11/15/2018 14:47			0	0	0	0	0	0.005	0.087	
11/15/2018 14:48			0	0	0	0	0	0.005	0.031	
11/15/2018 14:49			0	0	0	0	0	0.005	0.025	
11/15/2018 14:50	11.7	77.9	0	0	0	0	0	0.005	0.014	
11/15/2018 14:50										42.42839;-76.50172
11/15/2018 14:51			0	0	0	0	0	0.005	0.014	
11/15/2018 14:52			0	0	0	0	0	0.005	0.013	
11/15/2018 14:53			0	0	0	0	0	0.005	0.141	
11/15/2018 14:54			0	0	0	0	0	0.005	0.014	
11/15/2018 14:55	11.7	79	0	0	0	0	0	0.005	0.013	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/15/2018 14:55										42.42835;-76.50171
11/15/2018 14:56			0	0	0	0	0	0.005	0.014	
11/15/2018 14:57			0	0	0	0	0	0.005	0.015	
11/15/2018 14:58			0	0	0	0	0	0.005	0.014	
11/15/2018 14:59			0	0	0	0	0	0.005	0.015	
11/15/2018 15:00	11.7	87	0	0	0	0	0	0.006	0.014	
11/15/2018 15:00										42.42838;-76.50172
11/15/2018 15:01			0	0	0	0	0	0.006	0.014	
11/15/2018 15:02			0	0	0	0	0	0.006	0.012	
11/15/2018 15:03			0	0	0	0	0	0.006	0.012	
11/15/2018 15:04			0	0	0	0	0	0.006	0.014	
11/15/2018 15:05	11.7	79	0	0	0	0	0	0.006	0.012	
11/15/2018 15:05										42.42834;-76.50172
11/15/2018 15:06			0	0	0	0	0	0.006	0.012	
11/15/2018 15:07			0	0	0	0	0	0.006	0.012	
11/15/2018 15:08			0	0	0	0	0	0.006	0.013	
11/15/2018 15:09			0	0	0	0	0	0.006	0.348	
11/15/2018 15:10	11.7	81	0	0	0	0	0	0.007	0.029	
11/15/2018 15:10										42.42835;-76.50173
11/15/2018 15:11			0	0	0	0	0	0.007	0.028	
11/15/2018 15:12			0	0	0	0	0	0.007	0.013	
11/15/2018 15:13			0	0	0	0	0	0.007	0.013	
11/15/2018 15:14			0	0	0	0	0	0.007	0.012	
11/15/2018 15:15	11.7	81	0	0	0	0	0	0.007	0.013	
11/15/2018 15:15										42.42833;-76.50169
11/15/2018 15:16			0	0	0	0	0	0.007	0.012	
11/15/2018 15:17			0	0	0	0	0	0.007	0.012	
11/15/2018 15:18			0	0	0	0	0	0.007	0.012	
11/15/2018 15:19			0	0	0	0	0	0.007	0.012	
11/15/2018 15:20	11.7	87	0	0	0	0	0	0.007	0.012	
11/15/2018 15:20										42.42832;-76.50171
11/15/2018 15:21			0	0	0	0	0	0.007	0.012	
11/15/2018 15:22			0	0	0	0	0	0.007	0.012	
11/15/2018 15:23			0	0	0	0	0	0.007	0.012	
11/15/2018 15:24			0	0	0	0	0	0.007	0.012	
11/15/2018 15:25	11.7	77.9	0	0	0	0	0	0.007	0.011	
11/15/2018 15:25										42.42833;-76.50166
11/15/2018 15:26			0	0	0	0	0	0.007	0.011	
11/15/2018 15:27			0	0	0	0	0	0.007	0.012	
11/15/2018 15:28			0	0	0	0	0	0.007	0.014	
11/15/2018 15:29			0	0	0	0	0	0.007	0.012	
11/15/2018 15:30	11.7	79	0	0	0	0	0	0.007	0.012	
11/15/2018 15:30										42.42833;-76.50172
11/15/2018 15:31			0	0	0	0	0	0.007	0.012	
11/15/2018 15:32			0	0	0	0	0	0.007	0.012	
11/15/2018 15:33			0	0	0	0	0	0.007	0.013	
11/15/2018 15:34			0	0	0	0	0	0.007	0.014	
11/15/2018 15:35	11.7	77.9	0	0	0	0	0	0.007	0.013	
11/15/2018 15:35										42.42828;-76.50172
11/15/2018 15:36			0	0	0	0	0	0.007	0.013	
11/15/2018 15:37			0	0	0	0	0	0.007	0.012	
11/15/2018 15:38			0	0	0	0	0	0.007	0.013	
11/15/2018 15:39			0	0	0	0	0	0.007	0.012	
11/15/2018 15:40	11.7	88.1	0	0	0	0	0	0.007	0.011	
11/15/2018 15:40										42.42831;-76.50172
11/15/2018 15:41			0	0	0	0	0	0.007	0.011	
11/15/2018 15:42			0	0	0	0	0	0.007	0.011	
11/15/2018 15:43			0	0	0	0	0	0.007	0.011	
11/15/2018 15:44			0	0	0	0	0	0.007	0.011	
11/15/2018 15:45	11.7	76.9	0	0	0	0	0	0.007	0.012	
11/15/2018 15:45										42.42835;-76.50169
11/15/2018 15:46			0	0	0	0	0	0.007	0.013	
11/15/2018 15:47			0	0	0	0	0	0.008	0.036	
11/15/2018 15:48			0	0	0	0	0	0.008	0.025	
11/15/2018 15:49			0	0	0	0	0	0.008	0.012	
11/15/2018 15:50	11.7	79	0	0	0	0	0	0.008	0.012	
11/15/2018 15:50										42.4284;-76.50173
11/15/2018 15:51			0	0	0	0	0	0.008	0.011	
11/15/2018 15:52			0	0	0	0	0	0.008	0.011	
11/15/2018 15:53			0	0	0	0	0	0.008	0.011	
11/15/2018 15:54			0	0	0	0	0	0.008	0.011	
11/15/2018 15:55	11.7	90.1	0	0	0	0	0	0.008	0.012	
11/15/2018 15:55										42.42836;-76.50173
11/15/2018 15:56			0	0	0	0	0	0.008	0.011	
11/15/2018 15:57			0	0	0	0	0	0.008	0.011	
11/15/2018 15:58			0	0	0	0	0	0.008	0.011	
11/15/2018 15:59			0	0	0	0	0	0.008	0.011	
11/15/2018 16:00	11.7	76.9	0	0	0	0	0	0.008	0.012	
11/15/2018 16:00										42.4284;-76.50172
11/15/2018 16:01			0	0	0	0	0	0.008	0.012	
11/15/2018 16:02			0	0	0	0	0	0.008	0.011	
11/15/2018 16:03			0	0	0	0	0	0.008	0.011	
11/15/2018 16:04			0	0	0	0	0	0.008	0.011	
11/15/2018 16:05	11.6	87	0	0	0	0	0	0.008	0.011	
11/15/2018 16:05										42.4284;-76.50172
11/15/2018 16:06			0	0	0	0	0	0.008	0.011	
11/15/2018 16:07			0	0	0	0	0	0.008	0.011	
11/15/2018 16:08			0	0	0	0	0	0.008	0.011	
11/15/2018 16:09			0	0	0	0	0	0.008	0.011	
11/15/2018 16:10	11.6	76.9	0	0	0	0	0	0.008	0.011	
11/15/2018 16:10										42.4284;-76.50168
11/15/2018 16:11			0	0	0	0	0	0.008	0.011	
11/15/2018 16:12			0	0	0	0	0	0.008	0.011	
11/15/2018 16:13			0	0	0	0	0	0.008	0.011	
11/15/2018 16:14			0	0	0	0	0	0.008	0.012	
11/15/2018 16:15	11.6	82	0	0	0	0	0	0.008	0.03	
11/15/2018 16:15										42.42836;-76.5016
11/15/2018 16:16			0	0	0	0	0	0.008	0.011	
11/15/2018 16:17			0	0	0	0	0	0.008	0.011	
11/15/2018 16:18			0	0	0	0	0	0.008	0.013	
11/15/2018 16:19			0	0	0	0	0	0.008	0.011	
11/15/2018 16:20	11.6	82	0	0	0	0	0	0.008	0.011	
11/15/2018 16:20										42.42838;-76.5014
11/15/2018 16:21			0	0	0	0	0	0.008	0.011	
11/15/2018 16:22			0	0	0	0	0	0.008	0.011	
11/15/2018 16:23			0	0	0	0	0	0.008	0.011	
11/15/2018 16:24			0	0	0	0	0	0.008	0.011	
11/15/2018 16:25	11.6	93.1	0	0	0	0	0	0.008	0.011	
11/15/2018 16:25										42.42834;-76.50162

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/15/2018 16:26			0	0	0	0	0	0.009	0.011	
11/15/2018 16:27			0	0	0	0	0	0.009	0.011	
11/15/2018 16:28			0	0	0	0	0	0.009	0.049	
11/15/2018 16:29			0	0	0	0	0	0.009	0.063	
11/15/2018 16:30	11.6	77.9	0	0	0	0	0	0.009	0.017	
11/15/2018 16:30										42.42839;-76.50167
11/15/2018 16:31			0	0	0	0	0	0.009	0.013	
11/15/2018 16:32			0	0	0	0	0	0.009	0.012	
11/15/2018 16:33			0	0	0	0	0	0.009	0.012	
11/15/2018 16:34			0	0	0	0	0	0.009	0.011	
11/15/2018 16:35	11.6	84	0	0	0	0	0	0.009	0.011	
11/15/2018 16:35										42.42839;-76.5017
11/15/2018 16:36			0	0	0	0	0	0.009	0.011	
11/15/2018 16:37			0	0	0	0	0	0.009	0.011	
11/15/2018 16:38			0	0	0	0	0	0.009	0.011	
11/15/2018 16:39			0	0	0	0	0	0.009	0.011	
11/15/2018 16:40	11.6	77.9	0	0	0	0	0	0.009	0.011	
11/15/2018 16:40										42.42837;-76.50173
11/15/2018 16:41			0	0	0	0	0	0.009	0.01	
11/15/2018 16:42			0	0	0	0	0	0.009	0.011	
11/15/2018 16:43			0	0	0	0	0	0.009	0.011	
11/15/2018 16:44			0	0	0	0	0	0.009	0.011	
11/15/2018 16:45	11.6	80	0	0	0	0	0	0.009	0.01	
11/15/2018 16:45										42.42832;-76.50177
11/15/2018 16:46			0	0	0	0	0	0.009	0.01	
11/15/2018 16:47			0	0	0	0	0	0.009	0.01	
11/15/2018 16:48			0	0	0	0	0	0.009	0.01	
11/15/2018 16:49			0	0	0	0	0	0.009	0.011	
11/15/2018 16:50	11.6	81	0	0	0	0	0	0.009	0.011	
11/15/2018 16:50										42.42837;-76.50167
11/15/2018 16:51			0	0	0	0	0	0.009	0.011	
11/15/2018 16:52			0	0	0	0	0	0.009	0.01	
11/15/2018 16:53			0	0	0	0	0	0.009	0.01	
11/15/2018 16:54			0	0	0	0	0	0.009	0.01	
11/15/2018 16:55	11.6	80	0	0	0	0	0	0.009	0.01	
11/15/2018 16:55										42.42835;-76.50175
11/15/2018 16:56			0	0	0	0	0	0.009	0.01	
11/15/2018 16:57			0	0	0	0	0	0.009	0.011	
11/15/2018 16:58			0	0	0	0	0	0.009	0.01	
11/15/2018 16:59			0	0	0	0	0	0.009	0.011	
11/15/2018 17:00	11.6	88.1	0	0	0	0	0	0.009	0.011	
11/15/2018 17:00										42.42839;-76.50175
11/15/2018 17:01			0	0	0	0	0	0.009	0.01	
11/15/2018 17:02			0	0	0	0	0	0.01	0.011	
11/15/2018 17:03			0	0	0	0	0	0.01	0.01	
11/15/2018 17:04			0	0	0	0	0	0.01	0.01	
11/15/2018 17:05	11.6	79	0	0	0	0	0	0.01	0.01	
11/15/2018 17:05										42.42838;-76.50173
11/15/2018 17:06			0	0	0	0	0	0.01	0.01	
11/15/2018 17:07			0	0	0	0	0	0.01	0.01	
11/15/2018 17:08			0	0	0	0	0	0.01	0.01	
11/15/2018 17:09			0	0	0	0	0	0.01	0.01	
11/15/2018 17:10	11.6	91.1	0	0	0	0	0	0.01	0.01	
11/15/2018 17:10										42.42834;-76.50173
11/15/2018 17:11			0	0	0	0	0	0.01	0.01	
11/15/2018 17:12			0	0	0	0	0	0.01	0.01	
11/15/2018 17:13			0	0	0	0	0	0.01	0.011	
11/15/2018 17:14			0	0	0	0	0	0.01	0.011	
11/15/2018 17:15	11.6	83	0	0	0	0	0	0.01	0.01	
11/15/2018 17:15										42.42836;-76.50172
11/15/2018 17:16			0	0	0	0	0	0.01	0.01	
11/15/2018 17:17			0	0	0	0	0	0.01	0.034	
11/15/2018 17:18			0	0	0	0	0	0.01	0.035	
11/15/2018 17:19			0	0	0	0	0	0.01	0.021	
11/15/2018 17:20	11.6	82	0	0	0	0	0	0.01	0.02	
11/15/2018 17:20										42.42839;-76.50165
11/15/2018 17:21			0	0	0	0	0	0.01	0.021	
11/15/2018 17:22			0	0	0	0	0	0.01	0.015	
11/15/2018 17:23			0	0	0	0	0	0.01	0.012	
11/15/2018 17:24			0	0	0	0	0	0.01	0.011	
11/15/2018 17:25	11.6	77.9	0	0	0	0	0	0.01	0.01	
11/15/2018 17:25										42.42842;-76.50169
11/15/2018 17:26			0	0	0	0	0	0.01	0.01	
11/15/2018 17:27			0	0	0	0	0	0.01	0.01	
11/15/2018 17:28			0	0	0	0	0	0.01	0.01	
11/15/2018 17:29			0	0	0	0	0	0.01	0.01	
11/15/2018 17:30	11.6	86	0	0	0	0	0	0.01	0.01	
11/15/2018 17:30										42.42841;-76.50175
11/15/2018 17:31			0	0	0	0	0	0.01	0.01	
11/15/2018 17:32			0	0	0	0	0	0.01	0.01	
11/15/2018 17:33			0	0	0	0	0	0.01	0.01	
11/15/2018 17:34			0	0	0	0	0	0.01	0.01	
11/15/2018 17:35	11.6	85	0	0	0	0	0	0.01	0.01	
11/15/2018 17:35										42.4283;-76.50172
11/15/2018 17:36			0	0	0	0	0	0.01	0.011	
11/15/2018 17:37			0	0	0	0	0	0.01	0.01	
11/15/2018 17:38			0	0	0	0	0	0.01	0.01	
11/15/2018 17:39			0	0	0	0	0	0.01	0.01	
11/15/2018 17:40	11.5	77.9	0	0	0	0	0	0.011	0.011	
11/15/2018 17:40										42.42842;-76.50163
11/15/2018 17:41			0	0	0	0	0	0.011	0.01	
11/15/2018 17:42			0	0	0	0	0	0.011	0.009	
11/15/2018 17:43			0	0	0	0	0	0.011	0.009	
11/15/2018 17:44			0	0	0	0	0	0.011	0.009	
11/15/2018 17:45	11.5	85	0	0	0	0	0	0.011	0.009	
11/15/2018 17:45										42.42843;-76.50162
11/15/2018 17:46			0	0	0	0	0	0.011	0.011	
11/15/2018 17:47			0	0	0	0	0	0.011	0.01	
11/15/2018 17:48			0	0	0	0	0	0.011	0.009	
11/15/2018 17:49			0	0	0	0	0	0.011	0.009	
11/15/2018 17:50	11.5	79	0	0	0	0	0	0.011	0.009	
11/15/2018 17:50										42.4284;-76.50171
11/15/2018 17:51			0	0	0	0	0	0.011	0.009	
11/15/2018 17:52			0	0	0	0	0	0.011	0.009	
11/15/2018 17:53			0	0	0	0	0	0.011	0.009	
11/15/2018 17:54			0	0	0	0	0	0.011	0.009	
11/15/2018 17:55	11.5	90.1	0	0	0	0	0	0.011	0.009	
11/15/2018 17:55										42.42833;-76.50168
11/15/2018 17:56			0	0	0	0	0	0.011	0.009	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/15/2018 17:57			0	0	0	0	0	0.011	0.009	
11/15/2018 17:58			0	0	0	0	0	0.011	0.009	
11/15/2018 17:59			0	0	0	0	0	0.011	0.009	
11/15/2018 18:00	11.5	77.9	0	0	0	0	0	0.011	0.009	
11/15/2018 18:00										42.42832;-76.5017
11/15/2018 18:01			0	0	0	0	0	0.011	0.009	
11/15/2018 18:02			0	0	0	0	0	0.011	0.009	
11/15/2018 18:03			0	0	0	0	0	0.011	0.009	
11/15/2018 18:04			0	0	0	0	0	0.011	0.009	
11/15/2018 18:05	11.5	79	0	0	0	0	0	0.011	0.009	
11/15/2018 18:05										42.42834;-76.50167
11/15/2018 18:06			0	0	0	0	0	0.011	0.009	
11/15/2018 18:07			0	0	0	0	0	0.011	0.009	
11/15/2018 18:08			0	0	0	0	0	0.011	0.134	
11/15/2018 18:09			0	0	0	0	0	0.011	0.015	
11/15/2018 18:10	11.5	79	0	0	0	0	0	0.012	0.203	
11/15/2018 18:10										42.42837;-76.50168
11/15/2018 18:11			0	0	0	0	0	0.012	0.027	
11/15/2018 18:12			0	0	0	0	0	0.012	0.019	
11/15/2018 18:13			0	0	0	0	0	0.012	0.013	
11/15/2018 18:14			0	0	0	0	0	0.012	0.009	
11/15/2018 18:15	11.5	77.9	0	0	0	0	0	0.012	0.03	
11/15/2018 18:15										42.42836;-76.50172
11/15/2018 18:16			0	0	0	0	0	0.012	0.035	
11/15/2018 18:17			0	0	0	0	0	0.012	0.024	
11/15/2018 18:18			0	0	0	0	0	0.012	0.014	
11/15/2018 18:19			0	0	0	0	0	0.012	0.013	
11/15/2018 18:20	11.5	81	0	0	0	0	0	0.012	0.027	
11/15/2018 18:20										42.42837;-76.50165
11/15/2018 18:21			0	0	0	0	0	0.012	0.098	
11/15/2018 18:22			0	0	0	0	0	0.012	0.035	
11/15/2018 18:23			0	0	0	0	0	0.013	0.015	
11/15/2018 18:24			0	0	0	0	0	0.013	0.01	
11/15/2018 18:25	11.5	79	0	0	0	0	0	0.013	0.01	
11/15/2018 18:25										42.42835;-76.50169
11/15/2018 18:26			0	0	0	0	0	0.013	0.01	
11/15/2018 18:27			0	0	0	0	0	0.013	0.01	
11/15/2018 18:28			0	0	0	0	0	0.013	0.01	
11/15/2018 18:29			0	0	0	0	0	0.013	0.01	
11/15/2018 18:30	11.5	92.1	0	0	0	0	0	0.013	0.01	
11/15/2018 18:30										42.42836;-76.50171
11/15/2018 18:31			0	0	0	0	0	0.013	0.009	
11/15/2018 18:32			0	0	0	0	0	0.013	0.009	
11/15/2018 18:33			0	0	0	0	0	0.013	0.009	
11/15/2018 18:34			0	0	0	0	0	0.013	0.009	
11/15/2018 18:35	11.5	84	0	0	0	0	0	0.013	0.009	
11/15/2018 18:35										42.42833;-76.50168
11/15/2018 18:36			0	0	0	0	0	0.013	0.01	
11/15/2018 18:37			0	0	0	0	0	0.013	0.01	
11/15/2018 18:38			0	0	0	0	0	0.013	0.047	
11/15/2018 18:39			0	0	0	0	0	0.013	0.025	
11/15/2018 18:40	11.5	85	0	0	0	0	0	0.013	0.01	42.42832;-76.50165
11/15/2018 18:41			0	0	0	0	0	0.013	0.01	
11/15/2018 18:42			0	0	0	0	0	0.013	0.011	
11/15/2018 18:43			0	0	0	0	0	0.013	0.01	
11/15/2018 18:44			0	0	0	0	0	0.013	0.01	
11/15/2018 18:45	11.5	79	0	0	0	0	0	0.013	0.01	42.42832;-76.50157
11/15/2018 18:46			0	0	0	0	0	0.013	0.01	
11/15/2018 18:47			0	0	0	0	0	0.013	0.01	
11/15/2018 18:48			0	0	0	0	0	0.013	0.01	
11/15/2018 18:49			0	0	0	0	0	0.013	0.01	
11/15/2018 18:50	11.5	86	0	0	0	0	0	0.013	0.009	42.4283;-76.50167
11/15/2018 18:51			0	0	0	0	0	0.013	0.009	
11/15/2018 18:52			0	0	0	0	0	0.013	0.009	
11/15/2018 18:53			0	0	0	0	0	0.013	0.009	
11/15/2018 18:54			0	0	0	0	0	0.013	0.009	
11/15/2018 18:55	11.5	82	0	0	0	0	0	0.013	0.009	42.42833;-76.50165
11/15/2018 18:56			0	0	0	0	0	0.013	0.012	
11/15/2018 18:57			0	0	0	0	0	0.013	0.022	
11/15/2018 18:58			0	0	0	0	0	0.013	0.012	
11/15/2018 18:59			0	0	0	0	0	0.013	0.012	
11/15/2018 19:00	11.5	80	0	0	0	0	0	0.013	0.011	42.42834;-76.50177
11/15/2018 19:01			0	0	0	0	0	0.013	0.01	
11/15/2018 19:02			0	0	0	0	0	0.013	0.01	
11/15/2018 19:03			0	0	0	0	0	0.013	0.009	
11/15/2018 19:04			0	0	0	0	0	0.013	0.01	
11/15/2018 19:05	11.4	87	0	0	0	0	0	0.014	0.01	42.42831;-76.50166
11/15/2018 19:06			0	0	0	0	0	0.014	0.009	
11/15/2018 19:07			0	0	0	0	0	0.014	0.01	
11/15/2018 19:08			0	0	0	0	0	0.014	0.01	
11/15/2018 19:09			0	0	0	0	0	0.014	0.01	
11/15/2018 19:10	11.4	80	0	0	0	0	0	0.014	0.01	42.42831;-76.50175
11/15/2018 19:11			0	0	0	0	0	0.014	0.01	
11/15/2018 19:12			0	0	0	0	0	0.014	0.013	
11/15/2018 19:13			0	0	0	0	0	0.014	0.031	
11/15/2018 19:14			0	0	0	0	0	0.014	0.01	
11/15/2018 19:15	11.4	80	0	0	0	0	0	0.014	0.01	42.42833;-76.50172
11/15/2018 19:16			0	0	0	0	0	0.014	0.01	
11/15/2018 19:17			0	0	0	0	0	0.014	0.012	
11/15/2018 19:18			0	0	0	0	0	0.014	0.011	
11/15/2018 19:19			0	0	0	0	0	0.014	0.011	
11/15/2018 19:20	11.4	80	0	0	0	0	0	0.014	0.011	42.4283;-76.50168
11/15/2018 19:21			0	0	0	0	0	0.014	0.01	
11/15/2018 19:22			0	0	0	0	0	0.014	0.018	
11/15/2018 19:23			0	0	0	0	0	0.014	0.019	
11/15/2018 19:24			0	0	0	0	0	0.014	0.013	
11/15/2018 19:25	11.4	90.1	0	0	0	0	0	0.014	0.01	42.42832;-76.50168
11/15/2018 19:26			0	0	0	0	0	0.014	0.011	
11/15/2018 19:27			0	0	0	0	0	0.014	0.011	
11/15/2018 19:28			0	0	0	0	0	0.014	0.081	
11/15/2018 19:29			0	0	0	0	0	0.014	0.013	
11/15/2018 19:30	11.4	81	0	0	0	0	0	0.014	0.012	42.42836;-76.50166
11/15/2018 19:31			0	0	0	0	0	0.014	0.012	
11/15/2018 19:32			0	0	0	0	0	0.014	0.011	
11/15/2018 19:33			0	0	0	0	0	0.014	0.011	
11/15/2018 19:34			0	0	0	0	0	0.014	0.011	
11/15/2018 19:35	11.4	81	0	0	0	0	0	0.014	0.01	42.42837;-76.50172
11/15/2018 19:36			0	0	0	0	0	0.014	0.011	
11/15/2018 19:37			0	0	0	0	0	0.014	0.01	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/15/2018 19:38			0	0	0	0	0	0.014	0.01	
11/15/2018 19:39			0	0	0	0	0	0.015	0.01	
11/15/2018 19:40	11.4	87	0	0	0	0	0	0.015	0.01	42.42832;-76.50173
11/15/2018 19:41			0	0	0	0	0	0.015	0.01	
11/15/2018 19:42			0	0	0	0	0	0.015	0.01	
11/15/2018 19:43			0	0	0	0	0	0.015	0.01	
11/15/2018 19:44			0	0	0	0	0	0.015	0.01	
11/15/2018 19:45	11.4	86	0	0	0	0	0	0.015	0.01	42.42834;-76.50172
11/15/2018 19:46			0	0	0	0	0	0.015	0.01	
11/15/2018 19:47			0	0	0	0	0	0.015	0.01	
11/15/2018 19:48			0	0	0	0	0	0.015	0.01	
11/15/2018 19:49			0	0	0	0	0	0.015	0.01	
11/15/2018 19:50	11.4	82	0	0	0	0	0	0.015	0.01	42.42833;-76.50172
11/15/2018 19:51			0	0	0	0	0	0.015	0.01	
11/15/2018 19:52			0	0	0	0	0	0.015	0.01	
11/15/2018 19:53			0	0	0	0	0	0.015	0.01	
11/15/2018 19:54			0	0	0	0	0	0.015	0.011	
11/15/2018 19:55	11.4	84	0	0	0	0	0	0.015	0.011	42.42833;-76.50172
11/15/2018 19:56			0	0	0	0	0	0.015	0.012	
11/15/2018 19:57			0	0	0	0	0	0.015	0.012	
11/15/2018 19:58			0	0	0	0	0	0.015	0.01	
11/15/2018 19:59			0	0	0	0	0	0.015	0.01	
11/15/2018 20:00	11.4	91.1	0	0	0	0	0	0.015	0.011	42.42835;-76.50172
11/15/2018 20:01			0	0	0	0	0	0.015	0.01	
11/15/2018 20:02			0	0	0	0	0	0.015	0.01	
11/15/2018 20:03			0	0	0	0	0	0.015	0.011	
11/15/2018 20:04			0	0	0	0	0	0.015	0.01	
11/15/2018 20:05	11.4	79	0	0	0	0	0	0.015	0.01	42.42834;-76.50163
11/15/2018 20:06			0	0	0	0	0	0.015	0.01	
11/15/2018 20:07			0	0	0	0	0	0.015	0.01	
11/15/2018 20:08			0	0	0	0	0	0.015	0.01	
11/15/2018 20:09			0	0	0	0	0	0.015	0.01	
11/15/2018 20:10	11.4	90.1	0	0	0	0	0	0.015	0.045	42.42835;-76.50174
11/15/2018 20:11									0.095	
11/15/2018 20:15	11.6	93.1								42.42938;-76.49902
11/15/2018 20:20	11.6	76.9								42.43311;-76.49557
11/15/2018 20:25	11.6	76.9								
11/15/2018 20:25										42.43318;-76.49551
11/15/2018 20:30	11.6	77.9								
11/15/2018 20:30										42.43316;-76.49559
11/15/2018 20:35	11.6	84								
11/15/2018 20:35										42.43318;-76.49555
11/15/2018 20:40	11.6	85								42.43315;-76.49556
11/15/2018 20:45	11.5	81								42.43316;-76.49535
11/15/2018 20:50	11.5	79								42.43261;-76.49712
11/15/2018 20:55	12.9	89.1								
11/15/2018 20:55										42.43214;-76.49724
11/15/2018 21:00	12.8	71.9								
11/15/2018 21:00										42.43237;-76.49713
11/15/2018 21:05	12.7	83								
11/15/2018 21:05										42.43218;-76.49722
11/15/2018 21:10	12.7	87								42.43211;-76.49702
11/15/2018 21:15	12.7	75.9								42.43238;-76.49706
11/15/2018 21:20	12.7	77.9								42.43214;-76.49707
11/15/2018 21:25	12.7	85								
11/15/2018 21:25										42.43221;-76.49709
11/15/2018 21:30	12.7	75.9								
11/15/2018 21:30										42.4322;-76.49714
11/15/2018 21:35	12.8	70.9								
11/15/2018 21:35										42.43224;-76.49702
11/15/2018 21:40	12.8	76.9								42.43218;-76.49687
11/15/2018 21:45	12.8	71.9								42.43199;-76.49722
11/15/2018 21:50	12.9	70.9								42.43255;-76.49745
11/15/2018 21:55	12.9	77.9								
11/15/2018 21:55										42.43234;-76.49731
11/15/2018 22:00	12.9	71.9								
11/15/2018 22:00										42.43232;-76.49708
11/15/2018 22:05	12.9	75.9								
11/15/2018 22:05										42.43222;-76.49739
11/15/2018 22:10	12.9	80								42.43251;-76.49709
11/15/2018 22:15	13	69.8								42.43257;-76.49727
11/15/2018 22:20	13	68.8								42.43201;-76.497
11/15/2018 22:25	13	70.9								
11/15/2018 22:25										42.43227;-76.49702
11/15/2018 22:30	13	68.8								
11/15/2018 22:30										42.43251;-76.49689
11/15/2018 22:35	13	76.9								
11/15/2018 22:35										42.43234;-76.49697
11/15/2018 22:40	13	77.9								42.43224;-76.49691
11/15/2018 22:45	13.1	75.9								42.43242;-76.49732
11/15/2018 22:50	13.1	84								42.43232;-76.49754
11/15/2018 22:55	13.1	68.8								
11/15/2018 22:55										42.43218;-76.49696
11/15/2018 23:00	13.1	82								
11/15/2018 23:00										42.43258;-76.49776
11/15/2018 23:05	13.2	68.8								
11/15/2018 23:05										42.43226;-76.49678
11/15/2018 23:10	13.2	71.9								
11/15/2018 23:15	13.2	68.8								
11/15/2018 23:20	13.2	70.9								
11/15/2018 23:25	13.3	68.8								
11/15/2018 23:25										42.43262;-76.49592
11/15/2018 23:30	13.3	67.8								
11/15/2018 23:30										42.43254;-76.49625
11/15/2018 23:35	13.3	71.9								
11/15/2018 23:35										42.43258;-76.49541
11/15/2018 23:40	13.3	68.8								42.43198;-76.49693
11/15/2018 23:45	13.1	77.9								42.43237;-76.49648
11/15/2018 23:50	12.9	74.9								42.43225;-76.49736
11/15/2018 23:55	12.9	73.9								
11/15/2018 23:55										42.43239;-76.49665
11/16/2018 0:00	12.9	69.8								
11/16/2018 0:00										42.4321;-76.49699
11/16/2018 0:05	12.9	71.9								
11/16/2018 0:05										42.43275;-76.49722
11/16/2018 0:10	13	68.8								42.43234;-76.49706
11/16/2018 0:15	13	79								42.43201;-76.49715
11/16/2018 0:20	13	70.9								42.43221;-76.49715
11/16/2018 0:25	13	70.9								

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/16/2018 0:25										42.43167;-76.49769
11/16/2018 0:30	13	74.9								
11/16/2018 0:30										42.43222;-76.49705
11/16/2018 0:35	13.1	68.8								
11/16/2018 0:35										42.43232;-76.49725
11/16/2018 0:40	13.1	69.8								42.43243;-76.49726
11/16/2018 0:45	13	79								42.43229;-76.49709
11/16/2018 0:50	13.1	69.8								42.43255;-76.49712
11/16/2018 0:55	13.1	74.9								
11/16/2018 0:55										42.43231;-76.49706
11/16/2018 1:00	13.1	72.9								
11/16/2018 1:00										42.43215;-76.49732
11/16/2018 1:05	13.1	68.8								
11/16/2018 1:05										42.43233;-76.49706
11/16/2018 1:10	13.1	74.9								42.43215;-76.49706
11/16/2018 1:15	13.1	68.8								42.4323;-76.49699
11/16/2018 1:20	13.1	70.9								42.43263;-76.49694
11/16/2018 1:25	13.1	73.9								
11/16/2018 1:25										42.43252;-76.49699
11/16/2018 1:30	13.1	79								
11/16/2018 1:30										42.43258;-76.49708
11/16/2018 1:35	13.1	68.8								
11/16/2018 1:35										42.43232;-76.49688
11/16/2018 1:40	13.1	82								42.43243;-76.49692
11/16/2018 1:45	13.1	71.9								42.4325;-76.49704
11/16/2018 1:50	13.1	74.9								42.4325;-76.49743
11/16/2018 1:55	13.1	68.8								
11/16/2018 1:55										42.43259;-76.49708
11/16/2018 2:00	13.1	67.8								
11/16/2018 2:00										42.43204;-76.49684
11/16/2018 2:05	13.1	72.9								
11/16/2018 2:05										42.43233;-76.49689
11/16/2018 2:10	13.2	70.9								
11/16/2018 2:15	13.2	73.9								42.43178;-76.49683
11/16/2018 2:20	13.2	67.8								42.43255;-76.49671
11/16/2018 2:25	13.2	69.8								
11/16/2018 2:25										42.43276;-76.49763
11/16/2018 2:30	13.2	67.8								
11/16/2018 2:30										42.43231;-76.49658
11/16/2018 2:35	13.2	72.9								
11/16/2018 2:35										42.43205;-76.49684
11/16/2018 2:40	13.2	81								42.4323;-76.49683
11/16/2018 2:45	13.2	67.8								42.43224;-76.49711
11/16/2018 2:50	13.2	72.9								42.43226;-76.49729
11/16/2018 2:55	13.2	68.8								
11/16/2018 2:55										42.43247;-76.49755
11/16/2018 3:00	13.2	74.9								
11/16/2018 3:05	13.2	68.8								
11/16/2018 3:05										42.43296;-76.49767
11/16/2018 3:10	13.2	75.9								42.43228;-76.49684
11/16/2018 3:15	13.3	67.8								42.43194;-76.49652
11/16/2018 3:20	13.3	73.9								42.43281;-76.49717
11/16/2018 3:25	13.3	67.8								
11/16/2018 3:25										42.43235;-76.49712
11/16/2018 3:30	13.3	84								
11/16/2018 3:30										42.43235;-76.49681
11/16/2018 3:35	13.3	75.9								
11/16/2018 3:35										42.43204;-76.4966
11/16/2018 3:40	13.3	68.8								42.43271;-76.49752
11/16/2018 3:45	13.3	69.8								42.43391;-76.49969
11/16/2018 3:50	13.3	70.9								42.43228;-76.49712
11/16/2018 3:55	13.3	74.9								
11/16/2018 3:55										42.43242;-76.49708
11/16/2018 4:00	13.3	67.8								
11/16/2018 4:00										42.43235;-76.497
11/16/2018 4:05	13.3	72.9								
11/16/2018 4:05										42.43219;-76.49702
11/16/2018 4:10	13.4	67.8								42.43215;-76.49683
11/16/2018 4:15	13.4	66.8								42.43221;-76.49705
11/16/2018 4:20	13.4	70.9								42.43229;-76.49713
11/16/2018 4:25	13.4	67.8								
11/16/2018 4:25										42.43235;-76.49664
11/16/2018 4:30	13.4	83								
11/16/2018 4:30										42.4321;-76.49751
11/16/2018 4:35	13.5	68.8								
11/16/2018 4:35										42.43218;-76.49723
11/16/2018 4:40	13.5	71.9								42.43225;-76.4969
11/16/2018 4:45	13.5	65.8								42.43214;-76.49691
11/16/2018 4:50	13.5	67.8								42.43187;-76.49658
11/16/2018 4:55	13.5	68.8								
11/16/2018 4:55										42.43231;-76.4974
11/16/2018 5:00	13.6	68.8								
11/16/2018 5:00										42.43234;-76.49765
11/16/2018 5:05	13.6	75.9								
11/16/2018 5:05										42.43239;-76.49719
11/16/2018 5:10	13.5	69.8								42.43209;-76.49678
11/16/2018 5:15	13.6	82								42.43249;-76.4966
11/16/2018 5:20	13.6	65.8								42.4324;-76.49673
11/16/2018 5:25	13.7	75.9								
11/16/2018 5:25										42.43217;-76.49715
11/16/2018 5:30	13.7	68.8								
11/16/2018 5:30										42.43232;-76.49731
11/16/2018 5:35	13.7	67.8								
11/16/2018 5:35										42.43225;-76.49719
11/16/2018 5:40	13.8	65.8								42.43247;-76.49687
11/16/2018 5:45	13.8	65.8								42.43223;-76.497
11/16/2018 5:50	13.8	67.8								42.43215;-76.49677
11/16/2018 5:55	13.9	73.9								
11/16/2018 5:55										42.43221;-76.49664
11/16/2018 6:00	13.9	72.9								
11/16/2018 6:00										42.43262;-76.49734
11/16/2018 6:05	14	64.8								
11/16/2018 6:05										42.432;-76.49679
11/16/2018 6:10	13.2	73.9								42.43236;-76.49733
11/16/2018 6:15	13	68.8								42.43245;-76.49722
11/16/2018 6:20	13	81								42.43233;-76.49712
11/16/2018 6:25	13	80								
11/16/2018 6:25										42.43235;-76.49718
11/16/2018 6:30	12.9	75.9								

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/16/2018 6:30										42.43214;-76.49711
11/16/2018 6:35	12.9	68.8								
11/16/2018 6:35										42.43252;-76.49697
11/16/2018 6:40	12.9	73.9								42.43227;-76.49707
11/16/2018 6:45	12.9	69.8								42.43225;-76.49704
11/16/2018 6:50	12.9	79								42.43229;-76.4968
11/16/2018 6:55	12.9	70.9								
11/16/2018 6:55										42.43243;-76.49678
11/16/2018 7:00	12.9	68.8								
11/16/2018 7:00										42.43253;-76.49726
11/16/2018 7:05	12.9	75.9								
11/16/2018 7:05										42.43235;-76.49695
11/16/2018 7:10	12.8	69.8								42.43228;-76.49699
11/16/2018 7:15	12.9	79								42.43188;-76.49688
11/16/2018 7:20	12.9	80								42.43224;-76.49692
11/16/2018 7:25	12.8	70.9								
11/16/2018 7:25										42.43229;-76.49727
11/16/2018 7:30	12.8	73.9								
11/16/2018 7:30										42.43233;-76.49741
11/16/2018 7:35	12.9	70.9								
11/16/2018 7:35										42.43227;-76.49664
11/16/2018 7:40	12.8	76.9								42.43217;-76.49686
11/16/2018 7:45	12.8	69.8								42.43232;-76.49723
11/16/2018 7:50	12.8	76.9								42.43241;-76.49703
11/16/2018 7:55	12.8	69.8								
11/16/2018 7:55										42.43219;-76.4971
11/16/2018 8:00	12.8	70.9								
11/16/2018 8:00										42.43216;-76.49698
11/16/2018 8:05	12.8	70.9								
11/16/2018 8:05										42.43225;-76.49709
11/16/2018 8:10	12.8	74.9								42.43237;-76.49676
11/16/2018 8:15	12.8	80								42.43234;-76.49717
11/16/2018 8:20	12.8	69.8								42.43247;-76.49718
11/16/2018 8:25	12.8	69.8								
11/16/2018 8:25										42.43206;-76.49704
11/16/2018 8:30	12.8	71.9								
11/16/2018 8:30										42.43225;-76.4969
11/16/2018 8:35	12.8	70.9								
11/16/2018 8:35										42.43225;-76.49697
11/16/2018 8:40	12.8	74.9								42.43237;-76.49707
11/16/2018 8:45	12.8	69.8								42.43285;-76.49751
11/16/2018 8:50	12.8	75.9								42.43213;-76.4969
11/16/2018 8:55	12.8	70.9								
11/16/2018 8:55										42.4321;-76.49686
11/16/2018 9:00	12.8	70.9								
11/16/2018 9:00										42.43266;-76.49718
11/16/2018 9:05	12.8	70.9								
11/16/2018 9:05										42.43221;-76.49717
11/16/2018 9:10	12.8	80								42.43222;-76.49682
11/16/2018 9:15	12.8	77.9								42.43245;-76.49696
11/16/2018 9:20	12.7	70.9								42.43226;-76.49688
11/16/2018 9:25	12.8	69.8								
11/16/2018 9:25										42.4323;-76.49707
11/16/2018 9:30	12.8	74.9								
11/16/2018 9:30										42.43224;-76.49663
11/16/2018 9:35	12.8	74.9								
11/16/2018 9:35										42.43236;-76.49628
11/16/2018 9:40	12.8	87								42.43222;-76.4971
11/16/2018 9:45	12.8	70.9								42.43214;-76.49691
11/16/2018 9:50	12.8	71.9								42.43255;-76.49693
11/16/2018 9:55	12.8	82								
11/16/2018 9:55										42.43216;-76.49693
11/16/2018 10:00	12.8	70.9								
11/16/2018 10:00										42.43267;-76.49728
11/16/2018 10:05	12.8	87								
11/16/2018 10:10	12.8	82								
11/16/2018 10:15	12.8	69.8								42.43171;-76.49757
11/16/2018 10:20	12.8	79								
11/16/2018 10:25	12.8	70.9								
11/16/2018 10:25										42.43198;-76.49667
11/16/2018 10:30	12.7	77.9								
11/16/2018 10:30										42.43213;-76.4965
11/16/2018 10:35	12.8	70.9								
11/16/2018 10:35										42.43218;-76.49694
11/16/2018 10:40	12.7	80								42.43211;-76.4967
11/16/2018 10:45	12.8	70.9								42.43265;-76.49649
11/16/2018 10:50	12.8	70.9								
11/16/2018 10:55	12.8	69.8								
11/16/2018 10:55										42.43259;-76.49746
11/16/2018 11:00	12.7	76.9								
11/16/2018 11:00										42.43248;-76.49653
11/16/2018 11:05	12.7	71.9								
11/16/2018 11:05										42.43268;-76.49655
11/16/2018 11:10	12.7	75.9								42.43219;-76.49737
11/16/2018 11:15	12.7	86								42.4325;-76.49675
11/16/2018 11:20	12.7	70.9								42.43225;-76.49688
11/16/2018 11:25	12.7	81								
11/16/2018 11:25										42.43193;-76.49699
11/16/2018 11:30	12.7	70.9								
11/16/2018 11:30										42.43231;-76.49679
11/16/2018 11:35	12.7	72.9								
11/16/2018 11:35										42.43337;-76.49769
11/16/2018 11:40	12.7	70.9								42.43336;-76.4978
11/16/2018 11:45	12.7	69.8								42.43259;-76.49722
11/16/2018 11:50	12.7	80								42.43247;-76.4967
11/16/2018 11:55	12.7	72.9								
11/16/2018 11:55										42.43224;-76.4968
11/16/2018 12:00	12.7	79								
11/16/2018 12:00										42.43222;-76.497
11/16/2018 12:05	12.7	69.8								
11/16/2018 12:05										42.43235;-76.49693
11/16/2018 12:10	12.7	88.1								42.43321;-76.49695
11/16/2018 12:15	12.7	71.9								42.43227;-76.49316
11/16/2018 12:20	12.7	85								
11/16/2018 12:25	12.7	80								
11/16/2018 12:25										42.43239;-76.49694
11/16/2018 12:30	12.7	70.9								
11/16/2018 12:30										42.4321;-76.49708
11/16/2018 12:35	12.7	79								

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/16/2018 12:35										42.43214;-76.49706
11/16/2018 12:40	12.8	70.9								42.43279;-76.4975
11/16/2018 12:45	12.8	72.9								42.43219;-76.49718
11/16/2018 12:50	12.7	74.9								42.43196;-76.49672
11/16/2018 12:55	12.8	69.8								
11/16/2018 12:55										42.43225;-76.49668
11/16/2018 13:00	12.8	73.9								
11/16/2018 13:00										42.43236;-76.49689
11/16/2018 13:05	12.7	77.9								
11/16/2018 13:05										42.43212;-76.49686
11/16/2018 13:10	12.7	70.9								42.4323;-76.49683
11/16/2018 13:15	12.8	80								42.43226;-76.49698
11/16/2018 13:20	12.7	70.9								42.43248;-76.49684
11/16/2018 13:25	12.7	79								
11/16/2018 13:25										42.4327;-76.49675
11/16/2018 13:30	12.7	86								
11/16/2018 13:30										42.43293;-76.49706
11/16/2018 13:35	12.7	70.9								
11/16/2018 13:35										42.43232;-76.49707
11/16/2018 13:40	12.7	70.9								42.43288;-76.49767
11/16/2018 13:45	12.7	77.9								42.43199;-76.4967
11/16/2018 13:50	12.7	80								42.43157;-76.49826
11/16/2018 13:55	12.7	73.9								
11/16/2018 13:55										42.43239;-76.4972
11/16/2018 14:00	12.7	70.9								
11/16/2018 14:00										42.43246;-76.49715
11/16/2018 14:05	12.7	70.9								
11/16/2018 14:05										42.43243;-76.49746
11/16/2018 14:10	12.7	76.9								
11/19/2018 14:45										42.43271;-76.4974
11/19/2018 14:46			0	0	0	0	0	0	0.051	
11/19/2018 14:47			0	0	0	0	0	0	0.048	
11/19/2018 14:48			0	0	0	0	0	0	0.048	
11/19/2018 15:19			0	0	0	0	0	0.004	0.038	
11/19/2018 15:20	12.4	72.9	0	0	0	0	0	0.004	0.039	42.43283;-76.49762
11/19/2018 15:21			0	0	0	0	0	0.004	0.038	
11/19/2018 15:22			0	0	0	0	0	0.004	0.037	
11/19/2018 15:23			0	0	0	0	0	0.004	0.037	
11/19/2018 15:24			0	0	0	0	0	0.004	0.037	
11/19/2018 15:25	12.4	70.9	0	0	0	0	0	0.004	0.035	42.43288;-76.49743
11/19/2018 15:26			0	0	0	0	0	0.004	0.035	
11/19/2018 15:27			0	0	0	0	0	0.004	0.036	
11/19/2018 15:28			0	0	0	0	0	0.004	0.036	
11/19/2018 15:29			0	0	0	0	0	0.004	0.036	
11/19/2018 15:30	12.4	74.9	0	0	0	0	0	0.004	0.036	42.43287;-76.49753
11/19/2018 15:31			0	0	0	0	0	0.005	0.036	
11/19/2018 15:32			0	0	0	0	0	0.005	0.037	
11/19/2018 15:33			0	0	0	0	0	0.005	0.037	
11/19/2018 15:34			0	0	0	0	0	0.005	0.037	
11/19/2018 15:35	12.4	77.9	0	0	0	0	0	0.005	0.037	42.43288;-76.49753
11/19/2018 15:36			0	0	0	0	0	0.005	0.038	
11/19/2018 15:37			0	0	0	0	0	0.005	0.037	
11/19/2018 15:38			0	0	0	0	0	0.005	0.035	
11/19/2018 15:39			0	0	0	0	0	0.005	0.035	
11/19/2018 15:40	12.4	76.9	0	0	0	0	0	0.005	0.034	42.43292;-76.49758
11/19/2018 15:41			0	0	0	0	0	0.005	0.035	
11/19/2018 15:42			0	0	0	0	0	0.005	0.035	
11/19/2018 15:43			0	0	0	0	0	0.005	0.035	
11/19/2018 15:44			0	0	0	0	0	0.005	0.034	
11/19/2018 15:45	12.4	77.9	0	0	0	0	0	0.006	0.034	42.43288;-76.49754
11/19/2018 15:46			0	0	0	0	0	0.006	0.034	
11/19/2018 15:47			0	0	0	0	0	0.006	0.034	
11/19/2018 15:48			0	0	0	0	0	0.006	0.033	
11/19/2018 15:49			0	0	0	0	0	0.006	0.035	
11/19/2018 15:50	12.4	83	0	0	0	0	0	0.006	0.035	42.43289;-76.49753
11/19/2018 15:51			0	0	0	0	0	0.006	0.035	
11/19/2018 15:52			0	0	0	0	0	0.006	0.038	
11/19/2018 15:53			0	0	0	0	0	0.006	0.038	
11/19/2018 15:54			0	49.582	0.595	0.018	11.868	0.006	0.041	
11/19/2018 15:55	12.4	72.9	0	49.582	1.431	0.044	1.096	0.006	0.04	42.43285;-76.49751
11/19/2018 15:56			0	49.582	1.504	0.047	2.907	0.006	0.036	
11/19/2018 15:57			0	49.582	1.722	0.053	0	0.006	0.035	
11/19/2018 15:58			0	49.582	1.726	0.053	0	0.007	0.032	
11/19/2018 15:59			0	49.582	1.726	0.053	0	0.007	0.031	
11/19/2018 16:00	12.4	76.9	0	49.582	1.726	0.053	0	0.007	0.031	42.43289;-76.49745
11/19/2018 16:01			0	49.582	1.73	0.054	0	0.007	0.031	
11/19/2018 16:02			0	49.582	1.73	0.054	0	0.007	0.032	
11/19/2018 16:03			0	49.582	1.73	0.054	0	0.007	0.033	
11/19/2018 16:04			0	49.582	1.73	0.054	0	0.007	0.033	
11/19/2018 16:05	12.4	72.9	0	49.582	1.73	0.054	0	0.007	0.03	42.43277;-76.49741
11/19/2018 16:06			0	49.582	1.73	0.054	0	0.007	0.031	
11/19/2018 16:07			0	49.582	1.73	0.054	0	0.007	0.031	
11/19/2018 16:08			0	49.582	1.73	0.054	0	0.007	0.031	
11/19/2018 16:09			0	49.582	1.135	0.054	0	0.007	0.028	
11/19/2018 16:10	12.5	88.1	0	49.582	0.299	0.054	0	0.007	0.028	42.43284;-76.49748
11/19/2018 16:11			0	49.582	0.226	0.054	0	0.007	0.028	
11/19/2018 16:12			0	49.582	0.008	0.054	0	0.007	0.028	
11/19/2018 16:13			0	49.582	0.004	0.054	0	0.007	0.028	
11/19/2018 16:14			0	49.582	0.004	0.054	0	0.008	0.027	
11/19/2018 16:15	12.4	75.9	0	49.582	0.004	0.054	0	0.008	0.028	42.43287;-76.4975
11/19/2018 16:16			0	49.582	0	0.054	0	0.008	0.027	
11/19/2018 16:17			0	49.582	0	0.054	0	0.008	0.028	
11/19/2018 16:18			0	49.582	0	0.054	0	0.008	0.029	
11/19/2018 16:19			0	49.582	0	0.054	0	0.008	0.03	
11/19/2018 16:20	12.4	76.9	0	49.582	0	0.054	0	0.008	0.03	42.43295;-76.49752
11/19/2018 16:21			0	49.582	0	0.054	0	0.008	0.029	
11/19/2018 16:22			0	49.582	0	0.054	0	0.008	0.028	
11/19/2018 16:23			0	49.582	0	0.054	0	0.008	0.029	
11/19/2018 16:24			0	49.582	0	0.054	0	0.008	0.029	
11/19/2018 16:25	12.5	103.2	0	49.582	0	0.054	0	0.008	0.029	42.43297;-76.49757
11/19/2018 16:26			0	49.582	0	0.054	0	0.008	0.029	
11/19/2018 16:27			0	49.582	0	0.054	0	0.008	0.029	
11/19/2018 16:28			0	49.582	0	0.054	0	0.008	0.029	
11/19/2018 16:29			0	49.582	0	0.054	0	0.008	0.029	
11/19/2018 16:30	12.4	80	0	49.582	0	0.054	0	0.008	0.028	
11/19/2018 16:30										42.43292;-76.49754
11/19/2018 16:31			0	49.582	0	0.054	0	0.009	0.029	
11/19/2018 16:32			0	49.582	0	0.054	0	0.009	0.029	
11/19/2018 16:33			0	49.582	0	0.054	0	0.009	0.03	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/19/2018 16:34			0	49.582	0	0.054	0	0.009	0.03	
11/19/2018 16:35	12.4	74.9	0	49.582	0	0.054	0	0.009	0.029	
11/19/2018 16:35										42.43299;-76.49756
11/19/2018 16:36			0	49.582	0	0.054	0	0.009	0.03	
11/19/2018 16:37			0	49.582	0	0.054	0	0.009	0.03	
11/19/2018 16:38			0	49.582	0	0.054	0	0.009	0.03	
11/19/2018 16:39			0	49.582	0	0.054	0	0.009	0.03	
11/19/2018 16:40	12.4	95.1	0	49.582	0	0.054	0	0.009	0.03	
11/19/2018 16:40										42.43293;-76.49752
11/19/2018 16:41			0	49.582	0	0.054	0	0.009	0.03	
11/19/2018 16:42			0	49.582	0	0.054	0	0.009	0.031	
11/19/2018 16:43			0	49.582	0	0.054	0	0.009	0.031	
11/19/2018 16:44			0	49.582	0	0.054	0	0.009	0.03	
11/19/2018 16:45	12.4	73.9	0	49.582	0	0.054	0	0.009	0.03	
11/19/2018 16:45										42.43321;-76.4976
11/19/2018 16:46			0	49.582	0	0.054	0	0.009	0.03	
11/19/2018 16:47			0	49.582	0	0.054	0	0.01	0.029	
11/19/2018 16:48			0	49.582	0	0.054	0	0.01	0.029	
11/19/2018 16:49			0	49.582	0	0.054	0	0.01	0.028	
11/19/2018 16:50	12.4	72.9	0	49.582	0	0.054	0	0.01	0.028	
11/19/2018 16:50										42.43314;-76.49761
11/19/2018 16:51			0	49.582	0	0.054	0	0.01	0.028	
11/19/2018 16:52			0	49.582	0	0.054	0	0.01	0.027	
11/19/2018 16:53			0	49.582	0	0.054	0	0.01	0.026	
11/19/2018 16:54			0	49.582	0	0.054	0	0.01	0.027	
11/19/2018 16:55	12.4	71.9	0	49.582	0	0.054	0	0.01	0.027	
11/19/2018 16:55										42.43296;-76.49753
11/19/2018 16:56			0	49.582	0	0.054	0	0.01	0.027	
11/19/2018 16:57			0	49.582	0	0.054	0	0.01	0.028	
11/19/2018 16:58			0	49.582	0	0.054	0	0.01	0.028	
11/19/2018 16:59			0	49.582	0	0.054	0	0.01	0.026	
11/19/2018 17:00	12.4	72.9	0	49.582	0	0.054	0	0.01	0.026	
11/19/2018 17:00										42.4331;-76.49758
11/19/2018 17:01			0	49.582	0	0.054	0	0.01	0.025	
11/19/2018 17:02			0	49.582	0	0.054	0	0.01	0.026	
11/19/2018 17:03			0	49.582	0	0.054	0	0.01	0.026	
11/19/2018 17:04			0	49.582	0	0.054	0	0.01	0.026	
11/19/2018 17:05	12.4	74.9	0	49.582	0	0.054	0	0.011	0.027	
11/19/2018 17:05										42.43287;-76.49752
11/19/2018 17:06			0	49.582	0	0.054	0	0.011	0.025	
11/19/2018 17:07			0	49.582	0	0.054	0	0.011	0.023	
11/19/2018 17:08			0	49.582	0	0.054	0	0.011	0.023	
11/19/2018 17:09			0	49.582	0	0.054	0	0.011	0.023	
11/19/2018 17:10	12.4	79	0	49.582	0	0.054	0	0.011	0.022	
11/19/2018 17:10										42.4327;-76.49742
11/19/2018 17:11			0	49.582	0	0.054	0	0.011	0.021	
11/19/2018 17:12			0	49.582	0	0.054	0	0.011	0.022	
11/19/2018 17:13			0	49.582	0	0.054	0	0.011	0.022	
11/19/2018 17:14			0	49.582	0	0.054	0	0.011	0.022	
11/19/2018 17:45	12.3	72.9	0	49.582	0	0.054	0	0.012	0.026	
11/19/2018 17:45										42.43287;-76.49754
11/19/2018 17:46			0	49.582	0	0.054	0	0.013	0.026	
11/19/2018 17:47			0	49.582	0	0.054	0	0.013	0.025	
11/19/2018 17:48			0	49.582	0	0.054	0	0.013	0.025	
11/19/2018 17:49			0	49.582	0	0.054	0	0.013	0.024	
11/19/2018 17:50	12.4	87	0	49.582	0	0.054	0	0.013	0.023	
11/19/2018 17:50										42.43285;-76.49756
11/19/2018 17:51			0	49.582	0	0.054	0	0.013	0.025	
11/19/2018 17:52			0	49.582	0	0.054	0	0.013	0.025	
11/19/2018 17:53			0	49.582	0	0.054	0	0.013	0.024	
11/19/2018 17:54			0	49.582	0	0.054	0	0.013	0.022	
11/19/2018 17:55	12.4	72.9	0	49.582	0	0.054	0	0.013	0.02	
11/19/2018 17:55										42.43287;-76.49752
11/19/2018 17:56			0	49.582	0	0.054	0	0.013	0.022	
11/19/2018 17:57			0	49.582	0	0.054	0	0.013	0.019	
11/19/2018 17:58			0	49.582	0	0.054	0	0.013	0.022	
11/19/2018 17:59			0	49.582	0	0.054	0	0.013	0.022	
11/19/2018 18:00	12.4	72.9	0	49.582	0	0.054	0	0.013	0.021	
11/19/2018 18:00										42.4329;-76.49751
11/19/2018 18:01			0	49.582	0	0.054	0	0.013	0.022	
11/19/2018 18:02			0	49.582	0	0.054	0	0.013	0.023	
11/19/2018 18:03			0	49.582	0	0.054	0	0.013	0.025	
11/19/2018 18:04			0	49.582	0	0.054	0	0.013	0.025	
11/19/2018 18:05	12.4	73.9	0	49.582	0	0.054	0	0.013	0.025	
11/19/2018 18:05										42.43289;-76.49751
11/19/2018 18:06			0	49.582	0	0.054	0	0.013	0.024	
11/19/2018 18:07			0	49.582	0	0.054	0	0.014	0.024	
11/19/2018 18:08			0	49.582	0	0.054	0	0.014	0.024	
11/19/2018 18:09			0	49.582	0	0.054	0	0.014	0.025	
11/19/2018 18:10	12.4	76.9	0	49.582	0	0.054	0	0.014	0.023	
11/19/2018 18:10										42.43287;-76.49752
11/19/2018 18:11			0	49.582	0	0.054	0	0.014	0.022	
11/19/2018 18:12			0	49.582	0	0.054	0	0.014	0.022	
11/19/2018 18:13			0	49.582	0	0.054	0	0.014	0.023	
11/19/2018 18:14			0	49.582	0	0.054	0	0.014	0.024	
11/19/2018 18:15	12.4	72.9	0	49.582	0	0.054	0	0.014	0.02	
11/19/2018 18:15										42.43288;-76.49749
11/19/2018 18:16			0	49.582	0	0.054	0	0.014	0.025	
11/19/2018 18:17			0	49.582	0	0.054	0	0.014	0.041	
11/19/2018 18:18			0	49.582	0	0.054	0	0.014	0.027	
11/19/2018 18:19			0	49.582	0	0.054	0	0.014	0.026	
11/19/2018 18:20	12.4	72.9	0	49.582	0	0.054	0	0.014	0.027	
11/19/2018 18:20										42.43286;-76.49752
11/19/2018 18:21			0	49.582	0	0.054	0	0.014	0.028	
11/19/2018 18:22			0	49.582	0	0.054	0	0.014	0.025	
11/19/2018 18:23			0	49.582	0	0.054	0	0.014	0.023	
11/19/2018 18:24			0	49.582	0	0.054	0	0.014	0.027	
11/19/2018 18:25	12.4	72.9	0	49.582	0	0.054	0	0.014	0.021	
11/19/2018 18:25										42.43286;-76.49751
11/19/2018 18:26			0	49.582	0	0.054	0	0.015	0.019	
11/19/2018 18:27			0	49.582	0	0.054	0	0.015	0.02	
11/19/2018 18:28			0	49.582	0	0.054	0	0.015	0.028	
11/19/2018 18:29			0	49.582	0	0.054	0	0.015	0.023	
11/19/2018 18:30	12.3	79	0	49.582	0	0.054	0	0.015	0.022	
11/19/2018 18:30										42.4329;-76.49752
11/19/2018 18:31			0	49.582	0	0.054	0	0.015	0.022	
11/19/2018 18:32			0	49.582	0	0.054	0	0.015	0.022	
11/19/2018 18:33			0	49.582	0	0.054	0	0.015	0.023	
11/19/2018 18:34			0	49.582	0	0.054	0	0.015	0.023	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/19/2018 18:35	12.4	89.1	0	49.582	0	0.054	0	0.015	0.021	
11/19/2018 18:35										42.43295;-76.49751
11/19/2018 18:36			0	49.582	0	0.054	0	0.015	0.023	
11/19/2018 18:37			0	49.582	0	0.054	0	0.015	0.024	
11/19/2018 18:38			0	49.582	0	0.054	0	0.015	0.026	
11/19/2018 18:39			0	49.582	0	0.054	0	0.015	0.026	
11/19/2018 18:40	12.3	95.1	0	49.582	0	0.054	0	0.015	0.024	
11/19/2018 18:40										42.43279;-76.49754
11/19/2018 18:41			0	49.582	0	0.054	0	0.015	0.023	
11/19/2018 18:42			0	49.582	0	0.054	0	0.015	0.022	
11/19/2018 18:43			0	49.582	0	0.054	0	0.015	0.021	
11/19/2018 18:44			0	49.582	0	0.054	0	0.015	0.02	
11/19/2018 18:45	12.3	73.9	0	49.582	0	0.054	0	0.015	0.02	
11/19/2018 18:45										42.43285;-76.49753
11/19/2018 18:46			0	49.582	0	0.054	0	0.015	0.021	
11/19/2018 18:47			0	49.582	0	0.054	0	0.015	0.02	
11/19/2018 18:48			0	49.582	0	0.054	0	0.016	0.018	
11/19/2018 18:49			0	49.582	0	0.054	0	0.016	0.018	
11/19/2018 18:50	12.3	77.9	0	49.582	0	0.054	0	0.016	0.018	
11/19/2018 18:50										42.43286;-76.49751
11/19/2018 18:51			0	49.582	0	0.054	0	0.016	0.019	
11/19/2018 18:52			0	49.582	0	0.054	0	0.016	0.02	
11/19/2018 18:53			0	49.582	0	0.054	0	0.016	0.021	
11/19/2018 18:54			0	49.582	0	0.054	0	0.016	0.02	
11/19/2018 18:55	12.3	72.9	0	49.582	0	0.054	0	0.016	0.021	
11/19/2018 18:55										42.43285;-76.49753
11/19/2018 18:56			0	49.582	0	0.054	0	0.016	0.021	
11/19/2018 18:57			0	49.582	0	0.054	0	0.016	0.019	
11/19/2018 18:58			0	49.582	0	0.054	0	0.016	0.019	
11/19/2018 18:59			0	49.582	0	0.054	0	0.016	0.019	
11/19/2018 19:00	12.3	81	0	49.582	0	0.054	0	0.016	0.018	
11/19/2018 19:00										42.43278;-76.49751
11/19/2018 19:01			0	49.582	0	0.054	0	0.016	0.019	
11/19/2018 19:02			0	49.582	0	0.054	0	0.016	0.018	
11/19/2018 19:03			0	49.582	0	0.054	0	0.016	0.018	
11/19/2018 19:04			0	49.582	0	0.054	0	0.016	0.018	
11/19/2018 19:05	12.4	84	0	49.582	0	0.054	0	0.016	0.018	
11/19/2018 19:05										42.43279;-76.49749
11/19/2018 19:06			0	49.582	0	0.054	0	0.016	0.018	
11/19/2018 19:07			0	49.582	0	0.054	0	0.016	0.018	
11/19/2018 19:08			0	49.582	0	0.054	0	0.016	0.019	
11/19/2018 19:09			0	49.582	0	0.054	0	0.016	0.019	
11/19/2018 19:10	12.3	75.9	0	49.582	0	0.054	0	0.016	0.018	
11/19/2018 19:10										42.4328;-76.49744
11/19/2018 19:11			0	49.582	0	0.054	0	0.016	0.018	
11/19/2018 19:12			0	49.582	0	0.054	0	0.016	0.018	
11/19/2018 19:13			0	49.582	0	0.054	0	0.017	0.018	
11/19/2018 19:14			0	49.582	0	0.054	0	0.017	0.018	
11/19/2018 19:15	12.3	73.9	0	49.582	0	0.054	0	0.017	0.018	
11/19/2018 19:15										42.43285;-76.49745
11/19/2018 19:16			0	49.582	0	0.054	0	0.017	0.018	
11/19/2018 19:17			0	49.582	0	0.054	0	0.017	0.018	
11/19/2018 19:18			0	49.582	0	0.054	0	0.017	0.018	
11/19/2018 19:19			0	49.582	0	0.054	0	0.017	0.02	
11/19/2018 19:20	12.3	72.9	0	49.582	0	0.054	0	0.017	0.019	
11/19/2018 19:20										42.4328;-76.49746
11/19/2018 19:21			0	49.582	0	0.054	0	0.017	0.019	
11/19/2018 19:22			0	49.582	0	0.054	0	0.017	0.02	
11/19/2018 19:23			0	49.582	0	0.054	0	0.017	0.019	
11/19/2018 19:24			0	49.582	0	0.054	0	0.017	0.018	
11/19/2018 19:25	12.3	83	0	49.582	0	0.054	0	0.017	0.018	
11/19/2018 19:25										42.43279;-76.4975
11/19/2018 19:26			0	49.582	0	0.054	0	0.017	0.018	
11/19/2018 19:27			0	49.582	0	0.054	0	0.017	0.017	
11/19/2018 19:28			0	49.582	0	0.054	0	0.017	0.017	
11/19/2018 19:29			0	49.582	0	0.054	0	0.017	0.017	
11/19/2018 19:30	12.3	81	0	49.582	0	0.054	0	0.017	0.02	
11/19/2018 19:30										42.43282;-76.49747
11/19/2018 19:31			0	49.582	0	0.054	0	0.017	0.019	
11/19/2018 19:32			0	49.582	0	0.054	0	0.017	0.02	
11/19/2018 19:33			0	49.582	0	0.054	0	0.017	0.018	
11/19/2018 19:34			0	49.582	0	0.054	0	0.017	0.017	
11/19/2018 19:35	12.3	72.9	0	49.582	0	0.054	0	0.017	0.018	
11/19/2018 19:35										42.43282;-76.49755
11/19/2018 19:36			0	49.582	0	0.054	0	0.017	0.017	
11/19/2018 19:37			0	49.582	0	0.054	0	0.017	0.017	
11/19/2018 19:38			0	49.582	0	0.054	0	0.017	0.018	
11/19/2018 19:39			0	49.582	0	0.054	0	0.018	0.018	
11/19/2018 20:10	12.3	77.9	0	49.582	0	0.054	0	0.019	0.017	
11/19/2018 20:10										42.43279;-76.49759
11/19/2018 20:11			0	49.582	0	0.054	0	0.019	0.017	
11/19/2018 20:12			0	49.582	0	0.054	0	0.019	0.021	
11/19/2018 20:13			0	49.582	0	0.054	0	0.019	0.03	
11/19/2018 20:14			0	49.582	0	0.054	0	0.019	0.017	
11/19/2018 20:15	12.3	85	0	49.582	0	0.054	0	0.019	0.017	
11/19/2018 20:15										42.43278;-76.49757
11/19/2018 20:16			0	49.582	0	0.054	0	0.019	0.017	
11/19/2018 20:17			0	49.582	0	0.054	0	0.019	0.018	
11/19/2018 20:18			0	49.582	0	0.054	0	0.019	0.017	
11/19/2018 20:19			0	49.582	0	0.054	0	0.019	0.017	
11/19/2018 20:20	12.3	79	0	49.582	0	0.054	0	0.019	0.017	
11/19/2018 20:20										42.43277;-76.49757
11/19/2018 20:21			0	49.582	0	0.054	0	0.019	0.017	
11/19/2018 20:22			0	49.582	0	0.054	0	0.019	0.018	
11/19/2018 20:23			0	49.582	0	0.054	0	0.019	0.018	
11/19/2018 20:24			0	49.582	0	0.054	0	0.019	0.017	
11/19/2018 20:25	12.3	76.9	0	49.582	0	0.054	0	0.019	0.018	
11/19/2018 20:25										42.4328;-76.49753
11/19/2018 20:26			0	49.582	0	0.054	0	0.019	0.018	
11/19/2018 20:27			0	49.582	0	0.054	0	0.019	0.018	
11/19/2018 20:28			0	49.582	0	0.054	0	0.019	0.018	
11/19/2018 20:29			0	49.582	0	0.054	0	0.019	0.018	
11/19/2018 20:30	12.3	76.9	0	49.582	0	0.054	0	0.019	0.018	
11/19/2018 20:30										42.43283;-76.49756
11/19/2018 20:31			0	49.582	0	0.054	0	0.019	0.018	
11/19/2018 20:32			0	49.582	0	0.054	0	0.019	0.018	
11/19/2018 20:33			0	49.582	0	0.054	0	0.02	0.018	
11/19/2018 20:34			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:35	12.3	77.9	0	49.582	0	0.054	0	0.02	0.017	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/19/2018 20:35										42.43281;-76.49755
11/19/2018 20:36			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:37			0	49.582	0	0.054	0	0.02	0.018	
11/19/2018 20:38			0	49.582	0	0.054	0	0.02	0.018	
11/19/2018 20:39			0	49.582	0	0.054	0	0.02	0.018	
11/19/2018 20:40	12.3	84	0	49.582	0	0.054	0	0.02	0.018	
11/19/2018 20:40										42.43279;-76.49757
11/19/2018 20:41			0	49.582	0	0.054	0	0.02	0.018	
11/19/2018 20:42			0	49.582	0	0.054	0	0.02	0.018	
11/19/2018 20:43			0	49.582	0	0.054	0	0.02	0.018	
11/19/2018 20:44			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:45	12.3	77.9	0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:45										42.43285;-76.49762
11/19/2018 20:46			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:47			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:48			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:49			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:50	12.2	73.9	0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:50										42.43282;-76.49754
11/19/2018 20:51			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:52			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:53			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:54			0	49.582	0	0.054	0	0.02	0.018	
11/19/2018 20:55	12.2	87	0	49.582	0	0.054	0	0.02	0.018	
11/19/2018 20:55										42.43283;-76.49757
11/19/2018 20:56			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:57			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:58			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 20:59			0	49.582	0	0.054	0	0.02	0.017	
11/19/2018 21:00	12.2	84	0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:00										42.43283;-76.4976
11/19/2018 21:01			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:02			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:03			0	49.582	0	0.054	0	0.021	0.017	
11/19/2018 21:04			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:05	12.2	73.9	0	49.582	0	0.054	0	0.021	0.017	
11/19/2018 21:05										42.43285;-76.49756
11/19/2018 21:06			0	49.582	0	0.054	0	0.021	0.017	
11/19/2018 21:07			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:08			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:09			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:10	12.2	74.9	0	49.582	0	0.054	0	0.021	0.017	
11/19/2018 21:10										42.43285;-76.49749
11/19/2018 21:11			0	49.582	0	0.054	0	0.021	0.017	
11/19/2018 21:12			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:13			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:14			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:15	12.2	81	0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:15										42.43282;-76.49756
11/19/2018 21:16			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:17			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:18			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:19			0	49.582	0	0.054	0	0.021	0.017	
11/19/2018 21:20	12.2	72.9	0	49.582	0	0.054	0	0.021	0.017	
11/19/2018 21:20										42.43281;-76.49755
11/19/2018 21:21			0	49.582	0	0.054	0	0.021	0.017	
11/19/2018 21:22			0	49.582	0	0.054	0	0.021	0.017	
11/19/2018 21:23			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:24			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:25	12.2	73.9	0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:25										42.43281;-76.49757
11/19/2018 21:26			0	49.582	0	0.054	0	0.021	0.018	
11/19/2018 21:27			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:28			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:29			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:30	12.2	73.9	0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:30										42.43283;-76.49751
11/19/2018 21:31			0	49.582	0	0.054	0	0.022	0.019	
11/19/2018 21:32			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:33			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:34			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:35	12.2	73.9	0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:35										42.43285;-76.49751
11/19/2018 21:36			0	49.582	0	0.054	0	0.022	0.019	
11/19/2018 21:37			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:38			0	49.582	0	0.054	0	0.022	0.019	
11/19/2018 21:39			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:40	12.2	75.9	0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:40										42.43295;-76.49754
11/19/2018 21:41			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:42			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:43			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:44			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:45	12.2	79	0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:45										42.4329;-76.49756
11/19/2018 21:46			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:47			0	49.582	0	0.054	0	0.022	0.019	
11/19/2018 21:48			0	49.582	0	0.054	0	0.022	0.019	
11/19/2018 21:49			0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:50	12.2	69.8	0	49.582	0	0.054	0	0.022	0.018	
11/19/2018 21:50										42.43288;-76.49757
11/19/2018 21:51			0	49.582	0	0.054	0	0.022	0.019	
11/19/2018 21:52			0	49.582	0	0.054	0	0.022	0.019	
11/19/2018 21:53			0	49.582	0	0.054	0	0.022	0.019	
11/19/2018 21:54			0	49.582	0	0.054	0	0.023	0.019	
11/19/2018 21:55	12.2	91.1	0	49.582	0	0.054	0	0.023	0.019	
11/19/2018 21:55										42.43309;-76.49757
11/19/2018 21:56			0	49.582	0	0.054	0	0.023	0.02	
11/19/2018 21:57			0	49.582	0	0.054	0	0.023	0.019	
11/19/2018 21:58			0	49.582	0	0.054	0	0.023	0.019	
11/19/2018 21:59			0	49.582	0	0.054	0	0.023	0.019	
11/19/2018 22:00	12.2	80	0	49.582	0	0.054	0	0.023	0.019	
11/19/2018 22:00										42.43287;-76.49754
11/19/2018 22:01			0	49.582	0	0.054	0	0.023	0.019	
11/19/2018 22:02			0	49.582	0	0.054	0	0.023	0.019	
11/19/2018 22:03			0	49.582	0	0.054	0	0.023	0.019	
11/19/2018 22:04			0	49.582	0	0.054	0	0.023	0.019	
11/26/2018 14:40	13	94.1								

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/26/2018 14:41			0	0	0	0	0			
11/26/2018 14:42			0	0	0	0	0			
11/26/2018 14:43			0	0	0	0	0			
11/26/2018 14:44			0	0	0	0	0			
11/26/2018 14:45	12.9	72.9	0	0	0	0	0			
11/26/2018 14:45										42.42773;-76.50078
11/26/2018 14:46			0	19.587	0	0	0			
11/26/2018 14:47			0	19.587	0	0.007	0			
11/26/2018 14:48			0	19.587	0	0.007	0			
11/26/2018 14:49			0	19.587	0	0.007	0			
11/26/2018 14:50	12.9	70.9	0	19.587	0	0.007	0			
11/26/2018 14:50										42.42777;-76.50075
11/26/2018 14:51			0	19.587	0	0.007	0			
11/26/2018 14:52			0	19.587	0	0.007	0			
11/26/2018 14:53			0	19.587	0	0.007	0			
11/26/2018 14:54			0	19.587	0	0.007	0			
11/26/2018 14:55	12.9	69.8	0	19.587	0	0.007	0			
11/26/2018 14:55										42.42775;-76.50079
11/26/2018 14:56			0	19.587	0.254	0.007	0			
11/26/2018 14:57			0	19.587	0.254	0.007	0			
11/26/2018 14:58			0	19.587	0.254	0.007	0			
11/26/2018 14:59			0	19.587	0.254	0.007	0			
11/26/2018 15:00	12.9	74.9	0	19.587	0.254	0.007	0			
11/26/2018 15:00										42.42771;-76.50073
11/26/2018 15:01			0	19.587	0.254	0.007	0			
11/26/2018 15:02			0	19.587	0	0.007	0			
11/26/2018 15:03			0	19.587	0	0.007	0			
11/26/2018 15:04			0	19.587	0	0.007	0			
11/26/2018 15:05	12.9	69.8	0	19.587	0	0.007	0			42.42782;-76.50076
11/26/2018 15:06			0	19.587	0	0.007	0			
11/26/2018 15:07			0	19.587	0	0.007	0			
11/26/2018 15:08			0	19.587	0	0.007	0			
11/26/2018 15:09			0	19.587	0	0.007	0			
11/26/2018 15:10	12.8	77.9	0	19.587	0	0.007	0			42.42775;-76.50079
11/26/2018 15:11			0	19.587	0	0.007	0			
11/26/2018 15:12			0	19.587	0	0.007	0			
11/26/2018 15:13			0	19.587	0	0.007	0			
11/26/2018 15:14			0	19.587	0	0.007	0			
11/26/2018 15:15	12.9	79	0	19.587	0	0.007	0			42.42773;-76.50073
11/26/2018 15:16			0	19.587	0	0.007	0			
11/26/2018 15:17			0	19.587	0	0.007	0			
11/26/2018 15:18			0	19.587	0	0.007	0			
11/26/2018 15:19			0	19.587	0	0.007	0			
11/26/2018 15:20	12.8	71.9	0	19.587	0	0.007	0			42.42777;-76.50081
11/26/2018 15:21			0	19.587	0	0.007	0			
11/26/2018 15:22			0	19.587	0	0.007	0			
11/26/2018 15:23			0	19.587	0	0.007	0			
11/26/2018 15:24			0	19.587	0	0.007	0			
11/26/2018 15:25	12.8	69.8	0	19.587	0	0.007	0			
11/26/2018 15:25										42.42771;-76.50081
11/26/2018 15:26			0	19.587	0	0.007	0			
11/26/2018 15:27			0	19.587	0	0.007	0			
11/26/2018 15:28			0	19.587	0	0.007	0			
11/26/2018 15:29			0	19.587	0	0.007	0			
11/26/2018 15:30	12.9	77.9	0	19.587	0	0.007	0			
11/26/2018 15:30										42.42772;-76.50076
11/26/2018 15:31			0	19.587	0	0.007	0			
11/26/2018 15:32			0	19.587	0	0.007	0			
11/26/2018 15:33			0	19.587	0	0.007	0			
11/26/2018 15:34			0	19.587	0	0.007	0			
11/26/2018 15:35	12.8	86	0	19.587	0	0.007	0			
11/26/2018 15:35										42.42773;-76.50077
11/26/2018 15:36			0	19.587	0	0.007	0			
11/26/2018 15:37			0	19.587	0	0.007	0			
11/26/2018 15:38			0	19.587	0	0.007	0			
11/26/2018 15:39			0	19.587	0	0.007	0			
11/26/2018 15:40	12.8	69.8	0	19.587	0	0.007	0			42.4277;-76.50077
11/26/2018 15:41			0	19.587	0	0.007	0			
11/26/2018 15:42			0	19.587	0	0.007	0			
11/26/2018 15:43			0	19.587	0	0.007	0			
11/26/2018 15:44			0	19.587	0	0.007	0			
11/26/2018 15:45	12.8	80	0	19.587	0	0.007	0			42.42774;-76.50076
11/26/2018 15:46			0	19.587	0	0.007	0			
11/26/2018 15:47			0	19.587	0	0.007	0			
11/26/2018 15:48			0	19.587	0	0.007	0			
11/26/2018 15:49			0	19.587	0	0.007	0			
11/26/2018 15:50	12.8	70.9	0	19.587	0	0.007	0			42.42779;-76.50073
11/26/2018 15:51			0	19.587	0	0.007	0			
11/26/2018 15:52			0	19.587	0	0.007	0			
11/26/2018 15:53			0	19.587	0	0.007	0			
11/26/2018 15:54			0	19.587	0	0.007	0			
11/26/2018 15:55	12.8	73.9	0	19.587	0	0.007	0			42.42774;-76.50076
11/26/2018 15:56			0	19.587	0	0.007	0			
11/26/2018 15:57			0	19.587	0	0.007	0			
11/26/2018 15:58			0	19.587	0	0.007	0			
11/26/2018 15:59			0	19.587	0	0.007	0			
11/26/2018 16:00	12.8	73.9	0	19.587	0	0.007	0			
11/26/2018 16:00										42.42774;-76.50078
11/26/2018 16:01			0	19.587	0	0.007	0			
11/26/2018 16:02			0	19.587	0	0.007	0			
11/26/2018 16:03			0	19.587	0	0.007	0			
11/26/2018 16:04			0	19.587	0	0.007	0			
11/26/2018 16:05	12.8	70.9	0	19.587	0	0.007	0			
11/26/2018 16:05										42.42778;-76.50073
11/26/2018 16:06			0	19.587	0	0.007	0			
11/26/2018 16:07			0	19.587	0	0.007	0			
11/26/2018 16:08			0	19.587	0	0.007	0			
11/26/2018 16:09			0	19.587	0	0.007	0			
11/26/2018 16:10	12.8	69.8	0	19.587	0	0.007	0			
11/26/2018 16:10										42.42775;-76.50073
11/26/2018 16:11			0	19.587	0	0.007	0			
11/26/2018 16:12			0	19.587	0	0.007	0			
11/26/2018 16:13			0	19.587	0	0.007	0			
11/26/2018 16:14			0	19.587	0	0.007	0			
11/26/2018 16:15	12.8	71.9	0	19.587	0	0.007	0			
11/26/2018 16:15										42.42774;-76.50076
11/26/2018 16:16			0	19.587	0	0.007	0			
11/26/2018 16:17			0	19.587	0	0.007	0			
11/26/2018 16:18			0	19.587	0	0.007	0			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/26/2018 16:19			0	19.587	0	0.007	0			
11/26/2018 16:20	12.8	80	0	19.587	0	0.007	0			42.42775;-76.50076
11/26/2018 16:21			0	19.587	0	0.007	0			
11/26/2018 16:22			0	19.587	0	0.007	0			
11/26/2018 16:23			0	19.587	0	0.007	0			
11/26/2018 16:24			0	19.587	0	0.007	0			
11/26/2018 16:25	12.8	71.9	0	19.587	0	0.007	0			42.42781;-76.50072
11/26/2018 16:26			0	19.587	0	0.007	0			
11/26/2018 16:27			0	19.587	0	0.007	0			
11/26/2018 16:28			0	19.587	0	0.007	0			
11/26/2018 16:29			0	19.587	0	0.007	0			
11/26/2018 16:30	12.8	72.9	0	19.587	0	0.007	0			42.42797;-76.50076
11/26/2018 16:31			0	19.587	0	0.007	0			
11/26/2018 16:32			0	19.587	0	0.007	0			
11/26/2018 16:33			0	19.587	0	0.007	0			
11/26/2018 16:34			0	19.587	0	0.007	0			
11/26/2018 16:35	12.8	70.9	0	19.587	0	0.007	0			
11/26/2018 16:35										42.42774;-76.50073
11/26/2018 16:36			0	19.587	0	0.007	0			
11/26/2018 16:37			0	19.587	0	0.007	0			
11/26/2018 16:38			0	19.587	0	0.007	0			
11/26/2018 16:39			0	19.587	0	0.007	0			
11/26/2018 16:40	12.8	70.9	0	19.587	0	0.007	0			
11/26/2018 16:40										42.42776;-76.50073
11/26/2018 16:41			0	19.587	0	0.007	0			
11/26/2018 16:42			0	19.587	0	0.007	0			
11/26/2018 16:43			0	19.587	0	0.007	0			
11/26/2018 16:44			0	19.587	0	0.007	0			
11/26/2018 16:45	12.8	71.9	0	19.587	0	0.007	0			
11/26/2018 16:45										42.42778;-76.50074
11/26/2018 16:46			0	19.587	0	0.007	0			
11/26/2018 16:47			0	19.587	0	0.007	0			
11/26/2018 16:48			0	19.587	0	0.007	0			
11/26/2018 16:49			0	19.587	0	0.007	0			
11/26/2018 16:50	12.8	73.9	0	19.587	0	0.007	0			
11/26/2018 16:50										42.42779;-76.50073
11/26/2018 16:51			0	19.587	0	0.007	0			
11/26/2018 16:52			0	19.587	0	0.007	0			
11/26/2018 16:53			0	19.587	0	0.007	0			
11/26/2018 16:54			0	19.587	0	0.007	0			
11/26/2018 16:55	12.8	79	0	19.587	0	0.007	0			42.42781;-76.50073
11/26/2018 16:56			0	19.587	0	0.007	0			
11/26/2018 16:57			0	19.587	0	0.007	0			
11/26/2018 16:58			0	19.587	0	0.007	0			
11/26/2018 16:59			0	19.587	0	0.007	0			
11/26/2018 17:00	12.8	70.9	0	19.587	0	0.007	0			42.42778;-76.50074
11/26/2018 17:01			0	19.587	0	0.007	0			
11/26/2018 17:02			0	19.587	0	0.007	0			
11/26/2018 17:03			0	19.587	0	0.007	0			
11/26/2018 17:04			0	19.587	0	0.007	0			
11/26/2018 17:05	12.8	69.8	0	19.587	0	0.007	0			42.42776;-76.50073
11/26/2018 17:06			0	19.587	0	0.007	0			
11/26/2018 17:07			0	19.587	0	0.007	0			
11/26/2018 17:08			0	19.587	0	0.007	0			
11/26/2018 17:09			0	19.587	0	0.007	0			
11/26/2018 17:10	12.8	71.9	0	19.587	0	0.007	0			42.42784;-76.50072
11/26/2018 17:11			0	19.587	0	0.007	0			
11/26/2018 17:12			0	19.587	0	0.007	0			
11/26/2018 17:13			0	19.587	0	0.007	0			
11/26/2018 17:14			0	19.587	0	0.007	0			
11/26/2018 17:15	12.8	70.9	0	19.587	0	0.007	0			
11/26/2018 17:15										42.42772;-76.50071
11/26/2018 17:16			0	19.587	0	0.007	0			
11/26/2018 17:17			0	19.587	0	0.007	0			
11/26/2018 17:18			0	19.587	0	0.007	0.09			
11/26/2018 17:19			0	19.587	0.313	0.017	0			
11/26/2018 17:20	12.8	70.9	0	19.587	0.473	0.022	0			
11/26/2018 17:20										42.42776;-76.50074
11/26/2018 17:21			0	19.587	0.475	0.022	0			
11/26/2018 17:22			0	19.587	0.475	0.022	0			
11/26/2018 17:23			0	19.587	0.475	0.022	0			
11/26/2018 17:24			0	19.587	0.475	0.022	0			
11/26/2018 17:25	12.8	76.9	0	19.587	0.475	0.022	0			
11/26/2018 17:25										42.42776;-76.50076
11/26/2018 17:26			0	19.587	0.475	0.022	0			
11/26/2018 17:27			0	19.587	0.475	0.022	0			
11/26/2018 17:28			0	19.587	0.475	0.022	0			
11/26/2018 17:29			0	19.587	0.475	0.022	0			
11/26/2018 17:30	12.8	75.9	0	19.587	0.475	0.022	0			42.42773;-76.50076
11/26/2018 17:31			0	19.587	0.475	0.022	0			
11/26/2018 17:32			0	19.587	0.475	0.022	0			
11/26/2018 17:33			0	19.587	0.475	0.022	0			
11/26/2018 17:34			0	19.587	0.162	0.022	0			
11/26/2018 17:35	12.8	70.9	0	19.587	0.001	0.022	0			42.4277;-76.50073
11/26/2018 17:36			0	19.587	0	0.022	0			
11/26/2018 17:37			0	19.587	0	0.022	0			
11/26/2018 17:38			0	19.587	0	0.022	0			
11/26/2018 17:39			0	19.587	0	0.022	0			
11/26/2018 17:40	12.8	69.8	0	19.587	0	0.022	0			42.42771;-76.50073
11/26/2018 17:41			0	19.587	0	0.022	0			
11/26/2018 17:42			0	19.587	0	0.022	0			
11/26/2018 17:43			0	19.587	0	0.022	0			
11/26/2018 17:44			0	19.587	0	0.022	0			
11/26/2018 17:45	12.8	70.9	0	19.587	0	0.022	0			42.42767;-76.50075
11/26/2018 17:46			0	19.587	0	0.022	0			
11/26/2018 17:47			0	19.587	0	0.022	0			
11/26/2018 17:48			0	19.587	0	0.022	0			
11/26/2018 17:49			0	19.587	0	0.022	0			
11/26/2018 17:50	12.8	73.9	0	19.587	0	0.022	0			
11/26/2018 17:50										42.4277;-76.50069
11/26/2018 17:51			0	19.587	0	0.022	0			
11/26/2018 17:52			0	19.587	0	0.022	0			
11/26/2018 17:53			0	19.587	0	0.022	0			
11/26/2018 17:54			0	19.587	0	0.022	0			
11/26/2018 17:55	12.8	80	0	19.587	0	0.022	0			
11/26/2018 17:55										42.42768;-76.50074
11/26/2018 17:56			0	19.587	0	0.022	0			
11/26/2018 17:57			0	19.587	0	0.022	0			
11/26/2018 17:58			0	19.587	0	0.022	0			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/26/2018 17:59			0	19.587	0	0.022	0			
11/26/2018 18:00	12.8	70.9	0	19.587	0	0.022	0			
11/26/2018 18:00										42.42769;-76.50076
11/26/2018 18:01			0	19.587	0	0.022	0			
11/26/2018 18:02			0	19.587	0	0.022	0			
11/26/2018 18:03			0	19.587	0	0.022	0			
11/26/2018 18:04			0	19.587	0	0.022	0			
11/26/2018 18:05	12.8	82	0	19.587	0	0.022	0			
11/26/2018 18:05										42.4277;-76.50079
11/26/2018 18:06			0	19.587	0	0.022	0			
11/26/2018 18:07			0	19.587	0	0.022	0			
11/26/2018 18:08			0	19.587	0	0.022	0			
11/26/2018 18:09			0	19.587	0	0.022	0			
11/26/2018 18:10	12.8	81	0	19.587	0	0.022	0			42.42774;-76.50073
11/26/2018 18:11			0	19.587	0	0.022	0			
11/26/2018 18:12			0	19.587	0	0.022	0			
11/26/2018 18:13			0	19.587	0	0.022	0			
11/26/2018 18:14			0	19.587	0	0.022	0			
11/26/2018 18:15	12.8	69.8	0	19.587	0	0.022	0			42.42772;-76.50077
11/26/2018 18:16			0	19.587	0	0.022	0			
11/26/2018 18:17			0	19.587	0	0.022	0			
11/26/2018 18:18			0	19.587	0	0.022	0			
11/26/2018 18:19			0	19.587	0	0.022	0			
11/26/2018 18:20	12.8	68.8	0	19.587	0	0.022	0			42.42773;-76.50075
11/26/2018 18:21			0	19.587	0	0.022	0			
11/26/2018 18:22			0	19.587	0	0.022	0			
11/26/2018 18:23			0	19.587	0	0.022	0			
11/26/2018 18:24			0	19.587	0	0.022	0			
11/26/2018 18:25	12.8	73.9	0	19.587	0	0.022	0			
11/26/2018 18:25										42.42774;-76.50077
11/26/2018 18:26			0	19.587	0	0.022	0			
11/26/2018 18:27			0	19.587	0	0.022	0			
11/26/2018 18:28			0	19.587	0	0.022	0			
11/26/2018 18:29			0	19.587	0	0.022	0			
11/26/2018 18:30	12.8	70.9	0	19.587	0	0.022	0			
11/26/2018 18:30										42.42767;-76.50079
11/26/2018 18:31			0	19.587	0	0.022	0			
11/26/2018 18:32			0	19.587	0	0.022	0			
11/26/2018 18:33			0	19.587	0	0.022	0			
11/26/2018 18:34			0	19.587	0	0.022	0			
11/26/2018 18:35	12.8	69.8	0	19.587	0	0.022	0			
11/26/2018 18:35										42.42768;-76.50076
11/26/2018 18:36			0	19.587	0	0.022	0			
11/26/2018 18:37			0	19.587	0	0.022	0			
11/26/2018 18:38			0	19.587	0	0.022	0			
11/26/2018 18:39			0	19.587	0	0.022	0			
11/26/2018 18:40	12.8	72.9	0	19.587	0	0.022	0			
11/26/2018 18:40										42.4277;-76.50077
11/26/2018 18:41			0	19.587	0	0.022	0			
11/26/2018 18:42			0	19.587	0	0.022	0			
11/26/2018 18:43			0	19.587	0	0.022	0			
11/26/2018 18:44			0	19.587	0	0.022	0			
11/26/2018 18:45	12.8	85	0	19.587	0	0.022	0			42.42767;-76.50076
11/26/2018 18:46			0	19.587	0	0.022	0			
11/26/2018 18:47			0	19.587	0	0.022	0			
11/26/2018 18:48			0	19.587	0	0.022	0			
11/26/2018 18:49			0	19.587	0	0.022	0			
11/26/2018 18:50	12.8	85	0	19.587	0	0.022	0			42.42772;-76.50076
11/26/2018 18:51			0	19.587	0	0.022	0			
11/26/2018 18:52			0	19.587	0	0.022	0			
11/26/2018 18:53			0	19.587	0	0.022	0			
11/26/2018 18:54			0	19.587	0	0.022	0			
11/26/2018 18:55	12.8	71.9	0	19.587	0	0.022	0			42.42773;-76.50079
11/26/2018 18:56			0	19.587	0	0.022	0			
11/26/2018 18:57			0	19.587	0	0.022	0			
11/26/2018 18:58			0	19.587	0	0.022	0			
11/26/2018 18:59			0	19.587	0	0.022	0			
11/26/2018 19:00	12.8	70.9	0	19.587	0	0.022	0			42.4277;-76.50076
11/26/2018 19:01			0	19.587	0	0.022	0			
11/26/2018 19:02			0	19.587	0	0.022	0			
11/26/2018 19:03			0	19.587	0	0.022	0			
11/26/2018 19:04			0	19.587	0	0.022	0			
11/26/2018 19:05	12.8	70.9	0	19.587	0	0.022	0			
11/26/2018 19:05										42.42775;-76.5008
11/26/2018 19:06			0	19.587	0	0.022	0			
11/26/2018 19:07			0	19.587	0	0.022	0			
11/26/2018 19:08			0	19.587	0	0.022	0			
11/26/2018 19:09			0	19.587	0	0.022	0			
11/26/2018 19:10	12.8	76.9	0	19.587	0	0.022	0			
11/26/2018 19:10										42.42771;-76.50082
11/26/2018 19:11			0	19.587	0	0.022	0			
11/26/2018 19:12			0	19.587	0	0.022	0			
11/26/2018 19:13			0	19.587	0	0.022	0			
11/26/2018 19:14			0	19.587	0	0.022	0			
11/26/2018 19:15	12.8	69.8	0	19.587	0	0.022	0			
11/26/2018 19:15										42.42777;-76.50079
11/26/2018 19:16			0	19.587	0	0.022	0			
11/26/2018 19:17			0	19.587	0	0.022	0			
11/26/2018 19:18			0	19.587	0	0.022	0			
11/26/2018 19:19			0	19.587	0	0.022	0			
11/26/2018 19:20	12.8	70.9	0	19.587	0	0.022	0			42.42804;-76.50072
11/26/2018 19:21			0	19.587	0	0.022	0			
11/26/2018 19:22			0	19.587	0	0.022	0			
11/26/2018 19:23			0	19.587	0	0.022	0			
11/26/2018 19:24			0	19.587	0	0.022	0			
11/26/2018 19:25	12.8	81	0	19.587	0	0.022	0			42.42776;-76.50076
11/26/2018 19:26			0	19.587	0	0.022	0			
11/26/2018 19:27			0	19.587	0	0.022	0			
11/26/2018 19:28			0	19.587	0	0.022	0			
11/26/2018 19:29			0	19.587	0	0.022	0			
11/26/2018 19:30	12.8	69.8	0	19.587	0	0.022	0			42.4277;-76.50081
11/26/2018 19:31			0	19.587	0	0.022	0			
11/26/2018 19:32			0	19.587	0	0.022	0			
11/26/2018 19:33			0	19.587	0	0.022	0			
11/26/2018 19:34			0	19.587	0	0.022	0			
11/26/2018 19:35	12.8	70.9	0	19.587	0	0.022	0			42.42774;-76.50081
11/26/2018 19:36			0	19.587	0	0.022	0			
11/26/2018 19:37			0	19.587	0	0.022	0			
11/26/2018 19:38			0	19.587	0	0.022	0			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/26/2018 19:39			0	19.587	0	0.022	0			
11/26/2018 19:40	12.8	69.8	0	19.587	0	0.022	0			
11/26/2018 19:40										42.42765;-76.50086
11/26/2018 19:41			0	19.587	0	0.022	0			
11/26/2018 19:42			0	19.587	0	0.022	0			
11/26/2018 19:43			0	19.587	0	0.022	0			
11/26/2018 19:44			0	19.587	0	0.022	0			
11/26/2018 19:45	12.8	73.9	0	19.587	0	0.022	0			
11/26/2018 19:45										42.42762;-76.50087
11/26/2018 19:46			0	19.587	0	0.022	0			
11/26/2018 19:47			0	19.587	0	0.022	0			
11/26/2018 19:48			0	19.587	0	0.022	0			
11/26/2018 19:49			0	19.587	0	0.022	0			
11/26/2018 19:50	12.8	73.9	0	19.587	0	0.022	0			
11/26/2018 19:50										42.42771;-76.50076
11/26/2018 19:51			0	19.587	0	0.022	0			
11/26/2018 19:52			0	19.587	0	0.022	0			
11/26/2018 19:53			0	19.587	0	0.022	0			
11/26/2018 19:54			0	19.587	0	0.022	0			
11/26/2018 19:55	12.8	70.9	0	19.587	0	0.022	0			
11/26/2018 19:55										42.42773;-76.50082
11/26/2018 19:56			0	19.587	0	0.022	0			
11/26/2018 19:57			0	19.587	0	0.022	0			
11/26/2018 19:58			0	19.587	0	0.022	0			
11/26/2018 19:59			0	19.587	0	0.022	0			
11/26/2018 20:00	12.8	70.9	0	19.587	0	0.022	0			42.4277;-76.50087
11/26/2018 20:01			0	19.587	0	0.022	0			
11/26/2018 20:02			0	19.587	0	0.022	0			
11/26/2018 20:03			0	19.587	0	0.022	0			
11/26/2018 20:04			0	19.587	0	0.022	0			
11/26/2018 20:05	12.8	79	0	19.587	0	0.022	0			42.42771;-76.50086
11/26/2018 20:06			0	19.587	0	0.022	0			
11/26/2018 20:07			0	19.587	0	0.022	0			
11/26/2018 20:08			0	19.587	0	0.022	0			
11/26/2018 20:09			0	19.587	0	0.022	0			
11/26/2018 20:10	12.8	74.9	0	19.587	0	0.022	0			42.42771;-76.50083
11/26/2018 20:11			0	19.587	0	0.022	0			
11/26/2018 20:12			0	19.587	0	0.022	0			
11/26/2018 20:13			0	19.587	0	0.022	0			
11/26/2018 20:14			0	19.587	0	0.022	0			
11/26/2018 20:15	12.8	69.8	0	19.587	0	0.022	0			
11/26/2018 20:15										42.42773;-76.50084
11/26/2018 20:16			0	19.587	0	0.022	0			
11/26/2018 20:17			0	19.587	0	0.022	0			
11/26/2018 20:18			0	19.587	0	0.022	0			
11/26/2018 20:19			0	19.587	0	0.022	0			
11/26/2018 20:20	12.8	75.9	0	19.587	0	0.022	0			
11/26/2018 20:20										42.42775;-76.50087
11/26/2018 20:21			0	19.587	0	0.022	0			
11/26/2018 20:22			0	19.587	0	0.022	0			
11/26/2018 20:23			0	19.587	0	0.022	0			
11/26/2018 20:24			0	19.587	0	0.022	0			
11/26/2018 20:25	12.8	73.9	0	19.587	0	0.022	0			
11/26/2018 20:25										42.42772;-76.50083
11/26/2018 20:26			0	19.587	0	0.022	0			
11/26/2018 20:27			0	19.587	0	0.022	0			
11/26/2018 20:28			0	19.587	0	0.022	0			
11/26/2018 20:29			0	19.587	0	0.022	0			
11/26/2018 20:30	12.8	85	0	19.587	0	0.022	0			
11/26/2018 20:30										42.42776;-76.50089
11/26/2018 20:31			0	19.587	0	0.022	0			
11/26/2018 20:32			0	19.587	0	0.022	0			
11/26/2018 20:33			0	19.587	0	0.022	0			
11/26/2018 20:34			0	19.587	0	0.022	0			
11/26/2018 20:35	12.8	69.8	0	19.587	0	0.022	0			42.42778;-76.50082
11/26/2018 20:36			0	19.587	0	0.022	0			
11/26/2018 20:37			0	19.587	0	0.022	0			
11/26/2018 20:38			0	19.587	0	0.022	0			
11/26/2018 20:39			0	19.587	0	0.022	0			
11/26/2018 20:40	12.7	70.9	0	19.587	0	0.022	0			42.42772;-76.50092
11/26/2018 20:41			0	19.587	0	0.022	0			
11/26/2018 20:42			0	19.587	0	0.022	0			
11/26/2018 20:43			0	19.587	0	0.022	0			
11/26/2018 20:44			0	19.587	0	0.022	0			
11/26/2018 20:45	12.8	83	0	19.587	0	0.022	0			42.42773;-76.5008
11/26/2018 20:46			0	19.587	0	0.022	0			
11/26/2018 20:47			0	19.587	0	0.022	0			
11/26/2018 20:48			0	19.587	0	0.022	0			
11/26/2018 20:49			0	19.587	0	0.022	0			
11/26/2018 20:50	12.7	70.9	0	19.587	0	0.022	0			42.42773;-76.50086
11/26/2018 20:51			0	19.587	0	0.022	0			
11/26/2018 20:52			0	19.587	0	0.022	0			
11/26/2018 20:53			0	19.587	0	0.022	0			
11/26/2018 20:54			0	19.587	0	0.022	0			
11/26/2018 20:55	12.8	69.8	0	19.587	0	0.022	0			
11/26/2018 20:55										42.42776;-76.50082
11/26/2018 20:56			0	19.587	0	0.022	0			
11/26/2018 20:57			0	19.587	0	0.022	0			
11/26/2018 20:58			0	19.587	0	0.022	0			
11/26/2018 20:59			0	19.587	0	0.022	0			
11/26/2018 21:00	12.7	70.9	0	19.587	0	0.022	0			
11/26/2018 21:00										42.42774;-76.50081
11/26/2018 21:01			0	19.587	0	0.022	0			
11/26/2018 21:02			0	19.587	0	0.022	0			
11/26/2018 21:03			0	19.587	0	0.022	0			
11/26/2018 21:04			0	19.587	0	0.022	0			
11/26/2018 21:05	12.7	75.9	0	19.587	0	0.022	0			
11/26/2018 21:05										42.42778;-76.5008
11/26/2018 21:06			0	19.587	0	0.022	0			
11/26/2018 21:07			0	19.587	0	0.022	0			
11/26/2018 21:08			0	19.587	0	0.022	0			
11/26/2018 21:09			0	19.587	0	0.022	0			
11/26/2018 21:10	12.7	71.9	0	19.587	0	0.022	0			42.42779;-76.50085
11/26/2018 21:11			0	19.587	0	0.022	0			
11/26/2018 21:12			0	19.587	0	0.022	0			
11/26/2018 21:13			0	19.587	0	0.022	0			
11/26/2018 21:14			0	19.587	0	0.022	0			
11/26/2018 21:15	12.7	73.9	0	19.587	0	0.022	0			42.42776;-76.50085
11/26/2018 21:16			0	19.587	0	0.022	0			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/26/2018 21:17			0	19.587	0	0.022	0			
11/26/2018 21:18			0	19.587	0	0.022	0			
11/26/2018 21:19			0	19.587	0	0.022	0			
11/26/2018 21:20	12.7	82	0	19.587	0	0.022	0			42.42781;-76.5008
11/26/2018 21:21			0	19.587	0	0.022	0			
11/26/2018 21:22			0	19.587	0	0.022	0			
11/26/2018 21:23			0	19.587	0	0.022	0			
11/26/2018 21:24			0	19.587	0	0.022	0			
11/26/2018 21:25	12.7	69.8	0	19.587	0	0.022	0			42.42785;-76.5008
11/26/2018 21:26			0	19.587	0	0.022	0			
11/26/2018 21:27			0	19.587	0	0.022	0			
11/26/2018 21:28			0	19.587	0	0.022	0			
11/26/2018 21:29			0	19.587	0	0.022	0			
11/26/2018 21:30	12.7	70.9	0	19.587	0	0.022	0			
11/26/2018 21:30										42.42778;-76.50076
11/26/2018 21:31			0	19.587	0	0.022	0			
11/26/2018 21:32			0	19.587	0	0.022	0			
11/26/2018 21:33			0	19.587	0	0.022	0			
11/26/2018 21:34			0	19.587	0	0.022	0			
11/26/2018 21:35	12.7	70.9	0	19.587	0	0.022	0			
11/26/2018 21:35										42.42781;-76.50078
11/26/2018 21:36			0	19.587	0	0.022	0			
11/26/2018 21:37			0	19.587	0	0.022	0			
11/26/2018 21:38			0	19.587	0	0.022	0			
11/26/2018 21:39			0	19.587	0	0.022	0			
11/26/2018 21:40	12.7	72.9	0	19.587	0	0.022	0			
11/26/2018 21:40										42.42779;-76.50084
11/26/2018 21:41			0	19.587	0	0.022	0			
11/26/2018 21:42			0	19.587	0	0.022	0			
11/26/2018 21:43			0	19.587	0	0.022	0			
11/26/2018 21:44			0	19.587	0	0.022	0			
11/26/2018 21:45	12.7	80	0	19.587	0	0.022	0			
11/26/2018 21:45										42.42787;-76.50081
11/26/2018 21:46			0	19.587	0	0.022	0			
11/26/2018 21:47			0	19.587	0	0.022	0			
11/26/2018 21:48			0	19.587	0	0.022	0			
11/26/2018 21:49			0	19.587	0	0.022	0			
11/26/2018 21:50	12.7	70.9	0	19.587	0	0.022	0			42.42778;-76.50079
11/26/2018 21:51			0	19.587	0	0.022	0			
11/26/2018 21:52			0	19.587	0	0.022	0			
11/26/2018 21:53			0	19.587	0	0.022	0			
11/29/2018 18:12	12.8	95.1								
11/29/2018 18:13			0	0	0	0	0			
11/29/2018 18:14			0	0	0	0	0			
11/29/2018 18:15	12.6	71.9	0	0	0	0	0	0	0.009	42.43118;-76.49776
11/29/2018 18:16			0	0	0	0	0	0	0.009	
11/29/2018 18:17			0	0	0	0	0	0	0.009	
11/29/2018 18:18			0	0	0	0	0	0	0.009	
11/29/2018 18:19			0	0	0	0	0	0	0.009	
11/29/2018 18:20	12.5	79	0	0	0	0	0	0	0.009	42.43118;-76.49773
11/29/2018 18:21			0	0	0	0	0	0	0.008	
11/29/2018 18:22			0	0	0	0	0	0	0.008	
11/29/2018 18:23			0	0	0	0	0	0	0.008	
11/29/2018 18:24			0	0	0	0	0	0	0.007	
11/29/2018 18:25	12.5	71.9	0	0	0	0	0	0	0.008	42.4312;-76.49775
11/29/2018 18:26			0	0	0	0	0	0	0.007	
11/29/2018 18:27			0	0	0	0	0	0	0.008	
11/29/2018 18:28			0	0	0	0	0	0	0.008	
11/29/2018 18:29			0	0	0	0	0	0	0.008	
11/29/2018 18:30	12.5	74.9	0	0	0	0	0	0	0.008	42.43117;-76.49778
11/29/2018 18:31			0	0	0	0	0	0	0.008	
11/29/2018 18:32			0	0	0	0	0	0	0.008	
11/29/2018 18:33			0	0	0	0	0	0	0.007	
11/29/2018 18:34			0	0	0	0	0	0	0.008	
11/29/2018 18:35	12.5	72.9	0	0	0	0	0	0	0.008	42.43117;-76.49777
11/29/2018 18:36			0	0	0	0	0	0	0.009	
11/29/2018 18:37			0	0	0	0	0	0	0.007	
11/29/2018 18:38			0	0	0	0	0	0	0.007	
11/29/2018 18:39			0	0	0	0	0	0	0.007	
11/29/2018 18:40	12.5	72.9	0	0	0	0	0	0	0.007	42.43116;-76.49778
11/29/2018 18:41			0	0	0	0	0	0	0.007	
11/29/2018 18:42			0	0	0	0	0	0	0.009	
11/29/2018 18:43			0	0.051	0	0	0	0	0.008	
11/29/2018 18:44			0	0.051	0	0	0	0	0.007	
11/29/2018 18:45	12.5	72.9	0	0.051	0	0	0	0.001	0.008	42.43117;-76.49781
11/29/2018 18:46			0	0.051	0	0	0	0.001	0.008	
11/29/2018 18:47			0	0.051	0	0	0	0.001	0.007	
11/29/2018 18:48			0	0.051	0	0	0	0.001	0.008	
11/29/2018 18:49			0	0.051	0	0	0	0.001	0.007	
11/29/2018 18:50	12.5	83	0	0.051	0	0	0	0.001	0.008	42.43116;-76.4978
11/29/2018 18:51			0	0.051	0	0	0	0.001	0.008	
11/29/2018 18:52			0	0.051	0	0	0	0.001	0.008	
11/29/2018 18:53			0	0.051	0	0	0	0.001	0.008	
11/29/2018 18:54			0	0.051	0	0	0	0.001	0.009	
11/29/2018 18:55	12.5	81	0	0.051	0	0	0	0.001	0.008	42.4312;-76.4978
11/29/2018 18:56			0	0.051	0	0	0	0.001	0.007	
11/29/2018 18:57			0	0.051	0	0	0	0.001	0.008	
11/29/2018 18:58			0	0.051	0	0	0	0.001	0.007	
11/29/2018 18:59			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:00	12.5	81	0	0.051	0	0	0	0.001	0.007	42.43116;-76.49778
11/29/2018 19:01			0	0.051	0	0	0	0.001	0.008	
11/29/2018 19:02			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:03			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:04			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:05	12.5	74.9	0	0.051	0	0	0	0.001	0.007	42.43115;-76.49782
11/29/2018 19:06			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:07			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:08			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:09			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:10	12.5	72.9	0	0.051	0	0	0	0.001	0.007	42.43125;-76.49776
11/29/2018 19:11			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:12			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:13			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:14			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:15	12.5	87	0	0.051	0	0	0	0.001	0.007	42.4312;-76.4978
11/29/2018 19:16			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:17			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:18			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:19			0	0.051	0	0	0	0.001	0.007	

Community Air Monitoring Program - Downwind Station
October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
11/29/2018 19:20	12.5	71.9	0	0.051	0	0	0	0.001	0.007	42.43114;-76.49782
11/29/2018 19:21			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:22			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:23			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:24			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:25	12.5	72.9	0	0.051	0	0	0	0.001	0.006	42.43115;-76.49783
11/29/2018 19:26			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:27			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:28			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:29			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:30	12.5	72.9	0	0.051	0	0	0	0.001	0.009	42.43118;-76.49781
11/29/2018 19:31			0	0.051	0	0	0	0.001	0.008	
11/29/2018 19:32			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:33			0	0.051	0	0	0	0.001	0.007	
11/29/2018 19:34			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:35	12.5	74.9	0	0.051	0	0	0	0.001	0.006	42.43117;-76.4978
11/29/2018 19:36			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:37			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:38			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:39			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:40	12.5	77.9	0	0.051	0	0	0	0.001	0.007	42.43114;-76.49784
11/29/2018 19:41			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:42			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:43			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:44			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:45	12.5	71.9	0	0.051	0	0	0	0.001	0.006	42.43116;-76.49784
11/29/2018 19:46			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:47			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:48			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:49			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:50	12.5	73.9	0	0.051	0	0	0	0.001	0.006	42.43117;-76.49783
11/29/2018 19:51			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:52			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:53			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:54			0	0.051	0	0	0	0.001	0.006	
11/29/2018 19:55	12.5	71.9	0	0.051	0	0	0	0.002	0.006	42.43118;-76.4978
11/29/2018 19:56			0	0.051	0	0	0	0.002	0.006	
11/29/2018 19:57			0	0.051	0	0	0	0.002	0.005	
11/29/2018 19:58			0	0.051	0	0	0	0.002	0.007	
11/29/2018 19:59			0	0.051	0	0	0	0.002	0.005	
11/29/2018 20:00	12.5	75.9	0	0.051	0	0	0	0.002	0.005	42.43117;-76.4978
11/29/2018 20:01			0	0.051	0	0	0	0.002	0.005	
11/29/2018 20:02			0	0.051	0	0	0	0.002	0.005	
11/29/2018 20:03			0	0.051	0	0	0	0.002	0.005	
11/30/2018 13:16	12.8	95.1								
11/30/2018 13:16										42.433670899999996;-76.4994735
11/30/2018 13:17			0	0	0	0	0			
11/30/2018 13:18			0	0	0	0	0			
11/30/2018 13:19			0	0	0	0	0	0	0.014	
11/30/2018 13:20	12.7	80	0	0	0	0	0	0	0.015	42.43308;-76.49796
11/30/2018 13:21			0	0	0	0	0	0	0.013	
11/30/2018 13:22			0	0	0	0	0	0	0.012	
11/30/2018 13:23			0	0	0	0	0	0	0.012	
11/30/2018 13:24			0	0	0	0	0	0	0.012	
11/30/2018 13:25	12.6	69.8	0	0	0	0	0	0	0.013	42.4329;-76.49799
11/30/2018 13:26			0	0	0	0	0	0	0.014	
11/30/2018 13:27			0	0	0	0	0	0	0.012	
11/30/2018 13:28			0	0	0	0	0	0	0.014	
11/30/2018 13:29			0	0	0	0	0	0	0.013	
11/30/2018 13:30	12.6	73.9	0	0	0	0	0	0	0.013	42.43297;-76.49794
11/30/2018 13:31			0	0	0	0	0	0	0.013	
11/30/2018 13:32			0	0	0	0	0	0	0.014	
11/30/2018 13:33			0	0	0	0	0	0	0.014	
11/30/2018 13:34			0	0	0	0	0	0	0.013	
11/30/2018 13:35	12.6	70.9	0	0	0	0	0	0	0.013	42.43295;-76.49792
11/30/2018 13:36			0	0	0	0	0	0	0.013	
11/30/2018 13:37			0	0	0	0	0	0.001	0.013	
11/30/2018 13:38			0	0	0	0	0	0.001	0.013	
11/30/2018 13:39			0	0	0	0	0	0.001	0.013	
11/30/2018 13:40	12.6	82	0	0	0	0	0	0.001	0.012	42.43294;-76.49797
11/30/2018 13:41			0	0	0	0	0	0.001	0.013	
11/30/2018 13:42			0	0	0	0	0	0.001	0.013	
11/30/2018 13:43			0	0	0	0	0	0.001	0.013	
11/30/2018 13:44			0	0	0	0	0	0.001	0.013	
11/30/2018 13:45	12.6	76.9	0	0	0	0	0	0.001	0.013	42.43298;-76.49796
11/30/2018 13:46			0	0	0	0	0	0.001	0.013	
11/30/2018 13:47			0	0	0	0	0	0.001	0.013	
11/30/2018 13:48			0	0	0	0	0	0.001	0.013	
11/30/2018 13:49			0	0	0	0	0	0.001	0.013	
11/30/2018 13:50	12.6	70.9	0	0	0	0	0	0.001	0.013	42.43305;-76.498
11/30/2018 13:51			0	0	0	0	0	0.001	0.014	
11/30/2018 13:52			0	0	0	0	0	0.001	0.014	
11/30/2018 13:53			0	0	0	0	0	0.001	0.014	
11/30/2018 13:54			0	0	0	0	0	0.001	0.014	
11/30/2018 13:55	12.6	77.9	0	0	0	0	0	0.001	0.014	42.43298;-76.49793
11/30/2018 13:56			0	0	0	0	0	0.001	0.014	
11/30/2018 13:57			0	0	0	0	0	0.001	0.013	
11/30/2018 13:58			0	0	0	0	0	0.001	0.013	
11/30/2018 13:59			0	0	0	0	0	0.001	0.013	
11/30/2018 14:00	12.6	73.9	0	0	0	0	0	0.001	0.013	42.43298;-76.49791
11/30/2018 14:01			0	0	0	0	0	0.001	0.013	
11/30/2018 14:02			0	0	0	0	0	0.001	0.013	
11/30/2018 14:03			0	0	0	0	0	0.001	0.017	
11/30/2018 14:04			0	0	0	0	0	0.001	0.013	
11/30/2018 14:05	12.5	72.9	0	0	0	0	0	0.001	0.014	42.43301;-76.49796
11/30/2018 14:06			0	0	0	0	0	0.001	0.014	
11/30/2018 14:07			0	0	0	0	0	0.001	0.014	
11/30/2018 14:08			0	0	0	0	0	0.001	0.015	
11/30/2018 14:09			0	0	0	0	0	0.001	0.014	
11/30/2018 14:10	12.5	81	0	0	0	0	0	0.001	0.014	42.43301;-76.49799
11/30/2018 14:11			0	0	0	0	0	0.001	0.014	
11/30/2018 14:12			0	0	0	0	0	0.001	0.014	
11/30/2018 14:13			0	0	0	0	0	0.002	0.014	
11/30/2018 14:14			0	0	0	0	0	0.002	0.014	
11/30/2018 14:15	12.5	71.9	0	0	0	0	0	0.002	0.014	42.43307;-76.49806
11/30/2018 14:16			0	0	0	0	0	0.002	0.015	
11/30/2018 14:17			0	0	0	0	0	0.002	0.014	
11/30/2018 14:18			0	0.262	0	0	0	0.002	0.014	
11/30/2018 14:19			0	0.262	0.001	0	0	0.002	0.014	

Appendix F

Community Air Monitoring Program - Downwind Station
October 15, 2018 to November 30, 2018

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
11/30/2018 14:20	12.5	72.9	0	0.262	0.001	0	0	0.002	0.015	42.43302;-76.49793
11/30/2018 14:21			0	0.262	0.001	0	0	0.002	0.015	
11/30/2018 14:22			0	0.262	0.001	0	0	0.002	0.014	
11/30/2018 14:23			0	0.262	0.001	0	0	0.002	0.015	
11/30/2018 14:24			0	0.262	0.001	0	0	0.002	0.016	
11/30/2018 14:25	12.5	80	0	0.262	0.001	0	0	0.002	0.015	42.43305;-76.49805

Appendix F

Community Air Monitoring Program - Upwind Station
May 15, 2019 to September 11, 2019

Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/15/2019 13:56	12.3	131.6			
5/15/2019 13:58			0	-0.014	
5/15/2019 13:59			0	-0.004	
5/15/2019 14:00	12.3	98.2	0	-0.006	42.43142;-76.49763
5/15/2019 14:01			0	-0.007	
5/15/2019 14:02			0	-0.008	
5/15/2019 14:03			0	-0.008	
5/15/2019 14:04			0	-0.009	
5/15/2019 14:05	12.3	93.1	0	-0.01	42.43086;-76.4981
5/15/2019 14:06			0	-0.01	
5/15/2019 14:07			0	-0.01	
5/15/2019 14:08			0	-0.01	
5/15/2019 14:09			0	-0.009	
5/15/2019 14:10	12.2	99.2	0	-0.011	42.43086;-76.49809
5/15/2019 14:11			0	-0.011	
5/15/2019 14:12			0	-0.011	
5/15/2019 14:13			0	-0.011	
5/15/2019 14:14			0	-0.011	
5/15/2019 14:15	12.2	91.1	0	-0.011	42.43087;-76.49809
5/15/2019 14:16			0	-0.011	
5/15/2019 14:17			0	-0.01	
5/15/2019 14:18			0	-0.011	
5/15/2019 14:19			0	-0.011	
5/15/2019 14:20	12.2	91.1	0	-0.011	42.43087;-76.4981
5/15/2019 14:21			0	-0.012	
5/15/2019 14:22			0	-0.011	
5/15/2019 14:23			0	-0.012	
5/15/2019 14:24			0	-0.011	
5/15/2019 14:25	12.3	93.1	0	-0.011	42.43084;-76.4981
5/15/2019 14:26			0	-0.011	
5/15/2019 14:27			0	-0.011	
5/15/2019 14:28			0.001	-0.011	
5/15/2019 14:29			0.001	-0.011	
5/15/2019 14:30	12.3	99.2	0.001	-0.009	42.43086;-76.49809
5/15/2019 14:31			0.001	-0.01	
5/15/2019 14:32			0.001	-0.01	
5/15/2019 14:33			0.001	-0.011	
5/15/2019 14:34			0.001	-0.011	
5/15/2019 14:35	12.3	106.3	0.001	-0.011	42.43086;-76.4981
5/15/2019 14:36			0.001	-0.011	
5/15/2019 14:37			0.001	-0.011	
5/15/2019 14:38			0.001	-0.011	
5/15/2019 14:39			0.001	-0.011	
5/15/2019 14:40	12.3	100.2	0.001	-0.011	42.43086;-76.4981
5/15/2019 14:41			0.001	-0.011	
5/15/2019 14:42			0.001	-0.011	
5/15/2019 14:43			0.001	-0.011	
5/15/2019 14:44			0.001	-0.01	
5/15/2019 14:45	12.2	91.1	0.001	-0.011	42.43087;-76.4981
5/15/2019 14:46			0.001	-0.011	
5/15/2019 14:47			0.001	-0.01	
5/15/2019 14:48			0.001	-0.01	
5/15/2019 14:49			0.001	-0.01	
5/15/2019 14:50	12.3	91.1	0.001	-0.011	42.43084;-76.49806
5/15/2019 14:51			0.001	-0.011	
5/15/2019 14:52			0.001	-0.01	
5/15/2019 14:53			0.001	-0.011	
5/15/2019 14:54			0.001	-0.011	
5/15/2019 14:55	12.3	92.1	0.001	-0.011	42.4308;-76.49802
5/15/2019 14:56			0.001	-0.01	
5/15/2019 14:57			0.001	-0.011	
5/15/2019 14:58			0.001	-0.011	
5/15/2019 14:59			0.001	-0.011	
5/15/2019 15:00	12.3	102.2	0.001	-0.011	42.4308;-76.49806
5/15/2019 15:01			0.001	-0.011	
5/15/2019 15:02			0.001	-0.01	
5/15/2019 15:03			0.001	-0.011	
5/15/2019 15:04			0.001	-0.011	
5/15/2019 15:05	12.3	103.2	0.001	-0.009	42.43085;-76.4981
5/15/2019 15:06			0.001	-0.011	
5/15/2019 15:07			0.001	-0.012	
5/15/2019 15:08			0.001	-0.011	
5/15/2019 15:09			0.001	-0.012	
5/15/2019 15:10	12.3	92.1	0.001	-0.012	42.43086;-76.49809
5/15/2019 15:11			0.001	-0.012	
5/15/2019 15:12			0.001	-0.012	
5/15/2019 15:13			0.001	-0.012	
5/15/2019 15:14			0.001	-0.012	
5/15/2019 15:15	12.3	91.1	0.001	-0.013	42.43088;-76.49809
5/15/2019 15:16			0.001	-0.013	
5/15/2019 15:17			0.001	-0.013	
5/15/2019 15:18			0.002	-0.013	
5/15/2019 15:19			0.002	-0.013	
5/15/2019 15:20	12.2	95.1	0.002	-0.013	42.43088;-76.49809
5/15/2019 15:21			0.002	-0.014	
5/15/2019 15:22			0.002	-0.014	
5/15/2019 15:23			0.002	-0.014	
5/15/2019 15:24			0.002	-0.013	
5/15/2019 15:25	12.3	96.2	0.002	-0.014	42.43092;-76.49809
5/15/2019 15:26			0.002	-0.013	
5/15/2019 15:27			0.002	-0.014	
5/15/2019 15:28			0.002	-0.013	
5/15/2019 15:29			0.002	-0.013	
5/15/2019 15:30	12.3	92.1	0.002	-0.013	42.43089;-76.49809
5/15/2019 15:31			0.002	-0.013	
5/15/2019 15:32			0.002	-0.013	
5/15/2019 15:33			0.002	-0.014	
5/15/2019 15:34			0.002	-0.014	
5/15/2019 15:35	12.3	90.1	0.002	-0.013	42.43092;-76.4981
5/15/2019 15:36			0.002	-0.013	
5/15/2019 15:37			0.002	-0.013	
5/15/2019 15:38			0.002	-0.013	
5/15/2019 15:39			0.002	-0.013	
5/15/2019 15:40	12.3	100.2	0.002	-0.013	42.43093;-76.4981
5/15/2019 15:41			0.002	-0.013	
5/15/2019 15:42			0.002	-0.013	
5/15/2019 15:43			0.002	-0.013	
5/15/2019 15:44			0.002	-0.013	
5/15/2019 15:45	12.3	102.2	0.002	-0.013	42.43092;-76.4981

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/15/2019 15:46			0.002	-0.013	
5/15/2019 15:47			0.002	-0.012	
5/15/2019 15:48			0.002	-0.013	
5/15/2019 15:49			0.002	-0.012	
5/15/2019 15:50	12.3	94.1	0.002	-0.012	42.43098;-76.49806
5/15/2019 15:51			0.002	-0.012	
5/15/2019 15:52			0.002	-0.011	
5/15/2019 15:53			0.002	-0.011	
5/15/2019 15:54			0.002	-0.011	
5/15/2019 15:55	12.3	102.2	0.002	-0.011	42.43095;-76.49786
5/15/2019 15:56			0.002	-0.012	
5/15/2019 15:57			0.002	-0.012	
5/15/2019 15:58			0.003	-0.012	
5/15/2019 15:59			0.003	-0.012	
5/15/2019 16:00	12.3	91.1	0.003	-0.012	42.43093;-76.49802
5/15/2019 16:01			0.003	-0.012	
5/15/2019 16:02			0.003	-0.012	
5/15/2019 16:03			0.003	-0.011	
5/15/2019 16:04			0.003	-0.012	
5/15/2019 16:05	12.3	88.1	0.003	-0.012	42.43093;-76.49809
5/15/2019 16:06			0.003	-0.011	
5/15/2019 16:07			0.003	-0.011	
5/15/2019 16:08			0.003	-0.012	
5/15/2019 16:09			0.003	-0.011	
5/15/2019 16:10	12.3	109.3	0.003	-0.011	42.43093;-76.4981
5/15/2019 16:11			0.003	-0.012	
5/15/2019 16:12			0.003	-0.012	
5/15/2019 16:13			0.003	-0.011	
5/15/2019 16:14			0.003	-0.012	
5/15/2019 16:15	12.3	91.1	0.003	-0.01	42.43096;-76.49812
5/15/2019 16:16			0.003	-0.011	
5/15/2019 16:17			0.003	-0.012	
5/15/2019 16:18			0.003	-0.011	
5/15/2019 16:19			0.003	-0.011	
5/15/2019 16:20	12.3	92.1	0.003	-0.012	42.43097;-76.49812
5/15/2019 16:21			0.003	-0.009	
5/15/2019 16:22			0.003	-0.011	
5/15/2019 16:23			0.003	-0.011	
5/15/2019 16:24			0.003	-0.011	
5/15/2019 16:25	12.3	102.2	0.003	-0.011	42.4308;-76.49809
5/15/2019 16:26			0.003	-0.011	
5/15/2019 16:27			0.003	-0.011	
5/15/2019 16:28			0.003	-0.011	
5/15/2019 16:29			0.003	-0.011	
5/15/2019 16:30	12.3	98.2	0.003	-0.011	42.43072;-76.49815
5/15/2019 16:31			0.003	-0.01	
5/15/2019 16:32			0.003	-0.011	
5/15/2019 16:33			0.003	-0.01	
5/15/2019 16:34			0.003	-0.011	
5/15/2019 16:35	12.3	91.1	0.003	-0.01	42.43068;-76.49815
5/15/2019 16:36			0.003	-0.011	
5/15/2019 16:37			0.003	-0.01	
5/15/2019 16:38			0.003	-0.01	
5/15/2019 16:39			0.003	-0.01	
5/15/2019 16:40	12.3	101.2	0.003	-0.01	42.43061;-76.49812
5/15/2019 16:41			0.003	-0.01	
5/15/2019 16:42			0.003	-0.01	
5/15/2019 16:43			0.003	-0.01	
5/15/2019 16:44			0.003	-0.01	
5/15/2019 16:45	12.3	100.2	0.003	-0.01	42.43073;-76.49809
5/15/2019 16:46			0.003	-0.01	
5/15/2019 16:47			0.003	-0.01	
5/15/2019 16:48			0.004	-0.01	
5/15/2019 16:49			0.004	-0.009	
5/15/2019 16:50	12.3	93.1	0.004	-0.009	42.43072;-76.49806
5/15/2019 16:51			0.004	-0.009	
5/15/2019 16:52			0.004	-0.009	
5/15/2019 16:53			0.004	-0.009	
5/15/2019 16:54			0.004	-0.008	
5/15/2019 16:55	12.3	103.2	0.004	-0.009	42.43076;-76.4981
5/15/2019 16:56			0.004	-0.008	
5/15/2019 16:57			0.004	-0.008	
5/15/2019 16:58			0.004	-0.008	
5/15/2019 16:59			0.004	-0.008	
5/15/2019 17:00	12.2	93.1	0.004	-0.008	42.43079;-76.49812
5/15/2019 17:01			0.004	-0.008	
5/15/2019 17:02			0.004	-0.008	
5/15/2019 17:03			0.004	-0.008	
5/15/2019 17:04			0.004	-0.008	
5/15/2019 17:05	12.2	97.2	0.004	-0.008	42.43081;-76.49812
5/15/2019 17:06			0.004	-0.008	
5/15/2019 17:07			0.004	-0.008	
5/15/2019 17:08			0.004	-0.008	
5/15/2019 17:09			0.004	-0.006	
5/15/2019 17:10	12.2	105.3	0.004	-0.006	42.4308;-76.49806
5/15/2019 17:11			0.004	-0.007	
5/15/2019 17:12			0.004	-0.007	
5/15/2019 17:13			0.004	-0.006	
5/15/2019 17:14			0.004	-0.007	
5/15/2019 17:15	12.2	91.1	0.004	-0.006	42.43079;-76.49809
5/15/2019 17:16			0.004	-0.007	
5/15/2019 17:17			0.004	-0.006	
5/15/2019 17:18			0.004	-0.007	
5/15/2019 17:19			0.004	-0.007	
5/15/2019 17:20	12.2	91.1	0.004	-0.007	42.43079;-76.4981
5/15/2019 17:21			0.004	-0.007	
5/15/2019 17:22			0.004	-0.006	
5/15/2019 17:23			0.004	-0.006	
5/15/2019 17:24			0.004	-0.007	
5/15/2019 17:25	12.2	100.2	0.004	-0.006	42.43075;-76.4981
5/15/2019 17:26			0.004	-0.006	
5/15/2019 17:27			0.004	-0.006	
5/15/2019 17:28			0.004	-0.006	
5/15/2019 17:29			0.004	-0.006	
5/15/2019 17:30	12.2	96.2	0.004	-0.006	42.43076;-76.49809
5/15/2019 17:31			0.004	-0.006	
5/15/2019 17:32			0.004	-0.005	
5/15/2019 17:33			0.004	-0.005	
5/15/2019 17:34			0.004	-0.005	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/15/2019 17:35	12.2	92.1	0.004	-0.005	42.43075;-76.49806
5/15/2019 17:36			0.004	-0.005	
5/15/2019 17:37			0.004	-0.004	
5/15/2019 17:38			0.004	-0.005	
5/15/2019 17:39			0.004	-0.005	
5/15/2019 17:40	12.2	92.1	0.004	-0.004	42.43084;-76.49809
5/15/2019 17:41			0.004	-0.005	
5/15/2019 17:42			0.004	-0.004	
5/15/2019 17:43			0.004	-0.004	
5/15/2019 17:44			0.004	-0.004	
5/15/2019 17:45	12.2	95.1	0.004	-0.004	42.43082;-76.4981
5/15/2019 17:46			0.004	-0.004	
5/15/2019 17:47			0.004	-0.004	
5/15/2019 17:48			0.004	-0.004	
5/15/2019 17:49			0.004	-0.004	
5/15/2019 17:50	12.2	98.2	0.004	-0.004	42.43085;-76.49812
5/15/2019 17:51			0.004	-0.004	
5/15/2019 17:52			0.004	-0.004	
5/15/2019 17:53			0.004	-0.003	
5/15/2019 17:54			0.004	-0.004	
5/15/2019 17:55	12.2	92.1	0.004	-0.003	42.43085;-76.49812
5/15/2019 17:56			0.004	-0.003	
5/15/2019 17:57			0.004	-0.003	
5/15/2019 17:58			0.004	-0.002	
5/15/2019 17:59			0.004	-0.003	
5/15/2019 18:00	12.2	94.1	0.004	0	42.43083;-76.49806
5/15/2019 18:01			0.004	0.001	
5/15/2019 18:02			0.004	-0.003	
5/15/2019 18:03			0.004	-0.003	
5/15/2019 18:04			0.004	-0.003	
5/15/2019 18:05	12.2	109.3	0.004	-0.003	42.43089;-76.49806
5/15/2019 18:06			0.004	-0.002	
5/15/2019 18:07			0.004	-0.003	
5/15/2019 18:08			0.004	-0.003	
5/15/2019 18:09			0.004	-0.003	
5/15/2019 18:10	12.2	91.1	0.004	-0.003	42.43088;-76.4981
5/15/2019 18:11			0.004	-0.003	
5/15/2019 18:12			0.004	-0.002	
5/15/2019 18:13			0.004	-0.002	
5/15/2019 18:14			0.004	-0.002	
5/15/2019 18:15	12.2	94.1	0.004	-0.002	42.4309;-76.49809
5/15/2019 18:16			0.004	-0.002	
5/15/2019 18:17			0.004	-0.001	
5/15/2019 18:18			0.004	-0.002	
5/15/2019 18:19			0.004	-0.002	
5/15/2019 18:20	12.2	92.1	0.004	-0.002	42.43087;-76.49812
5/15/2019 18:21			0.004	-0.001	
5/15/2019 18:22			0.004	0.002	
5/15/2019 18:23			0.004	-0.001	
5/15/2019 18:24			0.004	-0.001	
5/15/2019 18:25	12.2	99.2	0.004	-0.001	42.43088;-76.4981
5/15/2019 18:26			0.004	-0.001	
5/15/2019 18:27			0.004	0	
5/15/2019 18:28			0.004	-0.001	
5/15/2019 18:29			0.004	-0.001	
5/15/2019 18:30	12.2	98.2	0.004	-0.001	42.43088;-76.4981
5/15/2019 18:31			0.004	-0.001	
5/15/2019 18:32			0.004	-0.001	
5/15/2019 18:33			0.004	0	
5/15/2019 18:34			0.004	-0.001	
5/15/2019 18:35	12.2	95.1	0.004	-0.001	42.43089;-76.4981
5/15/2019 18:36			0.004	0	
5/15/2019 18:37			0.004	-0.001	
5/15/2019 18:38			0.004	0	
5/15/2019 18:39			0.004	0	
5/15/2019 18:40	12.2	100.2	0.004	0	42.43088;-76.4981
5/15/2019 18:41			0.004	0	
5/15/2019 18:42			0.004	0	
5/15/2019 18:43			0.004	0	
5/15/2019 18:44			0.004	0	
5/15/2019 18:45	12.2	102.2	0.004	0	42.43088;-76.4981
5/15/2019 18:46			0.004	0	
5/15/2019 18:47			0.004	0	
5/15/2019 18:48			0.004	0	
5/15/2019 18:49			0.004	0	
5/15/2019 18:50	12.2	93.1	0.004	0	42.43086;-76.49809
5/15/2019 18:51			0.004	0	
5/15/2019 18:52			0.004	0	
5/15/2019 18:53			0.004	0	
5/15/2019 18:54			0.004	0	
5/15/2019 18:55	12.2	94.1	0.004	0	42.4309;-76.49812
5/15/2019 18:56			0.004	0	
5/15/2019 18:57			0.004	0	
5/15/2019 18:58			0.004	0	
5/15/2019 18:59			0.004	0	
5/15/2019 19:00	12.1	104.3	0.004	0	42.4309;-76.4981
5/15/2019 19:01			0.004	0.007	
5/15/2019 19:02			0.004	0	
5/15/2019 19:03			0.004	0	
5/15/2019 19:04			0.004	0	
5/15/2019 19:05	12.2	92.1	0.004	0.001	42.43089;-76.49806
5/15/2019 19:06			0.004	0.003	
5/15/2019 19:07			0.004	0	
5/15/2019 19:08			0.004	0	
5/15/2019 19:09			0.004	0.001	
5/15/2019 19:10	12.2	94.1	0.004	0	42.43089;-76.49809
5/15/2019 19:11			0.004	0	
5/15/2019 19:12			0.004	0	
5/15/2019 19:13			0.004	0.001	
5/15/2019 19:14			0.004	0.005	
5/15/2019 19:15	12.2	102.2	0.004	0	42.43087;-76.4981
5/15/2019 19:16			0.004	0	
5/15/2019 19:17			0.004	0	
5/15/2019 19:18			0.004	0	
5/15/2019 19:19			0.004	0	
5/15/2019 19:20	12.1	92.1	0.004	0	42.43087;-76.49809
5/15/2019 19:21			0.004	0	
5/15/2019 19:22			0.004	0	
5/15/2019 19:23			0.004	0	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/15/2019 19:24			0.004	0	
5/15/2019 19:25	12.1	92.1	0.004	0	42.43088;-76.49809
5/15/2019 19:26			0.004	0	
5/15/2019 19:27			0.004	0	
5/15/2019 19:28			0.004	0	
5/15/2019 19:29			0.004	0	
5/15/2019 19:30	12.2	102.2	0.004	0	42.43084;-76.4981
5/15/2019 19:31			0.004	0	
5/15/2019 19:32			0.004	0	
5/15/2019 19:33			0.004	0	
5/15/2019 19:34			0.004	0	
5/15/2019 19:35	12.1	99.2	0.004	0	42.43078;-76.49806
5/15/2019 19:36			0.004	0.001	
5/15/2019 19:37			0.004	0	
5/15/2019 19:38			0.004	0	
5/15/2019 19:39			0.004	0	
5/15/2019 19:40	12.1	99.2	0.004	0	42.43093;-76.49815
5/15/2019 19:41			0.004	0	
5/15/2019 19:42			0.004	0.001	
5/15/2019 19:43			0.004	0	
5/15/2019 19:44			0.004	0	
5/15/2019 19:45	12.2	102.2	0.004	0.001	42.43075;-76.49809
5/15/2019 19:46			0.004	0.001	
5/15/2019 19:47			0.004	0	
5/15/2019 19:48			0.004	0.001	
5/15/2019 19:49			0.004	0.002	
5/15/2019 19:50	12.1	93.1	0.004	0.001	42.43081;-76.4981
5/15/2019 19:51			0.004	0.001	
5/15/2019 19:52			0.004	0	
5/15/2019 19:53			0.004	0	
5/15/2019 19:54			0.004	0	
5/15/2019 19:55	12.1	93.1	0.004	0	42.43079;-76.49809
5/15/2019 19:56			0.004	0	
5/15/2019 19:57			0.004	0	
5/15/2019 19:58			0.004	0	
5/15/2019 19:59			0.004	0	
5/15/2019 20:00	12.1	98.2	0.004	0	42.43071;-76.49806
5/15/2019 20:01			0.004	0	
5/15/2019 20:02			0.004	0.001	
5/15/2019 20:03			0.004	0.001	
5/15/2019 20:04			0.004	0.001	
5/15/2019 20:05	12.1	96.2	0.004	0	42.43078;-76.4981
5/15/2019 20:06			0.004	0	
5/15/2019 20:07			0.004	0.001	
5/15/2019 20:08			0.004	0	
5/15/2019 20:09			0.004	0.002	
5/15/2019 20:10	12.1	97.2	0.004	0	42.43079;-76.4981
5/15/2019 20:11			0.004	0.001	
5/15/2019 20:12			0.004	0.001	
5/15/2019 20:13			0.004	0	
5/15/2019 20:14			0.004	0	
5/15/2019 20:15	12.1	93.1	0.004	0	42.43086;-76.49815
5/15/2019 20:16			0.004	0	
5/15/2019 20:17			0.004	0.001	
5/15/2019 20:18			0.004	0.001	
5/15/2019 20:19			0.004	0.003	
5/15/2019 20:20	12.1	97.2	0.004	0.001	42.4309;-76.49804
5/15/2019 20:21			0.004	0.001	
5/15/2019 20:22			0.004	0.004	
5/15/2019 20:23			0.004	0.002	
5/15/2019 20:24			0.004	0.001	
5/15/2019 20:25	12.1	108.3	0.004	0.001	42.43088;-76.4981
5/15/2019 20:26			0.004	0.001	
5/15/2019 20:27			0.004	0.001	
5/15/2019 20:28			0.004	0	
5/15/2019 20:29			0.004	0.001	
5/15/2019 20:30	12.1	92.1	0.004	0.001	42.43085;-76.49812
5/15/2019 20:31			0.004	0.005	
5/15/2019 20:32			0.004	0.002	
5/15/2019 20:33			0.004	0.001	
5/15/2019 20:34			0.004	0.001	
5/15/2019 20:35	12.1	94.1	0.004	0.001	42.43083;-76.49806
5/15/2019 20:36			0.004	0.004	
5/15/2019 20:37			0.004	0.002	
5/15/2019 20:38			0.004	0.001	
5/15/2019 20:39			0.004	0.001	
5/15/2019 20:40	12.1	95.1	0.004	0.001	42.43084;-76.49809
5/15/2019 20:41			0.004	0.002	
5/15/2019 20:42			0.004	0.002	
5/15/2019 20:43			0.004	0.001	
5/15/2019 20:44			0.004	0.001	
5/15/2019 20:45	12.1	99.2	0.004	0.001	42.43088;-76.4981
5/15/2019 20:46			0.004	0.001	
5/15/2019 20:47			0.004	0.001	
5/15/2019 20:48			0.004	0.001	
5/15/2019 20:49			0.004	0.001	
5/15/2019 20:50	12.1	97.2	0.004	0.001	42.43089;-76.4981
5/15/2019 20:51			0.004	0.001	
5/15/2019 20:52			0.004	0.001	
5/15/2019 20:53			0.004	0.001	
5/16/2019 11:55	12.8	110.3			
5/16/2019 11:56					42.44163340000001;-76.4877267
5/16/2019 11:58			0	0.016	
5/16/2019 11:59			0	0.016	
5/16/2019 12:00	12.7	89.1	0	0.016	
5/16/2019 12:00					42.4316;-76.49744
5/16/2019 12:01			0	0.016	
5/16/2019 12:02			0	0.016	
5/16/2019 12:03			0	0.016	
5/16/2019 12:04			0	0.016	
5/16/2019 12:05	12.7	90.1	0	0.016	
5/16/2019 12:05					42.43157;-76.49746
5/16/2019 12:06			0	0.016	
5/16/2019 12:07			0	0.017	
5/16/2019 12:08			0	0.018	
5/16/2019 12:09			0	0.017	
5/16/2019 12:10	12.7	105.3	0	0.016	
5/16/2019 12:10					42.4316;-76.49751
5/16/2019 12:11			0	0.016	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/16/2019 12:12			0	0.015	
5/16/2019 12:13			0.001	0.016	
5/16/2019 12:14			0.001	0.015	
5/16/2019 12:15	12.7	92.1	0.001	0.015	
5/16/2019 12:15					42.4316;-76.49748
5/16/2019 12:16			0.001	0.016	
5/16/2019 12:17			0.001	0.016	
5/16/2019 12:18			0.001	0.016	
5/16/2019 12:19			0.001	0.015	
5/16/2019 12:20	12.7	89.1	0.001	0.015	
5/16/2019 12:20					42.43159;-76.49748
5/16/2019 12:21			0.001	0.015	
5/16/2019 12:22			0.001	0.014	
5/16/2019 12:23			0.001	0.014	
5/16/2019 12:24			0.001	0.014	
5/16/2019 12:25	12.7	89.1	0.001	0.014	
5/16/2019 12:25					42.43162;-76.49751
5/16/2019 12:26			0.001	0.013	
5/16/2019 12:27			0.001	0.012	
5/16/2019 12:28			0.001	0.013	
5/16/2019 12:29			0.001	0.012	
5/16/2019 12:30	12.7	98.2	0.001	0.011	
5/16/2019 12:30					42.43162;-76.49752
5/16/2019 12:31			0.001	0.011	
5/16/2019 12:32			0.001	0.011	
5/16/2019 12:33			0.001	0.011	
5/16/2019 12:34			0.001	0.011	
5/16/2019 12:35	12.7	89.1	0.001	0.011	
5/16/2019 12:35					42.43161;-76.49748
5/16/2019 12:36			0.001	0.01	
5/16/2019 12:37			0.001	0.01	
5/16/2019 12:38			0.001	0.01	
5/16/2019 12:39			0.001	0.01	
5/16/2019 12:40	12.7	98.2	0.001	0.01	
5/16/2019 12:40					42.43163;-76.49751
5/16/2019 12:41			0.001	0.011	
5/16/2019 12:42			0.001	0.01	
5/16/2019 12:43			0.001	0.011	
5/16/2019 12:44			0.001	0.01	
5/16/2019 12:45	12.7	89.1	0.001	0.01	
5/16/2019 12:45					42.43162;-76.49748
5/16/2019 12:46			0.001	0.01	
5/16/2019 12:47			0.001	0.011	
5/16/2019 12:48			0.001	0.012	
5/16/2019 12:49			0.001	0.012	
5/16/2019 12:50	12.7	95.1	0.001	0.012	
5/16/2019 12:50					42.43162;-76.49751
5/16/2019 12:51			0.001	0.011	
5/16/2019 12:52			0.002	0.011	
5/16/2019 12:53			0.002	0.011	
5/16/2019 12:54			0.002	0.012	
5/16/2019 12:55	12.7	89.1	0.002	0.012	
5/16/2019 12:55					42.43159;-76.49752
5/16/2019 12:56			0.002	0.011	
5/16/2019 12:57			0.002	0.012	
5/16/2019 12:58			0.002	0.011	
5/16/2019 12:59			0.002	0.012	
5/16/2019 13:00	12.6	91.1	0.002	0.013	
5/16/2019 13:00					42.43161;-76.49752
5/16/2019 13:01			0.002	0.012	
5/16/2019 13:02			0.002	0.012	
5/16/2019 13:03			0.002	0.012	
5/16/2019 13:04			0.002	0.012	
5/16/2019 13:05	12.6	98.2	0.002	0.013	
5/16/2019 13:05					42.43158;-76.49751
5/16/2019 13:06			0.002	0.013	
5/16/2019 13:07			0.002	0.013	
5/16/2019 13:08			0.002	0.013	
5/16/2019 13:09			0.002	0.013	
5/16/2019 13:10	12.6	96.2	0.002	0.014	
5/16/2019 13:10					42.43156;-76.49752
5/16/2019 13:11			0.002	0.014	
5/16/2019 13:12			0.002	0.014	
5/16/2019 13:13			0.002	0.014	
5/16/2019 13:14			0.002	0.014	
5/16/2019 13:15	12.6	97.2	0.002	0.014	
5/16/2019 13:15					42.43157;-76.49752
5/16/2019 13:16			0.002	0.014	
5/16/2019 13:17			0.002	0.015	
5/16/2019 13:18			0.002	0.015	
5/16/2019 13:19			0.002	0.015	
5/16/2019 13:20	12.6	93.1	0.002	0.015	
5/16/2019 13:20					42.43164;-76.49751
5/16/2019 13:21			0.002	0.015	
5/16/2019 13:22			0.002	0.015	
5/16/2019 13:23			0.002	0.015	
5/16/2019 13:24			0.002	0.017	
5/16/2019 13:25	12.6	106.3	0.002	0.018	
5/16/2019 13:25					42.43158;-76.49746
5/16/2019 13:26			0.002	0.018	
5/16/2019 13:27			0.003	0.016	
5/16/2019 13:28			0.003	0.016	
5/16/2019 13:29			0.003	0.017	
5/16/2019 13:30	12.6	89.1	0.003	0.019	
5/16/2019 13:30					42.43157;-76.49748
5/16/2019 13:31			0.003	0.017	
5/16/2019 13:32			0.003	0.017	
5/16/2019 13:33			0.003	0.017	
5/16/2019 13:34			0.003	0.016	
5/16/2019 13:35	12.6	91.1	0.003	0.016	
5/16/2019 13:35					42.43158;-76.49752
5/16/2019 13:36			0.003	0.017	
5/16/2019 13:37			0.003	0.018	
5/16/2019 13:38			0.003	0.019	
5/16/2019 13:39			0.003	0.019	
5/16/2019 13:40	12.6	91.1	0.003	0.02	
5/16/2019 13:40					42.4315;-76.49751
5/16/2019 13:41			0.003	0.02	
5/16/2019 13:42			0.003	0.021	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/16/2019 13:43			0.003	0.021	
5/16/2019 13:44			0.003	0.021	
5/16/2019 13:45	12.6	104.3	0.003	0.02	
5/16/2019 13:45					42.43158;-76.49752
5/16/2019 13:46			0.003	0.02	
5/16/2019 13:47			0.003	0.02	
5/16/2019 13:48			0.003	0.021	
5/16/2019 13:49			0.003	0.022	
5/16/2019 13:50	12.6	93.1	0.003	0.021	
5/16/2019 13:50					42.43158;-76.49752
5/16/2019 13:51			0.003	0.02	
5/16/2019 13:52			0.003	0.02	
5/16/2019 13:53			0.004	0.02	
5/16/2019 13:54			0.004	0.021	
5/16/2019 13:55	12.6	99.2	0.004	0.02	
5/16/2019 13:55					42.4316;-76.49744
5/16/2019 13:56			0.004	0.02	
5/16/2019 13:57			0.004	0.02	
5/16/2019 13:58			0.004	0.02	
5/16/2019 13:59			0.004	0.02	
5/16/2019 14:00	12.6	95.1	0.004	0.02	
5/16/2019 14:00					42.43154;-76.49752
5/16/2019 14:01			0.004	0.02	
5/16/2019 14:02			0.004	0.02	
5/16/2019 14:03			0.004	0.021	
5/16/2019 14:04			0.004	0.021	
5/16/2019 14:05	12.6	104.3	0.004	0.02	
5/16/2019 14:05					42.43155;-76.49754
5/16/2019 14:06			0.004	0.02	
5/16/2019 14:07			0.004	0.019	
5/16/2019 14:08			0.004	0.02	
5/16/2019 14:09			0.004	0.02	
5/16/2019 14:10	12.6	89.1	0.004	0.02	
5/16/2019 14:10					42.43154;-76.49752
5/16/2019 14:11			0.004	0.02	
5/16/2019 14:12			0.004	0.019	
5/16/2019 14:13			0.004	0.019	
5/16/2019 14:14			0.004	0.019	
5/16/2019 14:15	12.6	96.2	0.004	0.02	
5/16/2019 14:15					42.43154;-76.49754
5/16/2019 14:16			0.004	0.02	
5/16/2019 14:17			0.005	0.02	
5/16/2019 14:18			0.005	0.02	
5/16/2019 14:19			0.005	0.02	
5/16/2019 14:20	12.6	90.1	0.005	0.021	
5/16/2019 14:20					42.43155;-76.49751
5/16/2019 14:21			0.005	0.021	
5/16/2019 14:22			0.005	0.021	
5/16/2019 14:23			0.005	0.02	
5/16/2019 14:24			0.005	0.02	
5/16/2019 14:25	12.6	92.1	0.005	0.021	
5/16/2019 14:25					42.43157;-76.49752
5/16/2019 14:26			0.005	0.021	
5/16/2019 14:27			0.005	0.02	
5/16/2019 14:28			0.005	0.021	
5/16/2019 14:29			0.005	0.021	
5/16/2019 14:30	12.6	90.1	0.005	0.021	
5/16/2019 14:30					42.43157;-76.49752
5/16/2019 14:31			0.005	0.021	
5/16/2019 14:32			0.005	0.021	
5/16/2019 14:33			0.005	0.021	
5/16/2019 14:34			0.005	0.02	
5/16/2019 14:35	12.6	94.1	0.005	0.02	
5/16/2019 14:35					42.43166;-76.49744
5/16/2019 14:36			0.005	0.02	
5/16/2019 14:37			0.005	0.02	
5/16/2019 14:38			0.005	0.02	
5/16/2019 14:39			0.005	0.02	
5/16/2019 14:40	12.6	89.1	0.006	0.02	
5/16/2019 14:40					42.43162;-76.49752
5/16/2019 14:41			0.006	0.02	
5/16/2019 14:42			0.006	0.02	
5/16/2019 14:43			0.006	0.02	
5/16/2019 14:44			0.006	0.02	
5/16/2019 14:45	12.6	90.1	0.006	0.02	
5/16/2019 14:45					42.43159;-76.49752
5/16/2019 14:46			0.006	0.02	
5/16/2019 14:47			0.006	0.02	
5/16/2019 14:48			0.006	0.02	
5/16/2019 14:49			0.006	0.019	
5/16/2019 14:50	12.6	91.1	0.006	0.024	
5/16/2019 14:50					42.43161;-76.49754
5/16/2019 14:51			0.006	0.021	
5/16/2019 14:52			0.006	0.021	
5/16/2019 14:53			0.006	0.021	
5/16/2019 14:54			0.006	0.021	
5/16/2019 14:55	12.6	90.1	0.006	0.021	
5/16/2019 14:55					42.4316;-76.49754
5/16/2019 14:56			0.006	0.021	
5/16/2019 14:57			0.006	0.02	
5/16/2019 14:58			0.006	0.02	
5/16/2019 14:59			0.006	0.02	
5/16/2019 15:00	12.6	92.1	0.006	0.021	
5/16/2019 15:00					42.43157;-76.49752
5/16/2019 15:01			0.006	0.021	
5/16/2019 15:02			0.006	0.022	
5/16/2019 15:03			0.007	0.022	
5/16/2019 15:04			0.007	0.021	
5/16/2019 15:05	12.6	91.1	0.007	0.021	
5/16/2019 15:05					42.43159;-76.49751
5/16/2019 15:06			0.007	0.021	
5/16/2019 15:07			0.007	0.021	
5/16/2019 15:08			0.007	0.02	
5/16/2019 15:09			0.007	0.021	
5/16/2019 15:10	12.6	89.1	0.007	0.021	
5/16/2019 15:10					42.4316;-76.49751
5/16/2019 15:11			0.007	0.02	
5/16/2019 15:12			0.007	0.02	
5/16/2019 15:13			0.007	0.02	

Appendix F

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/16/2019 15:14			0.007	0.02	
5/16/2019 15:15	12.6	91.1	0.007	0.021	
5/16/2019 15:15					42.43159;-76.49748
5/16/2019 15:16			0.007	0.021	
5/16/2019 15:17			0.007	0.021	
5/16/2019 15:18			0.007	0.02	
5/16/2019 15:19			0.007	0.02	
5/16/2019 15:20	12.6	91.1	0.007	0.02	
5/16/2019 15:20					42.4316;-76.49751
5/16/2019 15:21			0.007	0.019	
5/16/2019 15:22			0.007	0.023	
5/16/2019 15:23			0.007	0.02	
5/16/2019 15:24			0.007	0.019	
5/16/2019 15:25	12.6	98.2	0.007	0.019	
5/16/2019 15:25					42.43161;-76.49752
5/16/2019 15:26			0.007	0.02	
5/16/2019 15:27			0.008	0.02	
5/16/2019 15:28			0.008	0.019	
5/16/2019 15:29			0.008	0.019	
5/16/2019 15:30	12.6	90.1	0.008	0.02	
5/16/2019 15:30					42.43161;-76.49754
5/16/2019 15:31			0.008	0.02	
5/16/2019 15:32			0.008	0.02	
5/16/2019 15:33			0.008	0.02	
5/16/2019 15:34			0.008	0.02	
5/16/2019 15:35	12.6	93.1	0.008	0.02	
5/16/2019 15:35					42.43158;-76.49746
5/16/2019 15:36			0.008	0.02	
5/16/2019 15:37			0.008	0.02	
5/16/2019 15:38			0.008	0.02	
5/16/2019 15:39			0.008	0.02	
5/16/2019 15:40	12.6	97.2	0.008	0.02	
5/16/2019 15:40					42.43162;-76.49751
5/16/2019 15:41			0.008	0.02	
5/16/2019 15:42			0.008	0.02	
5/16/2019 15:43			0.008	0.02	
5/16/2019 15:44			0.008	0.02	
5/16/2019 15:45	12.6	94.1	0.008	0.019	
5/16/2019 15:45					42.43161;-76.49752
5/16/2019 15:46			0.008	0.02	
5/16/2019 15:47			0.008	0.02	
5/16/2019 15:48			0.008	0.019	
5/16/2019 15:49			0.008	0.019	
5/16/2019 15:50	12.6	92.1	0.008	0.019	
5/16/2019 15:50					42.43163;-76.49746
5/16/2019 15:51			0.009	0.019	
5/16/2019 15:52			0.009	0.019	
5/16/2019 15:53			0.009	0.02	
5/16/2019 15:54			0.009	0.02	
5/16/2019 15:55	12.6	101.2	0.009	0.02	
5/16/2019 15:55					42.43167;-76.49748
5/16/2019 15:56			0.009	0.038	
5/16/2019 15:57			0.009	0.021	
5/16/2019 15:58			0.009	0.02	
5/16/2019 15:59			0.009	0.02	
5/16/2019 16:00	12.6	89.1	0.009	0.019	
5/16/2019 16:00					42.43164;-76.49748
5/16/2019 16:01			0.009	0.02	
5/16/2019 16:02			0.009	0.019	
5/16/2019 16:03			0.009	0.019	
5/16/2019 16:04			0.009	0.019	
5/16/2019 16:05	12.6	93.1	0.009	0.02	
5/16/2019 16:05					42.43162;-76.49748
5/16/2019 16:06			0.009	0.019	
5/16/2019 16:07			0.009	0.019	
5/16/2019 16:08			0.009	0.02	
5/16/2019 16:09			0.009	0.02	
5/16/2019 16:10	12.5	93.1	0.009	0.02	
5/16/2019 16:10					42.4316;-76.49748
5/16/2019 16:11			0.009	0.02	
5/16/2019 16:12			0.009	0.02	
5/16/2019 16:13			0.009	0.019	
5/16/2019 16:14			0.009	0.02	
5/16/2019 16:15	12.5	89.1	0.01	0.02	
5/16/2019 16:15					42.43159;-76.49748
5/16/2019 16:16			0.01	0.02	
5/16/2019 16:17			0.01	0.019	
5/16/2019 16:18			0.01	0.019	
5/16/2019 16:19			0.01	0.02	
5/16/2019 16:20	12.5	101.2	0.01	0.019	
5/16/2019 16:20					42.4316;-76.49746
5/16/2019 16:21			0.01	0.02	
5/16/2019 16:22			0.01	0.02	
5/16/2019 16:23			0.01	0.02	
5/16/2019 16:24			0.01	0.02	
5/16/2019 16:25	12.5	92.1	0.01	0.019	
5/16/2019 16:25					42.43156;-76.49738
5/16/2019 16:26			0.01	0.019	
5/16/2019 16:27			0.01	0.019	
5/16/2019 16:28			0.01	0.019	
5/16/2019 16:29			0.01	0.02	
5/16/2019 16:30	12.5	90.1	0.01	0.019	
5/16/2019 16:30					42.43157;-76.49744
5/16/2019 16:31			0.01	0.019	
5/16/2019 16:32			0.01	0.019	
5/16/2019 16:33			0.01	0.019	
5/16/2019 16:34			0.01	0.019	
5/16/2019 16:35	12.5	95.1	0.01	0.018	
5/16/2019 16:35					42.43152;-76.49746
5/16/2019 16:36			0.01	0.019	
5/16/2019 16:37			0.01	0.02	
5/16/2019 16:38			0.01	0.019	
5/16/2019 16:39			0.01	0.019	
5/16/2019 16:40	12.5	91.1	0.011	0.019	
5/16/2019 16:40					42.43154;-76.49744
5/16/2019 16:41			0.011	0.019	
5/16/2019 16:42			0.011	0.018	
5/16/2019 16:43			0.011	0.017	
5/16/2019 16:44			0.011	0.017	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/16/2019 16:45	12.5	90.1	0.011	0.017	
5/16/2019 16:45					42.43154;-76.49744
5/16/2019 16:46			0.011	0.017	
5/16/2019 16:47			0.011	0.017	
5/16/2019 16:48			0.011	0.017	
5/16/2019 16:49			0.011	0.016	
5/16/2019 16:50	12.5	101.2	0.011	0.016	
5/16/2019 16:50					42.43155;-76.49744
5/16/2019 16:51			0.011	0.016	
5/16/2019 16:52			0.011	0.016	
5/16/2019 16:53			0.011	0.016	
5/16/2019 16:54			0.011	0.016	
5/16/2019 16:55	12.5	91.1	0.011	0.016	
5/16/2019 16:55					42.43154;-76.49744
5/16/2019 16:56			0.011	0.017	
5/16/2019 16:57			0.011	0.016	
5/16/2019 16:58			0.011	0.016	
5/16/2019 16:59			0.011	0.016	
5/16/2019 17:00	12.5	93.1	0.011	0.017	
5/16/2019 17:00					42.43155;-76.49744
5/16/2019 17:01			0.011	0.017	
5/16/2019 17:02			0.011	0.019	
5/16/2019 17:03			0.011	0.016	
5/16/2019 17:04			0.011	0.016	
5/16/2019 17:05	12.5	91.1	0.011	0.016	
5/16/2019 17:05					42.43153;-76.49741
5/16/2019 17:06			0.011	0.017	
5/16/2019 17:07			0.011	0.017	
5/16/2019 17:08			0.012	0.016	
5/16/2019 17:09			0.012	0.017	
5/16/2019 17:10	12.5	90.1	0.012	0.017	
5/16/2019 17:10					42.43152;-76.49744
5/16/2019 17:11			0.012	0.017	
5/16/2019 17:12			0.012	0.017	
5/16/2019 17:13			0.012	0.017	
5/16/2019 17:14			0.012	0.016	
5/16/2019 17:15	12.5	104.3	0.012	0.015	
5/16/2019 17:15					42.43157;-76.49748
5/16/2019 17:16			0.012	0.016	
5/16/2019 17:17			0.012	0.016	
5/16/2019 17:18			0.012	0.015	
5/16/2019 17:19			0.012	0.014	
5/16/2019 17:20	12.5	93.1	0.012	0.015	
5/16/2019 17:20					42.43153;-76.49746
5/16/2019 17:21			0.012	0.015	
5/16/2019 17:22			0.012	0.015	
5/16/2019 17:23			0.012	0.014	
5/16/2019 17:24			0.012	0.014	
5/16/2019 17:25	12.5	90.1	0.012	0.014	
5/16/2019 17:25					42.43154;-76.49744
5/16/2019 17:26			0.012	0.015	
5/16/2019 17:27			0.012	0.015	
5/16/2019 17:28			0.012	0.015	
5/16/2019 17:29			0.012	0.016	
5/16/2019 17:30	12.5	101.2	0.012	0.015	
5/16/2019 17:30					42.43156;-76.49746
5/16/2019 17:31			0.012	0.015	
5/16/2019 17:32			0.012	0.015	
5/16/2019 17:33			0.012	0.016	
5/16/2019 17:34			0.012	0.014	
5/16/2019 17:35	12.5	90.1	0.012	0.014	
5/16/2019 17:35					42.43154;-76.49746
5/16/2019 17:36			0.012	0.014	
5/16/2019 17:37			0.012	0.014	
5/16/2019 17:38			0.012	0.014	
5/16/2019 17:39			0.012	0.014	
5/16/2019 17:40	12.5	96.2	0.013	0.014	
5/16/2019 17:40					42.43155;-76.49746
5/16/2019 17:41			0.013	0.014	
5/16/2019 17:42			0.013	0.013	
5/16/2019 17:43			0.013	0.013	
5/16/2019 17:44			0.013	0.013	
5/16/2019 17:45	12.5	91.1	0.013	0.012	
5/16/2019 17:45					42.43154;-76.49744
5/16/2019 17:46			0.013	0.013	
5/16/2019 17:47			0.013	0.013	
5/16/2019 17:48			0.013	0.013	
5/16/2019 17:49			0.013	0.013	
5/16/2019 17:50	12.5	100.2	0.013	0.013	
5/16/2019 17:50					42.43155;-76.49748
5/16/2019 17:51			0.013	0.014	
5/16/2019 17:52			0.013	0.014	
5/16/2019 17:53			0.013	0.014	
5/16/2019 17:54			0.013	0.014	
5/16/2019 17:55	12.5	92.1	0.013	0.014	
5/16/2019 17:55					42.43155;-76.49744
5/16/2019 17:56			0.013	0.014	
5/16/2019 17:57			0.013	0.014	
5/16/2019 17:58			0.013	0.014	
5/16/2019 17:59			0.013	0.014	
5/16/2019 18:00	12.5	102.2	0.013	0.014	
5/16/2019 18:00					42.43155;-76.49746
5/16/2019 18:01			0.013	0.015	
5/16/2019 18:02			0.013	0.014	
5/16/2019 18:03			0.013	0.015	
5/16/2019 18:04			0.013	0.014	
5/16/2019 18:05	12.5	91.1	0.013	0.014	
5/16/2019 18:05					42.43155;-76.49746
5/16/2019 18:06			0.013	0.013	
5/16/2019 18:07			0.013	0.013	
5/16/2019 18:08			0.013	0.016	
5/16/2019 18:09			0.013	0.013	
5/16/2019 18:10	12.5	93.1	0.013	0.014	
5/16/2019 18:10					42.43161;-76.49746
5/16/2019 18:11			0.013	0.014	
5/16/2019 18:12			0.013	0.014	
5/16/2019 18:13			0.013	0.013	
5/16/2019 18:14			0.013	0.013	
5/16/2019 18:15	12.4	94.1	0.014	0.013	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/16/2019 18:15					42.43159;-76.49746
5/16/2019 18:16			0.014	0.014	
5/16/2019 18:17			0.014	0.014	
5/16/2019 18:18			0.014	0.014	
5/16/2019 18:19			0.014	0.014	
5/16/2019 18:20	12.5	97.2	0.014	0.014	
5/16/2019 18:20					42.4316;-76.49746
5/16/2019 18:21			0.014	0.014	
5/16/2019 18:22			0.014	0.014	
5/16/2019 18:23			0.014	0.014	
5/16/2019 18:24			0.014	0.014	
5/16/2019 18:25	12.4	100.2	0.014	0.014	
5/16/2019 18:25					42.4316;-76.49748
5/16/2019 18:26			0.014	0.014	
5/16/2019 18:27			0.014	0.014	
5/16/2019 18:28			0.014	0.014	
5/16/2019 18:29			0.014	0.014	
5/16/2019 18:30	12.4	113.4	0.014	0.014	
5/16/2019 18:30					42.43155;-76.49744
5/16/2019 18:31			0.014	0.014	
5/16/2019 18:32			0.014	0.016	
5/16/2019 18:33			0.014	0.015	
5/16/2019 18:34			0.014	0.015	
5/16/2019 18:35	12.4	90.1	0.014	0.015	
5/16/2019 18:35					42.43161;-76.49751
5/16/2019 18:36			0.014	0.015	
5/16/2019 18:37			0.014	0.015	
5/16/2019 18:38			0.014	0.016	
5/16/2019 18:39			0.014	0.015	
5/16/2019 18:40	12.4	96.2	0.014	0.015	
5/16/2019 18:40					42.43161;-76.49751
5/16/2019 18:41			0.014	0.016	
5/16/2019 18:42			0.014	0.015	
5/16/2019 18:43			0.014	0.015	
5/16/2019 18:44			0.014	0.015	
5/16/2019 18:45	12.4	90.1	0.014	0.016	
5/16/2019 18:45					42.4316;-76.49751
5/16/2019 18:46			0.014	0.016	
5/16/2019 18:47			0.014	0.016	
5/16/2019 18:48			0.015	0.016	
5/16/2019 18:49			0.015	0.015	
5/16/2019 18:50	12.4	91.1	0.015	0.015	
5/16/2019 18:50					42.43161;-76.49746
5/16/2019 18:51			0.015	0.016	
5/16/2019 18:52			0.015	0.015	
5/16/2019 18:53			0.015	0.015	
5/16/2019 18:54			0.015	0.016	
5/16/2019 18:55	12.4	92.1	0.015	0.016	
5/16/2019 18:55					42.4316;-76.49746
5/16/2019 18:56			0.015	0.016	
5/16/2019 18:57			0.015	0.016	
5/16/2019 18:58			0.015	0.016	
5/16/2019 18:59			0.015	0.016	
5/16/2019 19:00	12.4	93.1	0.015	0.016	
5/16/2019 19:00					42.43158;-76.49746
5/16/2019 19:01			0.015	0.016	
5/16/2019 19:02			0.015	0.016	
5/16/2019 19:03			0.015	0.016	
5/16/2019 19:04			0.015	0.016	
5/16/2019 19:05	12.4	91.1	0.015	0.016	
5/16/2019 19:05					42.43161;-76.49746
5/16/2019 19:06			0.015	0.016	
5/16/2019 19:07			0.015	0.017	
5/16/2019 19:08			0.015	0.017	
5/16/2019 19:09			0.015	0.017	
5/16/2019 19:10	12.4	98.2	0.015	0.017	
5/16/2019 19:10					42.43159;-76.49744
5/16/2019 19:11			0.015	0.017	
5/16/2019 19:12			0.015	0.017	
5/16/2019 19:13			0.015	0.017	
5/16/2019 19:14			0.015	0.017	
5/16/2019 19:15	12.4	102.2	0.015	0.017	
5/16/2019 19:15					42.43164;-76.49744
5/16/2019 19:16			0.015	0.017	
5/16/2019 19:17			0.016	0.017	
5/16/2019 19:18			0.016	0.017	
5/16/2019 19:19			0.016	0.017	
5/16/2019 19:20	12.4	91.1	0.016	0.017	
5/16/2019 19:20					42.43163;-76.49746
5/16/2019 19:21			0.016	0.017	
5/16/2019 19:22			0.016	0.017	
5/16/2019 19:23			0.016	0.017	
5/16/2019 19:24			0.016	0.017	
5/16/2019 19:25	12.4	106.3	0.016	0.017	
5/16/2019 19:25					42.43162;-76.49744
5/16/2019 19:26			0.016	0.017	
5/16/2019 19:27			0.016	0.018	
5/16/2019 19:28			0.016	0.018	
5/16/2019 19:29			0.016	0.018	
5/16/2019 19:30	12.4	97.2	0.016	0.018	
5/16/2019 19:30					42.43161;-76.49744
5/16/2019 19:31			0.016	0.018	
5/16/2019 19:32			0.016	0.018	
5/16/2019 19:33			0.016	0.018	
5/16/2019 19:34			0.016	0.018	
5/16/2019 19:35	12.4	92.1	0.016	0.018	
5/16/2019 19:35					42.43161;-76.49748
5/16/2019 19:36			0.016	0.018	
5/16/2019 19:37			0.016	0.018	
5/16/2019 19:38			0.016	0.018	
5/16/2019 19:39			0.016	0.018	
5/16/2019 19:40	12.4	92.1	0.016	0.018	
5/16/2019 19:40					42.43159;-76.49748
5/16/2019 19:41			0.016	0.018	
5/16/2019 19:42			0.016	0.018	
5/16/2019 19:43			0.016	0.018	
5/16/2019 19:44			0.017	0.018	
5/16/2019 19:45	12.4	94.1	0.017	0.018	42.43158;-76.49748
5/16/2019 19:46			0.017	0.018	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/16/2019 19:47			0.017	0.018	
5/16/2019 19:48			0.017	0.018	
5/16/2019 19:49			0.017	0.018	
5/16/2019 19:50	12.4	101.2	0.017	0.018	42.43155;-76.49741
5/16/2019 19:51			0.017	0.018	
5/16/2019 19:52			0.017	0.019	
5/16/2019 19:53			0.017	0.019	
5/16/2019 19:54			0.017	0.018	
5/16/2019 19:55	12.3	92.1	0.017	0.018	42.43157;-76.49744
5/16/2019 19:56			0.017	0.018	
5/16/2019 19:57			0.017	0.019	
5/16/2019 19:58			0.017	0.019	
5/16/2019 19:59			0.017	0.019	
5/16/2019 20:00	12.3	93.1	0.017	0.019	42.43161;-76.49746
5/16/2019 20:01			0.017	0.019	
5/16/2019 20:02			0.017	0.019	
5/16/2019 20:03			0.017	0.019	
5/16/2019 20:04			0.017	0.018	
5/16/2019 20:05	12.3	102.2	0.017	0.018	42.4316;-76.49748
5/16/2019 20:06			0.017	0.018	
5/16/2019 20:07			0.017	0.019	
5/16/2019 20:08			0.017	0.018	
5/16/2019 20:09			0.017	0.018	
5/16/2019 20:10	12.3	92.1	0.017	0.018	42.43164;-76.49744
5/16/2019 20:11			0.017	0.018	
5/16/2019 20:12			0.017	0.018	
5/16/2019 20:13			0.017	0.018	
5/16/2019 20:14			0.017	0.018	
5/16/2019 20:15	12.3	93.1	0.017	0.018	42.43162;-76.49741
5/16/2019 20:16			0.017	0.018	
5/16/2019 20:17			0.017	0.018	
5/16/2019 20:18			0.017	0.018	
5/16/2019 20:19			0.017	0.018	
5/16/2019 20:20	12.3	102.2	0.017	0.018	42.43156;-76.49744
5/16/2019 20:21			0.017	0.018	
5/16/2019 20:22			0.017	0.018	
5/16/2019 20:23			0.017	0.021	
5/22/2019 14:56	12.7	130.6			
5/22/2019 14:58			0		
5/22/2019 14:59			0	-0.007	
5/22/2019 15:00	12.6	96.2	0	-0.011	
5/22/2019 15:00					42.43005;-76.50102
5/22/2019 15:01			0	-0.011	
5/22/2019 15:02			0	-0.011	
5/22/2019 15:03			0	-0.011	
5/22/2019 15:04			0	-0.012	
5/22/2019 15:05	12.6	100.2	0	-0.011	
5/22/2019 15:05					42.42997;-76.50098
5/22/2019 15:06			0	-0.012	
5/22/2019 15:07			0	-0.012	
5/22/2019 15:08			0	-0.012	
5/22/2019 15:09			0	-0.012	
5/22/2019 15:10	12.6	99.2	0	-0.012	
5/22/2019 15:10					42.42996;-76.50098
5/22/2019 15:11			0	-0.012	
5/22/2019 15:12			0	-0.012	
5/22/2019 15:13			0	-0.012	
5/22/2019 15:14			0	-0.011	
5/22/2019 15:15	12.6	94.1	0	-0.012	
5/22/2019 15:15					42.42998;-76.50095
5/22/2019 15:16			0	-0.012	
5/22/2019 15:17			0	-0.012	
5/22/2019 15:18			0	-0.013	
5/22/2019 15:19			0	-0.012	
5/22/2019 15:20	12.6	104.3	0	-0.012	
5/22/2019 15:20					42.42999;-76.50095
5/22/2019 15:21			0.001	-0.012	
5/22/2019 15:22			0.001	-0.012	
5/22/2019 15:23			0.001	-0.013	
5/22/2019 15:24			0.001	-0.013	
5/22/2019 15:25	12.6	92.1	0.001	-0.012	
5/22/2019 15:25					42.42997;-76.50081
5/22/2019 15:26			0.001	-0.011	
5/22/2019 15:27			0.001	-0.012	
5/22/2019 15:28			0.001	-0.013	
5/22/2019 15:29			0.001	-0.013	
5/22/2019 15:30	12.6	108.3	0.001	-0.013	
5/22/2019 15:30					42.43007;-76.50098
5/22/2019 15:31			0.001	-0.012	
5/22/2019 15:32			0.001	-0.013	
5/22/2019 15:33			0.001	-0.012	
5/22/2019 15:34			0.001	-0.013	
5/22/2019 15:35	12.6	91.1	0.001	-0.013	
5/22/2019 15:35					42.43001;-76.50095
5/22/2019 15:36			0.001	-0.013	
5/22/2019 15:37			0.001	-0.013	
5/22/2019 15:38			0.001	-0.013	
5/22/2019 15:39			0.001	-0.013	
5/22/2019 15:40	12.6	88.1	0.001	-0.013	
5/22/2019 15:40					42.43;-76.50098
5/22/2019 15:41			0.001	-0.013	
5/22/2019 15:42			0.001	-0.013	
5/22/2019 15:43			0.001	-0.013	
5/22/2019 15:44			0.001	-0.013	
5/22/2019 15:45	12.6	91.1	0.001	-0.012	
5/22/2019 15:45					42.43002;-76.50098
5/22/2019 15:46			0.001	-0.012	
5/22/2019 15:47			0.001	-0.012	
5/22/2019 15:48			0.001	-0.013	
5/22/2019 15:49			0.001	-0.013	
5/22/2019 15:50	12.6	90.1	0.001	-0.007	
5/22/2019 15:50					42.43031;-76.50108
5/22/2019 15:51			0.001	-0.013	
5/22/2019 15:52			0.001	-0.013	
5/22/2019 15:53			0.001	-0.012	
5/22/2019 15:54			0.001	-0.012	
5/22/2019 15:55	12.6	95.1	0.001	-0.013	
5/22/2019 15:55					42.42998;-76.50105
5/22/2019 15:56			0.001	-0.012	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/22/2019 15:57			0.001	-0.012	
5/22/2019 15:58			0.001	-0.012	
5/22/2019 15:59			0.001	-0.012	
5/22/2019 16:00	12.6	96.2	0.001	-0.012	
5/22/2019 16:00					42.43015;-76.501
5/22/2019 16:01			0.001	-0.012	
5/22/2019 16:02			0.001	-0.012	
5/22/2019 16:03			0.001	-0.012	
5/22/2019 16:04			0.002	-0.012	
5/22/2019 16:05	12.6	90.1	0.002	-0.012	
5/22/2019 16:05					42.43008;-76.501
5/22/2019 16:06			0.002	-0.012	
5/22/2019 16:07			0.002	-0.012	
5/22/2019 16:08			0.002	-0.011	
5/22/2019 16:09			0.002	-0.009	
5/22/2019 16:10	12.6	88.1	0.002	-0.012	
5/22/2019 16:10					42.43004;-76.501
5/22/2019 16:11			0.002	-0.012	
5/22/2019 16:12			0.002	-0.012	
5/22/2019 16:13			0.002	-0.011	
5/22/2019 16:14			0.002	-0.01	
5/22/2019 16:15	12.6	90.1	0.002	-0.011	
5/22/2019 16:15					42.42996;-76.50094
5/22/2019 16:16			0.002	-0.012	
5/22/2019 16:17			0.002	-0.012	
5/22/2019 16:18			0.002	-0.012	
5/22/2019 16:19			0.002	-0.012	
5/22/2019 16:20	12.6	95.1	0.002	-0.012	
5/22/2019 16:20					42.43001;-76.50095
5/22/2019 16:21			0.002	-0.009	
5/22/2019 16:22			0.002	-0.012	
5/22/2019 16:23			0.002	-0.012	
5/22/2019 16:24			0.002	-0.012	
5/22/2019 16:25	12.6	98.2	0.002	-0.012	
5/22/2019 16:25					42.42998;-76.50102
5/22/2019 16:26			0.002	-0.012	
5/22/2019 16:27			0.002	-0.011	
5/22/2019 16:28			0.002	-0.011	
5/22/2019 16:29			0.002	-0.011	
5/22/2019 16:30	12.6	93.1	0.002	-0.012	
5/22/2019 16:30					42.42989;-76.50111
5/22/2019 16:31			0.002	-0.012	
5/22/2019 16:32			0.002	-0.011	
5/22/2019 16:33			0.002	-0.011	
5/22/2019 16:34			0.002	-0.012	
5/22/2019 16:35	12.6	96.2	0.002	-0.011	
5/22/2019 16:35					42.42993;-76.50092
5/22/2019 16:36			0.002	-0.011	
5/22/2019 16:37			0.002	-0.011	
5/22/2019 16:38			0.002	-0.011	
5/22/2019 16:39			0.002	-0.011	
5/22/2019 16:40	12.6	94.1	0.002	-0.011	
5/22/2019 16:40					42.4299;-76.50102
5/22/2019 16:41			0.002	-0.011	
5/22/2019 16:42			0.002	-0.011	
5/22/2019 16:43			0.002	-0.011	
5/22/2019 16:44			0.002	-0.011	
5/22/2019 16:45	12.6	103.2	0.002	-0.01	
5/22/2019 16:45					42.42998;-76.50102
5/22/2019 16:46			0.002	-0.011	
5/22/2019 16:47			0.002	-0.011	
5/22/2019 16:48			0.002	-0.01	
5/22/2019 16:49			0.002	-0.011	
5/22/2019 16:50	12.6	99.2	0.002	-0.011	
5/22/2019 16:50					42.42997;-76.50094
5/22/2019 16:51			0.003	-0.011	
5/22/2019 16:52			0.003	-0.01	
5/22/2019 16:53			0.003	-0.01	
5/22/2019 16:54			0.003	-0.01	
5/22/2019 16:55	12.6	108.3	0.003	-0.01	
5/22/2019 16:55					42.4299;-76.50102
5/22/2019 16:56			0.003	-0.01	
5/22/2019 16:57			0.003	-0.01	
5/22/2019 16:58			0.003	-0.01	
5/22/2019 16:59			0.003	-0.01	
5/22/2019 17:00	12.6	90.1	0.003	-0.009	
5/22/2019 17:00					42.42997;-76.50092
5/22/2019 17:01			0.003	-0.01	
5/22/2019 17:02			0.003	-0.01	
5/22/2019 17:03			0.003	-0.01	
5/22/2019 17:04			0.003	-0.01	
5/22/2019 17:05	12.6	92.1	0.003	-0.01	
5/22/2019 17:05					42.42997;-76.50092
5/22/2019 17:06			0.003	-0.01	
5/22/2019 17:07			0.003	-0.009	
5/22/2019 17:08			0.003	-0.01	
5/22/2019 17:09			0.003	-0.009	
5/22/2019 17:10	12.6	91.1	0.003	-0.009	
5/22/2019 17:10					42.42997;-76.50092
5/22/2019 17:11			0.003	-0.009	
5/22/2019 17:12			0.003	-0.009	
5/22/2019 17:13			0.003	-0.009	
5/22/2019 17:14			0.003	-0.009	
5/22/2019 17:15	12.6	105.3	0.003	-0.009	
5/22/2019 17:15					42.42998;-76.50092
5/22/2019 17:16			0.003	-0.009	
5/22/2019 17:17			0.003	-0.009	
5/22/2019 17:18			0.003	-0.009	
5/22/2019 17:19			0.003	-0.008	
5/22/2019 17:20	12.6	90.1	0.003	-0.009	
5/22/2019 17:20					42.42996;-76.50095
5/22/2019 17:21			0.003	-0.008	
5/22/2019 17:22			0.003	-0.008	
5/22/2019 17:23			0.003	-0.008	
5/22/2019 17:24			0.003	-0.008	
5/22/2019 17:25	12.6	90.1	0.003	-0.008	
5/22/2019 17:25					42.42999;-76.501
5/22/2019 17:26			0.003	-0.008	
5/22/2019 17:27			0.003	-0.008	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/22/2019 17:28			0.003	-0.008	
5/22/2019 17:29			0.003	-0.008	
5/22/2019 17:30	12.6	95.1	0.003	-0.008	
5/22/2019 17:30					42.42998;-76.50102
5/22/2019 17:31			0.003	-0.008	
5/22/2019 17:32			0.003	-0.007	
5/22/2019 17:33			0.003	-0.008	
5/22/2019 17:34			0.003	-0.008	
5/22/2019 17:35	12.6	108.3	0.003	-0.008	
5/22/2019 17:35					42.43002;-76.50098
5/22/2019 17:36			0.003	-0.007	
5/22/2019 17:37			0.003	-0.007	
5/22/2019 17:38			0.003	-0.007	
5/22/2019 17:39			0.003	-0.007	
5/22/2019 17:40	12.6	97.2	0.003	-0.007	
5/22/2019 17:40					42.43002;-76.50102
5/22/2019 17:41			0.003	-0.007	
5/22/2019 17:42			0.003	-0.007	
5/22/2019 17:43			0.003	-0.007	
5/22/2019 17:44			0.003	-0.006	
5/22/2019 17:45	12.6	90.1	0.003	-0.007	
5/22/2019 17:45					42.42999;-76.50089
5/22/2019 17:46			0.003	-0.006	
5/22/2019 17:47			0.003	-0.006	
5/22/2019 17:48			0.003	-0.006	
5/22/2019 17:49			0.003	-0.006	
5/22/2019 17:50	12.6	95.1	0.003	-0.006	
5/22/2019 17:50					42.42994;-76.50092
5/22/2019 17:51			0.003	-0.006	
5/22/2019 17:52			0.003	-0.006	
5/22/2019 17:53			0.003	-0.006	
5/22/2019 17:54			0.003	-0.006	
5/22/2019 17:55	12.6	91.1	0.003	-0.006	
5/22/2019 17:55					42.43004;-76.50095
5/22/2019 17:56			0.003	-0.006	
5/22/2019 17:57			0.004	-0.006	
5/22/2019 17:58			0.004	-0.006	
5/22/2019 17:59			0.004	-0.004	
5/22/2019 18:00	12.6	91.1	0.004	-0.005	
5/22/2019 18:00					42.42999;-76.50094
5/22/2019 18:01			0.004	-0.005	
5/22/2019 18:02			0.004	-0.006	
5/22/2019 18:03			0.004	-0.005	
5/22/2019 18:04			0.004	-0.006	
5/22/2019 18:05	12.6	91.1	0.004	-0.006	
5/22/2019 18:05					42.43009;-76.501
5/22/2019 18:06			0.004	-0.005	
5/22/2019 18:07			0.004	-0.006	
5/22/2019 18:08			0.004	-0.005	
5/22/2019 18:09			0.004	-0.005	
5/22/2019 18:10	12.6	92.1	0.004	-0.005	
5/22/2019 18:10					42.43008;-76.501
5/22/2019 18:11			0.004	-0.005	
5/22/2019 18:12			0.004	-0.005	
5/22/2019 18:13			0.004	-0.005	
5/22/2019 18:14			0.004	-0.005	
5/22/2019 18:15	12.6	91.1	0.004	-0.004	
5/22/2019 18:15					42.43009;-76.50108
5/22/2019 18:16			0.004	-0.005	
5/22/2019 18:17			0.004	-0.004	
5/22/2019 18:18			0.004	-0.003	
5/22/2019 18:19			0.004	-0.003	
5/22/2019 18:20	12.5	134.6	0.004	-0.003	
5/22/2019 18:20					42.43007;-76.50102
5/22/2019 18:21			0.004	-0.003	
5/22/2019 18:22			0.004	-0.004	
5/22/2019 18:23			0.004	-0.003	
5/22/2019 18:24			0.004	-0.004	
5/22/2019 18:25	12.6	95.1	0.004	-0.003	
5/22/2019 18:25					42.43005;-76.50098
5/22/2019 18:26			0.004	-0.003	
5/22/2019 18:27			0.004	-0.004	
5/22/2019 18:28			0.004	-0.003	
5/22/2019 18:29			0.004	-0.002	
5/22/2019 18:30	12.6	90.1	0.004	-0.004	
5/22/2019 18:30					42.43004;-76.50095
5/22/2019 18:31			0.004	-0.004	
5/22/2019 18:32			0.004	-0.003	
5/22/2019 18:33			0.004	-0.003	
5/22/2019 18:34			0.004	-0.003	
5/22/2019 18:35	12.6	92.1	0.004	-0.003	
5/22/2019 18:35					42.4301;-76.50095
5/22/2019 18:36			0.004	-0.003	
5/22/2019 18:37			0.004	-0.003	
5/22/2019 18:38			0.004	-0.003	
5/22/2019 18:39			0.004	-0.003	
5/22/2019 18:40	12.6	105.3	0.004	-0.003	
5/22/2019 18:40					42.43014;-76.50106
5/22/2019 18:41			0.004	-0.003	
5/22/2019 18:42			0.004	-0.003	
5/22/2019 18:43			0.004	-0.002	
5/22/2019 18:44			0.004	-0.002	
5/22/2019 18:45	12.5	93.1	0.004	-0.002	
5/22/2019 18:45					42.43007;-76.50098
5/22/2019 18:46			0.004	-0.002	
5/22/2019 18:47			0.004	-0.001	
5/22/2019 18:48			0.004	-0.001	
5/22/2019 18:49			0.004	-0.001	
5/22/2019 18:50	12.5	130.6	0.004	-0.002	
5/22/2019 18:50					42.43015;-76.50105
5/22/2019 18:51			0.004	-0.002	
5/22/2019 18:52			0.004	-0.002	
5/22/2019 18:53			0.004	-0.002	
5/22/2019 18:54			0.004	-0.001	
5/22/2019 18:55	12.5	96.2	0.004	-0.002	
5/22/2019 18:55					42.43002;-76.50095
5/22/2019 18:56			0.004	-0.002	
5/22/2019 18:57			0.004	-0.002	
5/22/2019 18:58			0.004	-0.002	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/22/2019 18:59			0.004	-0.002	
5/22/2019 19:00	12.5	102.2	0.004	-0.002	
5/22/2019 19:00					42.42999;-76.50094
5/22/2019 19:01			0.004	-0.002	
5/22/2019 19:02			0.004	-0.002	
5/22/2019 19:03			0.004	-0.002	
5/22/2019 19:04			0.004	-0.002	
5/22/2019 19:05	12.5	90.1	0.004	-0.002	
5/22/2019 19:05					42.42998;-76.50102
5/22/2019 19:06			0.004	-0.002	
5/22/2019 19:07			0.004	-0.002	
5/22/2019 19:08			0.004	-0.001	
5/22/2019 19:09			0.004	-0.002	
5/22/2019 19:10	12.5	94.1	0.004	-0.002	
5/22/2019 19:10					42.42995;-76.50074
5/22/2019 19:11			0.004	-0.001	
5/22/2019 19:12			0.004	-0.001	
5/22/2019 19:13			0.004	-0.001	
5/22/2019 19:14			0.004	-0.001	
5/22/2019 19:15	12.5	98.2	0.004	-0.001	
5/22/2019 19:15					42.43008;-76.50106
5/22/2019 19:16			0.004	0	
5/22/2019 19:17			0.004	-0.001	
5/22/2019 19:18			0.004	-0.001	
5/22/2019 19:19			0.004	-0.001	
5/22/2019 19:20	12.5	99.2	0.004	-0.001	
5/22/2019 19:20					42.42999;-76.50106
5/22/2019 19:21			0.004	0	
5/22/2019 19:22			0.004	0	
5/22/2019 19:23			0.004	0	
5/22/2019 19:24			0.004	0	
5/22/2019 19:25	12.5	91.1	0.004	0	
5/22/2019 19:25					42.4301;-76.50105
5/22/2019 19:26			0.004	0	
5/22/2019 19:27			0.004	0	
5/22/2019 19:28			0.004	0	
5/22/2019 19:29			0.004	0	
5/22/2019 19:30	12.5	91.1	0.004	0	
5/22/2019 19:30					42.43009;-76.50094
5/22/2019 19:31			0.004	0	
5/22/2019 19:32			0.004	0	
5/22/2019 19:33			0.004	0	
5/22/2019 19:34			0.004	0	
5/22/2019 19:35	12.5	91.1	0.004	0	
5/22/2019 19:35					42.4297;-76.50087
5/22/2019 19:36			0.004	0	
5/22/2019 19:37			0.004	0	
5/22/2019 19:38			0.004	0	
5/22/2019 19:39			0.004	0	
5/22/2019 19:40	12.5	90.1	0.004	0	
5/22/2019 19:40					42.42992;-76.50092
5/22/2019 19:41			0.004	0	
5/22/2019 19:42			0.004	0	
5/22/2019 19:43			0.004	0	
5/22/2019 19:44			0.004	0.001	
5/22/2019 19:45	12.5	102.2	0.004	0	
5/22/2019 19:45					42.43008;-76.50108
5/22/2019 19:46			0.004	0	
5/22/2019 19:47			0.004	0	
5/22/2019 19:48			0.004	0	
5/22/2019 19:49			0.004	0	
5/22/2019 19:50	12.5	106.3	0.004	0	
5/22/2019 19:50					42.43008;-76.50092
5/22/2019 19:51			0.004	0	
5/22/2019 19:52			0.004	0	
5/22/2019 19:53			0.004	0	
5/22/2019 19:54			0.004	0	
5/22/2019 19:55	12.5	97.2	0.004	0	
5/22/2019 19:55					42.43001;-76.50105
5/22/2019 19:56			0.004	0	
5/22/2019 19:57			0.004	0	
5/22/2019 19:58			0.004	0	
5/22/2019 19:59			0.004	0	
5/22/2019 20:00	12.5	103.2	0.004	0	
5/22/2019 20:00					42.42987;-76.50092
5/22/2019 20:01			0.004	0	
5/22/2019 20:02			0.004	0	
5/22/2019 20:03			0.004	0	
5/22/2019 20:04			0.004	0	
5/22/2019 20:05	12.5	91.1	0.004	0	
5/22/2019 20:05					42.42997;-76.50095
5/22/2019 20:06			0.004	0	
5/22/2019 20:07			0.004	0	
5/22/2019 20:08			0.004	0	
5/22/2019 20:09			0.004	0	
5/22/2019 20:10	12.5	92.1	0.004	0	
5/22/2019 20:10					42.43004;-76.50106
5/22/2019 20:11			0.004	0	
5/22/2019 20:12			0.004	0	
5/22/2019 20:13			0.004	0	
5/22/2019 20:14			0.004	0	
5/22/2019 20:15	12.5	103.2	0.004	0	
5/22/2019 20:15					42.43;-76.50098
5/22/2019 20:16			0.004	0	
5/22/2019 20:17			0.004	0	
5/22/2019 20:18			0.004	0	
5/22/2019 20:19			0.004	0	
5/22/2019 20:20	12.5	94.1	0.004	0	
5/22/2019 20:20					42.4299;-76.50098
5/22/2019 20:21			0.004	0	
5/22/2019 20:22			0.004	0.002	
5/22/2019 20:23			0.004	0.001	
5/22/2019 20:24			0.004	0	
5/22/2019 20:25	12.5	92.1	0.004	0	
5/22/2019 20:25					42.43006;-76.50089
5/22/2019 20:26			0.004	0	
5/22/2019 20:27			0.004	0	
5/22/2019 20:28			0.004	0.004	
5/22/2019 20:29			0.004	0.008	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/22/2019 20:30	12.5	105.3	0.004	0.003	
5/22/2019 20:30					42.43002;-76.50095
5/22/2019 20:31			0.004	0	
5/22/2019 20:32			0.004	0.001	
5/22/2019 20:33			0.004	0	
5/22/2019 20:34			0.004	0.003	
5/22/2019 20:35	12.5	90.1	0.004	0.002	
5/22/2019 20:35					42.43;-76.50095
5/22/2019 20:36			0.004	0.001	
5/22/2019 20:37			0.004	0	
5/22/2019 20:38			0.004	0.001	
5/22/2019 20:39			0.004	0	
5/22/2019 20:40	12.5	91.1	0.004	0	
5/22/2019 20:40					42.43002;-76.501
5/22/2019 20:41			0.004	0	
5/22/2019 20:42			0.004	0	
5/22/2019 20:43			0.004	0	
5/22/2019 20:44			0.004	0	
5/22/2019 20:45	12.4	108.3	0.004	0.002	
5/22/2019 20:45					42.4301;-76.50106
5/22/2019 20:46			0.004	0	
5/22/2019 20:47			0.004	0	
5/22/2019 20:48			0.004	0	
5/22/2019 20:49			0.004	0	
5/22/2019 20:50	12.4	91.1	0.004	0	42.4301;-76.50102
5/22/2019 20:51			0.004	0.001	
5/22/2019 20:52			0.004	0.001	
5/22/2019 20:53			0.004	0.023	
5/22/2019 20:54			0.004	0	
5/22/2019 20:55	12.4	91.1	0.004	0.001	42.43005;-76.501
5/22/2019 20:56			0.004	0.001	
5/22/2019 20:57			0.004	0.001	
5/22/2019 20:58			0.004	0.001	
5/22/2019 20:59			0.004	0	
5/22/2019 21:00	12.4	91.1	0.004	0	42.43009;-76.50102
5/22/2019 21:01			0.004	0	
5/22/2019 21:02			0.004	0	
5/22/2019 21:03			0.004	0	
5/22/2019 21:04			0.004	0.003	
5/22/2019 21:05	12.4	91.1	0.004	0.005	42.43001;-76.501
5/22/2019 21:06			0.004	0.002	
5/23/2019 12:11	13	109.3			
5/23/2019 12:15	12.9	92.1			
5/23/2019 12:15					42.43161;-76.49746
5/23/2019 12:20	12.9	87			
5/23/2019 12:20					42.43158;-76.49751
5/23/2019 12:25	12.9	89.1			
5/23/2019 12:25					42.4315;-76.49735
5/23/2019 12:30	12.9	84			
5/23/2019 12:30					42.43156;-76.49751
5/23/2019 12:35	12.9	103.2			
5/23/2019 12:35					42.43158;-76.49748
5/23/2019 12:40	12.9	90.1			
5/23/2019 12:40					42.43156;-76.49754
5/23/2019 12:45	12.9	116.4			42.43153;-76.49751
5/23/2019 12:50	12.9	93.1			42.43154;-76.49754
5/23/2019 12:55	12.9	99.2			42.43156;-76.49754
5/23/2019 13:00	12.9	91.1			
5/23/2019 13:00					42.4315;-76.49757
5/23/2019 13:05	12.9	90.1			42.4315;-76.49759
5/23/2019 13:10	12.9	96.2			42.4315;-76.49757
5/23/2019 13:15	12.9	96.2			42.43147;-76.49757
5/23/2019 13:20	12.9	88.1			42.4315;-76.49754
5/23/2019 13:25	12.9	92.1			42.43157;-76.49752
5/23/2019 13:30	12.9	91.1			
5/23/2019 13:30					42.43154;-76.49752
5/23/2019 13:35	12.9	84			
5/23/2019 13:35					42.43153;-76.49754
5/23/2019 13:40	12.9	96.2			
5/23/2019 13:40					42.43164;-76.49757
5/23/2019 13:45	12.9	95.1			
5/23/2019 13:45					42.43157;-76.49754
5/23/2019 13:50	12.9	100.2			42.43154;-76.49752
5/23/2019 13:55	12.9	86			42.4315;-76.49746
5/23/2019 14:00	12.9	84			42.43147;-76.49748
5/23/2019 14:05	12.9	86			42.43161;-76.49752
5/23/2019 14:10	12.9	91.1			42.43155;-76.49744
5/23/2019 14:15	12.9	100.2			
5/23/2019 14:15					42.43159;-76.49741
5/23/2019 14:20	12.9	84			
5/23/2019 14:20					42.43161;-76.49754
5/23/2019 14:25	12.9	87			
5/23/2019 14:25					42.43155;-76.49751
5/23/2019 14:30	12.9	86			
5/23/2019 14:30					42.43157;-76.49752
5/23/2019 14:35	12.9	87			42.43159;-76.49748
5/23/2019 14:40	12.9	118.4			
5/23/2019 14:40					42.43163;-76.49746
5/23/2019 14:45	12.9	94.1			
5/23/2019 14:45					42.43156;-76.49744
5/23/2019 14:50	12.9	89.1			
5/23/2019 14:50					42.43158;-76.49752
5/23/2019 14:55	12.9	87			
5/23/2019 14:55					42.43156;-76.49751
5/23/2019 15:00	12.9	95.1			42.43161;-76.49751
5/23/2019 15:05	12.9	95.1			42.43159;-76.49752
5/23/2019 15:10	12.9	87			42.43161;-76.49752
5/23/2019 15:15	12.9	88.1			
5/23/2019 15:15					42.43163;-76.49754
5/23/2019 15:20	12.9	88.1			42.43158;-76.49754
5/23/2019 15:25	12.9	97.2			42.43159;-76.49754
5/23/2019 15:30	12.9	101.2			42.43156;-76.49752
5/23/2019 15:35	12.9	94.1			42.43157;-76.49754
5/23/2019 15:40	12.9	91.1			42.43157;-76.49754
5/23/2019 15:45	12.9	98.2			
5/23/2019 15:45					42.43155;-76.49754
5/23/2019 15:50	12.9	89.1			
5/23/2019 15:50					42.43152;-76.49754
5/23/2019 15:55	12.9	89.1			

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/23/2019 15:55					42.4315;-76.49754
5/23/2019 16:00	12.9	87			42.43152;-76.49752
5/23/2019 16:05	12.9	97.2			42.43148;-76.49754
5/23/2019 16:10	12.9	88.1			
5/23/2019 16:10					42.4315;-76.49748
5/23/2019 16:15	12.9	87			
5/23/2019 16:15					42.43147;-76.49752
5/23/2019 16:20	12.9	89.1			
5/23/2019 16:20					42.4315;-76.49751
5/23/2019 16:25	12.9	102.2			
5/23/2019 16:25					42.43154;-76.49748
5/23/2019 16:30	12.9	85			42.4315;-76.49751
5/23/2019 16:35	12.9	98.2			42.43155;-76.49741
5/23/2019 16:40	12.9	97.2			42.43155;-76.49741
5/23/2019 16:43			0	0.013	
5/23/2019 16:44			0	0.014	
5/23/2019 16:45	12.7	95.1	0	0.014	42.43152;-76.49748
5/23/2019 16:46			0	0.014	
5/23/2019 16:47			0	0.014	
5/23/2019 16:48			0	0.014	
5/23/2019 16:49			0	0.014	
5/23/2019 16:50	12.7	93.1	0	0.014	42.4315;-76.49752
5/23/2019 16:51			0	0.014	
5/23/2019 16:52			0	0.014	
5/23/2019 16:53			0	0.017	
5/23/2019 16:54			0	0.014	
5/23/2019 16:55	12.7	100.2	0	0.014	42.4315;-76.49748
5/23/2019 16:56			0	0.015	
5/23/2019 16:57			0	0.015	
5/23/2019 16:58			0	0.015	
5/23/2019 16:59			0	0.015	
5/23/2019 17:00	12.7	90.1	0.001	0.015	42.43155;-76.49751
5/23/2019 17:01			0.001	0.016	
5/23/2019 17:02			0.001	0.015	
5/23/2019 17:03			0.001	0.015	
5/23/2019 17:04			0.001	0.015	
5/23/2019 17:05	12.7	90.1	0.001	0.015	42.43156;-76.49746
5/23/2019 17:06			0.001	0.017	
5/23/2019 17:07			0.001	0.016	
5/23/2019 17:08			0.001	0.016	
5/23/2019 17:09			0.001	0.016	
5/23/2019 17:10	12.7	88.1	0.001	0.015	42.43157;-76.49746
5/23/2019 17:11			0.001	0.015	
5/23/2019 17:12			0.001	0.016	
5/23/2019 17:13			0.001	0.015	
5/23/2019 17:14			0.001	0.015	
5/23/2019 17:15	12.7	98.2	0.001	0.015	42.43152;-76.49751
5/23/2019 17:16			0.001	0.015	
5/23/2019 17:17			0.001	0.015	
5/23/2019 17:18			0.001	0.015	
5/23/2019 17:19			0.001	0.016	
5/23/2019 17:20	12.7	100.2	0.001	0.017	42.43154;-76.49741
5/23/2019 17:21			0.001	0.016	
5/23/2019 17:22			0.001	0.016	
5/23/2019 17:23			0.001	0.016	
5/23/2019 17:24			0.001	0.016	
5/23/2019 17:25	12.7	89.1	0.001	0.016	42.4316;-76.49744
5/23/2019 17:26			0.001	0.016	
5/23/2019 17:27			0.001	0.016	
5/23/2019 17:28			0.001	0.016	
5/23/2019 17:29			0.001	0.016	
5/23/2019 17:30	12.7	89.1	0.002	0.016	42.43154;-76.49741
5/23/2019 17:31			0.002	0.016	
5/23/2019 17:32			0.002	0.016	
5/23/2019 17:33			0.002	0.016	
5/23/2019 17:34			0.002	0.017	
5/23/2019 17:35	12.7	89.1	0.002	0.017	42.43154;-76.49744
5/23/2019 17:36			0.002	0.017	
5/23/2019 17:37			0.002	0.017	
5/23/2019 17:38			0.002	0.017	
5/23/2019 17:39			0.002	0.017	
5/23/2019 17:40	12.7	106.3	0.002	0.017	42.43155;-76.49751
5/23/2019 17:41			0.002	0.017	
5/23/2019 17:42			0.002	0.018	
5/23/2019 17:43			0.002	0.018	
5/23/2019 17:44			0.002	0.018	
5/23/2019 17:45	12.7	88.1	0.002	0.018	42.43153;-76.49751
5/23/2019 17:46			0.002	0.019	
5/23/2019 17:47			0.002	0.018	
5/23/2019 17:48			0.002	0.019	
5/23/2019 17:49			0.002	0.019	
5/23/2019 17:50	12.6	96.2	0.002	0.018	42.4316;-76.49751
5/23/2019 17:51			0.002	0.018	
5/23/2019 17:52			0.002	0.017	
5/23/2019 17:53			0.002	0.018	
5/23/2019 17:54			0.002	0.017	
5/23/2019 17:55	12.6	92.1	0.002	0.017	42.43158;-76.49751
5/23/2019 17:56			0.002	0.018	
5/23/2019 17:57			0.002	0.017	
5/23/2019 17:58			0.003	0.018	
5/23/2019 17:59			0.003	0.018	
5/23/2019 18:00	12.6	88.1	0.003	0.018	42.43154;-76.49751
5/23/2019 18:01			0.003	0.018	
5/23/2019 18:02			0.003	0.017	
5/23/2019 18:03			0.003	0.018	
5/23/2019 18:04			0.003	0.017	
5/23/2019 18:05	12.6	91.1	0.003	0.018	
5/23/2019 18:05					42.43152;-76.49754
5/23/2019 18:06			0.003	0.018	
5/23/2019 18:07			0.003	0.018	
5/23/2019 18:08			0.003	0.018	
5/23/2019 18:09			0.003	0.018	
5/23/2019 18:10	12.6	100.2	0.003	0.018	42.43155;-76.49748
5/23/2019 18:11			0.003	0.018	
5/23/2019 18:12			0.003	0.018	
5/23/2019 18:13			0.003	0.018	
5/23/2019 18:14			0.003	0.019	
5/23/2019 18:15	12.6	89.1	0.003	0.019	42.43154;-76.49746
5/23/2019 18:16			0.003	0.018	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/23/2019 18:17			0.003	0.019	
5/23/2019 18:18			0.003	0.019	
5/23/2019 18:19			0.003	0.019	
5/23/2019 18:20	12.6	96.2	0.003	0.019	42.43155;-76.49748
5/23/2019 18:21			0.003	0.019	
5/23/2019 18:22			0.003	0.019	
5/23/2019 18:23			0.003	0.02	
5/23/2019 18:24			0.004	0.019	
5/23/2019 18:25	12.6	90.1	0.004	0.019	42.43156;-76.49751
5/23/2019 18:26			0.004	0.02	
5/23/2019 18:27			0.004	0.019	
5/23/2019 18:28			0.004	0.019	
5/23/2019 18:29			0.004	0.019	
5/23/2019 18:30	12.6	98.2	0.004	0.019	42.43161;-76.49752
5/23/2019 18:31			0.004	0.019	
5/23/2019 18:32			0.004	0.019	
5/23/2019 18:33			0.004	0.019	
5/23/2019 18:34			0.004	0.019	
5/23/2019 18:35	12.6	108.3	0.004	0.019	42.43162;-76.49752
5/23/2019 18:36			0.004	0.02	
5/23/2019 18:37			0.004	0.019	
5/23/2019 18:38			0.004	0.019	
5/23/2019 18:39			0.004	0.02	
5/23/2019 18:40	12.6	90.1	0.004	0.02	42.43158;-76.49752
5/23/2019 18:41			0.004	0.019	
5/23/2019 18:42			0.004	0.02	
5/23/2019 18:43			0.004	0.02	
5/23/2019 18:44			0.004	0.02	
5/23/2019 18:45	12.6	100.2	0.004	0.02	42.43159;-76.49752
5/23/2019 18:46			0.004	0.02	
5/23/2019 18:47			0.004	0.02	
5/23/2019 18:48			0.004	0.02	
5/23/2019 18:49			0.005	0.02	
5/23/2019 18:50	12.6	105.3	0.005	0.02	42.4316;-76.49751
5/23/2019 18:51			0.005	0.02	
5/23/2019 18:52			0.005	0.02	
5/23/2019 18:53			0.005	0.019	
5/23/2019 18:54			0.005	0.02	
5/23/2019 18:55	12.6	93.1	0.005	0.02	42.43159;-76.49748
5/23/2019 18:56			0.005	0.02	
5/23/2019 18:57			0.005	0.02	
5/23/2019 18:58			0.005	0.02	
5/23/2019 18:59			0.005	0.02	
5/23/2019 19:00	12.6	97.2	0.005	0.02	42.43157;-76.49748
5/23/2019 19:01			0.005	0.021	
5/23/2019 19:02			0.005	0.021	
5/23/2019 19:03			0.005	0.02	
5/23/2019 19:04			0.005	0.021	
5/23/2019 19:05	12.6	90.1	0.005	0.02	42.43157;-76.49746
5/23/2019 19:06			0.005	0.02	
5/23/2019 19:07			0.005	0.02	
5/23/2019 19:08			0.005	0.02	
5/23/2019 19:09			0.005	0.02	
5/23/2019 19:10	12.3	91.1	0.005	0.02	42.43159;-76.49751
5/23/2019 19:11			0.005	0.02	
5/23/2019 19:12			0.005	0.021	
5/23/2019 19:13			0.006	0.022	
5/23/2019 19:14			0.006	0.021	
5/23/2019 19:15	12.1	103.2	0.006	0.021	42.43156;-76.49746
5/23/2019 19:16			0.006	0.022	
5/23/2019 19:17			0.006	0.022	
5/23/2019 19:18			0.006	0.021	
5/23/2019 19:19			0.006	0.021	
5/23/2019 19:20	12.1	91.1	0.006	0.022	42.43155;-76.49746
5/23/2019 19:21			0.006	0.02	
5/23/2019 19:22			0.006	0.021	
5/23/2019 19:23			0.006	0.021	
5/23/2019 19:24			0.006	0.021	
5/23/2019 19:25	12.4	101.2	0.006	0.022	42.43158;-76.49751
5/23/2019 19:26			0.006	0.02	
5/23/2019 19:27			0.006	0.021	
5/23/2019 19:28			0.006	0.022	
5/23/2019 19:29			0.006	0.021	
5/23/2019 19:30	12.4	93.1	0.006	0.021	42.43159;-76.49748
5/23/2019 19:31			0.006	0.021	
5/23/2019 19:32			0.006	0.023	
5/23/2019 19:33			0.006	0.022	
5/23/2019 19:34			0.006	0.022	
5/23/2019 19:35	12.4	95.1	0.007	0.022	42.43157;-76.49746
5/23/2019 19:36			0.007	0.022	
5/23/2019 19:37			0.007	0.022	
5/23/2019 19:38			0.007	0.022	
5/23/2019 19:39			0.007	0.022	
5/23/2019 19:40	12.4	95.1	0.007	0.021	42.43158;-76.49748
5/23/2019 19:41			0.007	0.022	
5/23/2019 19:42			0.007	0.022	
5/23/2019 19:43			0.007	0.022	
5/23/2019 19:44			0.007	0.022	
5/23/2019 19:45	12.5	92.1	0.007	0.022	42.43157;-76.49746
5/23/2019 19:46			0.007	0.021	
5/23/2019 19:47			0.007	0.022	
5/23/2019 19:48			0.007	0.021	
5/23/2019 19:49			0.007	0.022	
5/23/2019 19:50	12.4	91.1	0.007	0.022	42.43156;-76.49744
5/23/2019 19:51			0.007	0.022	
5/23/2019 19:52			0.007	0.022	
5/23/2019 19:53			0.007	0.022	
5/23/2019 19:54			0.007	0.022	
5/23/2019 19:55	12.4	92.1	0.007	0.022	42.43155;-76.49744
5/23/2019 19:56			0.007	0.021	
5/23/2019 19:57			0.008	0.022	
5/23/2019 19:58			0.008	0.022	
5/23/2019 19:59			0.008	0.022	
5/23/2019 20:00	12.4	90.1	0.008	0.023	42.4315;-76.49746
5/23/2019 20:01			0.008	0.023	
5/23/2019 20:02			0.008	0.023	
5/23/2019 20:03			0.008	0.022	
5/23/2019 20:04			0.008	0.023	
5/23/2019 20:05	12.4	102.2	0.008	0.023	42.43158;-76.49746

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/23/2019 20:06			0.008	0.023	
5/23/2019 20:07			0.008	0.025	
5/23/2019 20:08			0.008	0.023	
5/23/2019 20:09			0.008	0.023	
5/23/2019 20:10	12.4	94.1	0.008	0.023	42.43156;-76.49744
5/23/2019 20:11			0.008	0.023	
5/23/2019 20:12			0.008	0.022	
5/23/2019 20:13			0.008	0.023	
5/23/2019 20:14			0.008	0.023	
5/23/2019 20:15	12.4	96.2	0.008	0.022	42.43153;-76.49746
5/23/2019 20:16			0.008	0.022	
5/23/2019 20:17			0.008	0.022	
5/23/2019 20:18			0.009	0.023	
5/23/2019 20:19			0.009	0.029	
5/23/2019 20:20	12.4	92.1	0.009	0.028	42.43157;-76.49744
5/23/2019 20:21			0.009	0.025	
5/23/2019 20:22			0.009	0.023	
5/23/2019 20:23			0.009	0.023	
5/23/2019 20:24			0.009	0.023	
5/23/2019 20:25	12.4	93.1	0.009	0.022	42.4316;-76.49748
5/23/2019 20:26			0.009	0.022	
5/23/2019 20:27			0.009	0.022	
5/23/2019 20:28			0.009	0.023	
5/23/2019 20:29			0.009	0.022	
5/23/2019 20:30	12.4	91.1	0.009	0.023	42.43162;-76.49751
5/23/2019 20:31			0.009	0.022	
5/23/2019 20:32			0.009	0.023	
5/23/2019 20:33			0.009	0.026	
5/23/2019 20:34			0.009	0.027	
5/23/2019 20:35	12.4	94.1	0.009	0.027	42.43157;-76.49751
5/23/2019 20:36			0.009	0.023	
5/23/2019 20:37			0.009	0.023	
5/23/2019 20:38			0.01	0.023	
5/23/2019 20:39			0.01	0.023	
5/23/2019 20:40	12.4	93.1	0.01	0.022	42.43159;-76.49751
5/23/2019 20:41			0.01	0.022	
5/23/2019 20:42			0.01	0.022	
5/23/2019 20:43			0.01	0.022	
5/23/2019 20:44			0.01	0.022	
5/23/2019 20:45	12.4	91.1	0.01	0.021	42.43155;-76.49748
5/23/2019 20:46			0.01	0.021	
5/23/2019 20:47			0.01	0.022	
5/23/2019 20:48			0.01	0.023	
5/23/2019 20:49			0.01	0.022	
5/23/2019 20:50	12.4	95.1	0.01	0.022	
5/23/2019 20:50					42.43153;-76.49746
5/23/2019 20:51			0.01	0.022	
5/23/2019 20:52			0.01	0.022	
5/23/2019 20:53			0.01	0.022	
5/23/2019 20:54			0.01	0.022	
5/23/2019 20:55	12.4	92.1	0.01	0.022	
5/23/2019 20:55					42.43153;-76.4974
5/23/2019 20:56			0.01	0.024	
5/23/2019 20:57			0.01	0.024	
5/23/2019 20:58			0.01	0.023	
5/23/2019 20:59			0.01	0.022	
5/23/2019 21:00	12.2	99.2	0.011	0.022	
5/23/2019 21:00					42.43155;-76.49748
5/23/2019 21:01			0.011	0.022	
5/23/2019 21:02			0.011	0.021	
5/23/2019 21:03			0.011	0.022	
5/23/2019 21:04			0.011	0.022	
5/23/2019 21:05	12.3	93.1	0.011	0.022	
5/23/2019 21:05					42.43155;-76.49744
5/23/2019 21:06			0.011	0.022	
5/23/2019 21:07			0.011	0.022	
5/23/2019 21:08			0.011	0.022	
5/23/2019 21:09			0.011	0.021	
5/23/2019 21:10	12.3	93.1	0.011	0.026	
5/23/2019 21:10					42.43154;-76.49741
5/23/2019 21:11			0.011	0.024	
5/23/2019 21:12			0.011	0.022	
5/23/2019 21:13			0.011	0.022	
5/23/2019 21:14			0.011	0.022	
5/23/2019 21:15	12.3	95.1	0.011	0.022	
5/23/2019 21:15					42.43155;-76.49741
5/23/2019 21:16			0.011	0.023	
5/23/2019 21:17			0.011	0.022	
5/23/2019 21:18			0.011	0.023	
5/23/2019 21:19			0.011	0.022	
5/23/2019 21:20	12.3	92.1	0.011	0.022	
5/23/2019 21:20					42.43153;-76.49744
5/23/2019 21:21			0.012	0.023	
5/23/2019 21:22			0.012	0.021	
5/23/2019 21:23			0.012	0.022	
5/23/2019 21:24			0.012	0.021	
5/23/2019 21:25	12.3	108.3	0.012	0.022	
5/23/2019 21:25					42.43154;-76.49746
5/23/2019 21:26			0.012	0.022	
5/23/2019 21:27			0.012	0.022	
5/29/2019 11:22	12.5	148.8			
5/29/2019 11:24	12.6	102.2			
5/29/2019 11:25	12.6	76.9	0	-0.012	42.43324;-76.49677
5/29/2019 11:26			0	-0.013	
5/29/2019 11:27			0	-0.013	
5/29/2019 11:28			0	-0.013	
5/29/2019 11:29			0	-0.012	
5/29/2019 11:30	12.6	74.9	0	-0.014	42.43324;-76.49677
5/29/2019 11:31			0	-0.007	
5/29/2019 11:32			0	-0.013	
5/29/2019 11:33			0	-0.014	
5/29/2019 11:34			0	-0.014	
5/29/2019 11:35	12.6	76.9	0	-0.014	42.43324;-76.49677
5/29/2019 11:36			0	-0.014	
5/29/2019 11:37			0	-0.014	
5/29/2019 11:38			0	-0.014	
5/29/2019 11:39			0	-0.013	
5/29/2019 11:40	12.6	75.9	0	-0.014	42.43324;-76.49677
5/29/2019 11:41			0	-0.014	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/29/2019 11:42			0	-0.014	
5/29/2019 11:43			0	-0.014	
5/29/2019 11:44			0.001	-0.014	
5/29/2019 11:45	12.6	74.9	0.001	-0.014	42.43324;-76.49677
5/29/2019 11:46			0.001	-0.014	
5/29/2019 11:47			0.001	-0.013	
5/29/2019 11:48			0.001	-0.013	
5/29/2019 11:49			0.001	-0.013	
5/29/2019 11:50	12.6	74.9	0.001	-0.012	42.43324;-76.49677
5/29/2019 11:51			0.001	-0.014	
5/29/2019 11:52			0.001	-0.013	
5/29/2019 11:53			0.001	-0.014	
5/29/2019 11:54			0.001	-0.014	
5/29/2019 11:55	12.6	75.9	0.001	-0.014	42.43324;-76.49677
5/29/2019 11:56			0.001	-0.013	
5/29/2019 11:57			0.001	-0.013	
5/29/2019 11:58			0.001	-0.013	
5/29/2019 11:59			0.001	-0.013	
5/29/2019 12:00	12.6	76.9	0.001	-0.012	42.43324;-76.49677
5/29/2019 12:01			0.001	-0.012	
5/29/2019 12:02			0.001	-0.011	
5/29/2019 12:03			0.001	-0.008	
5/29/2019 12:04			0.001	-0.01	
5/29/2019 12:05	12.6	76.9	0.001	-0.011	42.43324;-76.49677
5/29/2019 12:06			0.001	-0.011	
5/29/2019 12:07			0.001	-0.012	
5/29/2019 12:08			0.001	-0.004	
5/29/2019 12:09			0.001	-0.012	
5/29/2019 12:10	12.6	76.9	0.001	-0.012	42.43324;-76.49677
5/29/2019 12:11			0.001	-0.012	
5/29/2019 12:12			0.001	-0.012	
5/29/2019 12:13			0.001	-0.012	
5/29/2019 12:14			0.001	-0.012	
5/29/2019 12:15	12.6	75.9	0.001	-0.011	42.43324;-76.49677
5/29/2019 12:16			0.001	-0.011	
5/29/2019 12:17			0.001	-0.012	
5/29/2019 12:18			0.001	-0.011	
5/29/2019 12:19			0.001	-0.011	
5/29/2019 12:20	12.6	74.9	0.001	-0.009	42.43324;-76.49677
5/29/2019 12:21			0.001	-0.011	
5/29/2019 12:22			0.001	-0.011	
5/29/2019 12:23			0.001	-0.011	
5/29/2019 12:24			0.001	-0.01	
5/29/2019 12:25	12.6	75.9	0.001	-0.011	42.43324;-76.49677
5/29/2019 12:26			0.001	-0.011	
5/29/2019 12:27			0.001	-0.01	
5/29/2019 12:28			0.001	-0.011	
5/29/2019 12:29			0.001	-0.011	
5/29/2019 12:30	12.6	76.9	0.002	-0.01	42.43324;-76.49677
5/29/2019 12:31			0.002	-0.01	
5/29/2019 12:32			0.002	-0.011	
5/29/2019 12:33			0.002	-0.011	
5/29/2019 12:34			0.002	-0.01	
5/29/2019 12:35	12.6	75.9	0.002	-0.011	42.43324;-76.49677
5/29/2019 12:36			0.002	-0.011	
5/29/2019 12:37			0.002	-0.011	
5/29/2019 12:38			0.002	-0.009	
5/29/2019 12:39			0.002	-0.009	
5/29/2019 12:40	12.6	76.9	0.002	-0.009	42.43324;-76.49677
5/29/2019 12:41			0.002	-0.009	
5/29/2019 12:42			0.002	-0.009	
5/29/2019 12:43			0.002	-0.01	
5/29/2019 12:44			0.002	-0.01	
5/29/2019 12:45	12.6	76.9	0.002	-0.01	42.43324;-76.49677
5/29/2019 12:46			0.002	-0.009	
5/29/2019 12:47			0.002	-0.01	
5/29/2019 12:48			0.002	-0.009	
5/29/2019 12:49			0.002	-0.009	
5/29/2019 12:50	12.6	75.9	0.002	-0.009	42.43324;-76.49677
5/29/2019 12:51			0.002	-0.01	
5/29/2019 12:52			0.002	-0.009	
5/29/2019 12:53			0.002	-0.009	
5/29/2019 12:54			0.002	-0.009	
5/29/2019 12:55	12.6	74.9	0.002	-0.009	42.43324;-76.49677
5/29/2019 12:56			0.002	-0.01	
5/29/2019 12:57			0.002	-0.01	
5/29/2019 12:58			0.002	-0.01	
5/29/2019 12:59			0.002	-0.009	
5/29/2019 13:00	12.6	77.9	0.002	-0.009	42.43324;-76.49677
5/29/2019 13:01			0.002	-0.009	
5/29/2019 13:02			0.002	-0.009	
5/29/2019 13:03			0.002	-0.009	
5/29/2019 13:04			0.002	-0.009	
5/29/2019 13:05	12.6	100.2	0.002	-0.009	42.43324;-76.49677
5/29/2019 13:06			0.002	-0.009	
5/29/2019 13:07			0.002	-0.009	
5/29/2019 13:08			0.002	-0.009	
5/29/2019 13:09			0.002	-0.009	
5/29/2019 13:10	12.6	75.9	0.002	-0.009	42.43324;-76.49677
5/29/2019 13:11			0.002	-0.009	
5/29/2019 13:12			0.002	-0.009	
5/29/2019 13:13			0.002	-0.009	
5/29/2019 13:14			0.002	0.026	
5/29/2019 13:15	12.6	76.9	0.002	-0.009	42.43324;-76.49677
5/29/2019 13:16			0.002	0.005	
5/29/2019 13:17			0.002	-0.002	
5/29/2019 13:18			0.002	-0.007	
5/29/2019 13:19			0.002	-0.009	
5/29/2019 13:20	12.6	75.9	0.002	-0.009	42.43324;-76.49677
5/29/2019 13:21			0.002	-0.009	
5/29/2019 13:22			0.002	-0.009	
5/29/2019 13:23			0.002	-0.009	
5/29/2019 13:24			0.002	-0.008	
5/29/2019 13:25	12.5	74.9	0.002	-0.009	42.43324;-76.49677
5/29/2019 13:26			0.002	-0.008	
5/29/2019 13:27			0.002	-0.008	
5/29/2019 13:28			0.002	-0.009	
5/29/2019 13:29			0.002	-0.009	
5/29/2019 13:30	12.6	76.9	0.002	-0.008	42.43324;-76.49677

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/29/2019 13:31			0.002	-0.009	
5/29/2019 13:32			0.002	-0.008	
5/29/2019 13:33			0.002	-0.008	
5/29/2019 13:34			0.002	-0.007	
5/29/2019 13:35	12.6	75.9	0.003	-0.008	42.43324;-76.49677
5/29/2019 13:36			0.003	-0.008	
5/29/2019 13:37			0.003	-0.007	
5/29/2019 13:38			0.003	-0.008	
5/29/2019 13:39			0.003	-0.008	
5/29/2019 13:40	12.5	79	0.003	-0.008	42.43324;-76.49677
5/29/2019 13:41			0.003	-0.008	
5/29/2019 13:42			0.003	-0.008	
5/29/2019 13:43			0.003	-0.009	
5/29/2019 13:44			0.003	-0.008	
5/29/2019 13:45	12.5	76.9	0.003	-0.009	42.43324;-76.49677
5/29/2019 13:46			0.003	-0.008	
5/29/2019 13:47			0.003	-0.008	
5/29/2019 13:48			0.003	-0.008	
5/29/2019 13:49			0.003	-0.008	
5/29/2019 13:50	12.5	77.9	0.003	-0.007	42.43324;-76.49677
5/29/2019 13:51			0.003	-0.008	
5/29/2019 13:52			0.003	-0.007	
5/29/2019 13:53			0.003	-0.007	
5/29/2019 13:54			0.003	-0.007	
5/29/2019 13:55	12.5	76.9	0.003	-0.007	42.43324;-76.49677
5/29/2019 13:56			0.003	-0.007	
5/29/2019 13:57			0.003	-0.007	
5/29/2019 13:58			0.003	-0.007	
5/29/2019 13:59			0.003	-0.007	
5/29/2019 14:00	12.5	77.9	0.003	-0.006	42.43324;-76.49677
5/29/2019 14:01			0.003	-0.007	
5/29/2019 14:02			0.003	-0.007	
5/29/2019 14:03			0.003	-0.006	
5/29/2019 14:04			0.003	-0.006	
5/29/2019 14:05	12.5	77.9	0.003	-0.006	42.43324;-76.49677
5/29/2019 14:06			0.003	-0.006	
5/29/2019 14:07			0.003	-0.007	
5/29/2019 14:08			0.003	-0.006	
5/29/2019 14:09			0.003	-0.005	
5/29/2019 14:10	12.5	74.9	0.003	-0.006	42.43324;-76.49677
5/29/2019 14:11			0.003	-0.006	
5/29/2019 14:12			0.003	-0.007	
5/29/2019 14:13			0.003	-0.007	
5/29/2019 14:14			0.003	-0.007	
5/29/2019 14:15	12.5	74.9	0.003	-0.007	42.43324;-76.49677
5/29/2019 14:16			0.003	-0.007	
5/29/2019 14:17			0.003	-0.007	
5/29/2019 14:18			0.003	-0.007	
5/29/2019 14:19			0.003	-0.006	
5/29/2019 14:20	12.5	77.9	0.003	-0.006	42.43324;-76.49677
5/29/2019 14:21			0.003	-0.007	
5/29/2019 14:22			0.003	-0.007	
5/29/2019 14:23			0.003	-0.007	
5/29/2019 14:24			0.003	-0.007	
5/29/2019 14:25	12.5	76.9	0.003	-0.006	42.43324;-76.49677
5/29/2019 14:26			0.003	-0.006	
5/29/2019 14:27			0.003	-0.007	
5/29/2019 14:28			0.003	-0.006	
5/29/2019 14:29			0.003	-0.005	
5/29/2019 14:30	12.5	76.9	0.003	-0.005	42.43324;-76.49677
5/29/2019 14:31			0.003	-0.006	
5/29/2019 14:32			0.003	-0.006	
5/29/2019 14:33			0.003	-0.006	
5/29/2019 14:34			0.003	-0.006	
5/29/2019 14:35	12.5	75.9	0.003	-0.006	42.43324;-76.49677
5/29/2019 14:36			0.003	-0.006	
5/29/2019 14:37			0.003	-0.006	
5/29/2019 14:38			0.003	-0.006	
5/29/2019 14:39			0.003	-0.006	
5/29/2019 14:40	12.5	116.4	0.003	-0.004	42.43324;-76.49677
5/29/2019 14:41			0.003	-0.006	
5/29/2019 14:42			0.003	-0.006	
5/29/2019 14:43			0.003	-0.006	
5/29/2019 14:44			0.003	-0.006	
5/29/2019 14:45	12.5	76.9	0.003	-0.006	42.43324;-76.49677
5/29/2019 14:46			0.003	-0.006	
5/29/2019 14:47			0.003	-0.006	
5/29/2019 14:48			0.003	-0.006	
5/29/2019 14:49			0.003	-0.006	
5/29/2019 14:50	12.5	75.9	0.003	-0.001	42.43324;-76.49677
5/29/2019 14:51			0.003	-0.005	
5/29/2019 14:52			0.003	-0.006	
5/29/2019 14:53			0.003	-0.006	
5/29/2019 14:54			0.003	-0.006	
5/29/2019 14:55	12.5	76.9	0.003	-0.005	42.43324;-76.49677
5/29/2019 14:56			0.003	-0.004	
5/29/2019 14:57			0.003	-0.005	
5/29/2019 14:58			0.003	-0.004	
5/29/2019 14:59			0.003	-0.004	
5/29/2019 15:00	12.5	76.9	0.003	-0.005	42.43324;-76.49677
5/29/2019 15:01			0.003	-0.004	
5/29/2019 15:02			0.003	-0.004	
5/29/2019 15:03			0.003	-0.004	
5/29/2019 15:04			0.004	-0.003	
5/29/2019 15:05	12.5	76.9	0.004	-0.004	42.43324;-76.49677
5/29/2019 15:06			0.004	-0.004	
5/29/2019 15:07			0.004	-0.003	
5/29/2019 15:08			0.004	-0.004	
5/29/2019 15:09			0.004	-0.003	
5/29/2019 15:10	12.5	76.9	0.004	-0.003	42.43324;-76.49677
5/29/2019 15:11			0.004	-0.004	
5/29/2019 15:12			0.004	-0.003	
5/29/2019 15:13			0.004	0.007	
5/29/2019 15:14			0.004	-0.003	
5/29/2019 15:15	12.5	77.9	0.004	-0.002	42.43324;-76.49677
5/29/2019 15:16			0.004	-0.003	
5/29/2019 15:17			0.004	-0.002	
5/29/2019 15:18			0.004	-0.002	
5/29/2019 15:19			0.004	-0.002	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/29/2019 15:20	12.5	75.9	0.004	-0.003	42.43324;-76.49677
5/29/2019 15:21			0.004	-0.002	
5/29/2019 15:22			0.004	-0.001	
5/29/2019 15:23			0.004	-0.001	
5/29/2019 15:24			0.004	0	
5/29/2019 15:25	12.5	76.9	0.004	-0.001	42.43324;-76.49677
5/29/2019 15:26			0.004	-0.001	
5/29/2019 15:27			0.004	-0.002	
5/29/2019 15:28			0.004	-0.002	
5/29/2019 15:29			0.004	-0.002	
5/29/2019 15:30	12.5	77.9	0.004	0	42.43324;-76.49677
5/29/2019 15:31			0.004	-0.002	
5/29/2019 15:32			0.004	-0.002	
5/29/2019 15:33			0.004	-0.002	
5/29/2019 15:34			0.004	-0.001	
5/29/2019 15:35	12.4	76.9	0.004	-0.001	42.43324;-76.49677
5/29/2019 15:36			0.004	0	
5/29/2019 15:37			0.004	0	
5/29/2019 15:38			0.004	-0.001	
5/29/2019 15:39			0.004	-0.001	
5/29/2019 15:40	12.4	76.9	0.004	-0.001	42.43324;-76.49677
5/29/2019 15:41			0.004	-0.001	
5/29/2019 15:42			0.004	-0.001	
5/29/2019 15:43			0.004	-0.002	
5/29/2019 15:44			0.004	-0.001	
5/29/2019 15:45	12.4	79	0.004	-0.001	42.43324;-76.49677
5/29/2019 15:46			0.004	-0.001	
5/29/2019 15:47			0.004	-0.002	
5/29/2019 15:48			0.004	-0.001	
5/29/2019 15:49			0.004	-0.001	
5/29/2019 15:50	12.4	76.9	0.004	-0.001	42.43324;-76.49677
5/29/2019 15:51			0.004	-0.002	
5/29/2019 15:52			0.004	-0.002	
5/29/2019 15:53			0.004	-0.003	
5/29/2019 15:54			0.004	-0.003	
5/29/2019 15:55	12.4	76.9	0.004	-0.003	42.43324;-76.49677
5/29/2019 15:56			0.004	-0.003	
5/29/2019 15:57			0.004	-0.003	
5/29/2019 15:58			0.004	-0.003	
5/29/2019 15:59			0.004	-0.003	
5/29/2019 16:00	12.4	77.9	0.004	-0.002	42.43324;-76.49677
5/29/2019 16:01			0.004	-0.001	
5/29/2019 16:02			0.004	-0.002	
5/29/2019 16:03			0.004	-0.002	
5/29/2019 16:04			0.004	-0.002	
5/29/2019 16:05	12.4	77.9	0.004	-0.001	42.43324;-76.49677
5/29/2019 16:06			0.004	-0.001	
5/29/2019 16:07			0.004	-0.001	
5/29/2019 16:08			0.004	-0.001	
5/29/2019 16:09			0.004	-0.001	
5/29/2019 16:10	12.4	75.9	0.004	-0.001	42.43324;-76.49677
5/29/2019 16:11			0.004	-0.001	
5/29/2019 16:12			0.004	-0.001	
5/29/2019 16:13			0.004	-0.001	
5/29/2019 16:14			0.004	-0.001	
5/29/2019 16:15	12.4	79	0.004	-0.001	42.43324;-76.49677
5/29/2019 16:16			0.004	-0.001	
5/29/2019 16:17			0.004	-0.001	
5/29/2019 16:18			0.004	0	
5/29/2019 16:19			0.004	-0.001	
5/29/2019 16:20	12.4	77.9	0.004	-0.001	42.43324;-76.49677
5/29/2019 16:21			0.004	0	
5/29/2019 16:22			0.004	0	
5/29/2019 16:23			0.004	0	
5/29/2019 16:24			0.004	0	
5/29/2019 16:25	12.4	76.9	0.004	0	42.43324;-76.49677
5/29/2019 16:26			0.004	0	
5/29/2019 16:27			0.004	0	
5/29/2019 16:28			0.004	0	
5/29/2019 16:29			0.004	0	
5/29/2019 16:30	12.4	75.9	0.004	0	42.43324;-76.49677
5/29/2019 16:31			0.004	0	
5/29/2019 16:32			0.004	0	
5/29/2019 16:33			0.004	0	
5/29/2019 16:34			0.004	0	
5/29/2019 16:35	12.4	75.9	0.004	0	42.43324;-76.49677
5/29/2019 16:36			0.004	0	
5/29/2019 16:37			0.004	0.001	
5/29/2019 16:38			0.004	0	
5/29/2019 16:39			0.004	0	
5/29/2019 16:40	12.4	76.9	0.004	0	42.43324;-76.49677
5/29/2019 16:41			0.004	0	
5/29/2019 16:42			0.004	0	
5/29/2019 16:43			0.004	0.003	
5/29/2019 16:44			0.004	0.002	
5/29/2019 16:45	12.4	79	0.004	0	42.43324;-76.49677
5/29/2019 16:46			0.004	0.001	
5/29/2019 16:47			0.004	0	
5/29/2019 16:48			0.004	0.001	
5/29/2019 16:49			0.004	0	
5/29/2019 16:50	12.4	95.1	0.004	0	42.43324;-76.49677
5/29/2019 16:51			0.004	0	
5/29/2019 16:52			0.004	0	
5/29/2019 16:53			0.004	0	
5/29/2019 16:54			0.004	0	
5/29/2019 16:55	12.4	77.9	0.004	0	42.43324;-76.49677
5/29/2019 16:56			0.004	0	
5/29/2019 16:57			0.004	0	
5/29/2019 16:58			0.004	0	
5/29/2019 16:59			0.004	0.001	
5/29/2019 17:00	12.4	76.9	0.004	0	42.43324;-76.49677
5/29/2019 17:01			0.004	0.005	
5/29/2019 17:02			0.004	0	
5/29/2019 17:03			0.004	0	
5/29/2019 17:04			0.004	0	
5/29/2019 17:05	12.4	77.9	0.004	0	42.43324;-76.49677
5/29/2019 17:06			0.004	0	
5/29/2019 17:07			0.004	0.001	
5/29/2019 17:08			0.004	0	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/29/2019 17:09			0.004	0	
5/29/2019 17:10	12.4	77.9	0.004	0	42.43324;-76.49677
5/29/2019 17:11			0.004	0	
5/29/2019 17:12			0.004	0.001	
5/29/2019 17:13			0.004	0.001	
5/29/2019 17:14			0.004	0.001	
5/29/2019 17:15	12.4	77.9	0.004	0.001	42.43324;-76.49677
5/29/2019 17:16			0.004	0.001	
5/29/2019 17:17			0.004	0.001	
5/29/2019 17:18			0.004	0.001	
5/29/2019 17:19			0.004	0.001	
5/29/2019 17:20	12.4	76.9	0.004	0.001	42.43324;-76.49677
5/29/2019 17:21			0.004	0.001	
5/29/2019 17:22			0.004	0.001	
5/29/2019 17:23			0.004	0.001	
5/29/2019 17:24			0.004	0.003	
5/29/2019 17:25	12.4	77.9	0.004	0.004	42.43324;-76.49677
5/29/2019 17:26			0.004	0.001	
5/29/2019 17:27			0.004	0.002	
5/29/2019 17:28			0.004	0.002	
5/29/2019 17:29			0.004	0.002	
5/29/2019 17:30	12.4	77.9	0.004	0.002	42.43324;-76.49677
5/29/2019 17:31			0.004	0.003	
5/29/2019 17:32			0.004	0.002	
5/29/2019 17:33			0.004	0.003	
5/29/2019 17:34			0.004	0.004	
5/29/2019 17:35	12.4	79	0.004	0.003	42.43324;-76.49677
5/29/2019 17:36			0.003	0.002	
5/29/2019 17:37			0.003	0.002	
5/29/2019 17:38			0.003	0.002	
5/29/2019 17:39			0.003	0.002	
5/29/2019 17:40	12.3	76.9	0.003	0.002	42.43324;-76.49677
5/29/2019 17:41			0.003	0.003	
5/29/2019 17:42			0.003	0.003	
5/29/2019 17:43			0.003	0.003	
5/29/2019 17:44			0.003	0.004	
5/29/2019 17:45	12.3	76.9	0.003	0.004	42.43324;-76.49677
5/29/2019 17:46			0.003	0.004	
5/29/2019 17:47			0.003	0.004	
5/29/2019 17:48			0.003	0.003	
5/29/2019 17:49			0.003	0.004	
5/29/2019 17:50	12.3	76.9	0.003	0.004	42.43324;-76.49677
5/29/2019 17:51			0.003	0.004	
5/29/2019 17:52			0.003	0.003	
5/29/2019 17:53			0.003	0.003	
5/29/2019 17:54			0.003	0.003	
5/29/2019 17:55	12.3	77.9	0.003	0.004	42.43324;-76.49677
5/29/2019 17:56			0.003	0.004	
5/29/2019 17:57			0.003	0.004	
5/29/2019 17:58			0.003	0.003	
5/29/2019 17:59			0.003	0.004	
5/29/2019 18:00	12.3	77.9	0.003	0.004	42.43324;-76.49677
5/29/2019 18:01			0.003	0.004	
5/29/2019 18:02			0.003	0.003	
5/29/2019 18:03			0.003	0.004	
5/29/2019 18:04			0.003	0.004	
5/29/2019 18:05	12.3	77.9	0.003	0.003	
5/29/2019 18:05					42.43324;-76.49677
5/29/2019 18:06			0.003	0.004	
5/29/2019 18:07			0.003	0.004	
5/29/2019 18:08			0.003	0.004	
5/29/2019 18:09			0.003	0.005	
5/29/2019 18:10	12.3	85	0.003	0.007	
5/29/2019 18:10					42.43324;-76.49677
5/29/2019 18:11			0.003	0.006	
5/29/2019 18:12			0.003	0.005	
5/29/2019 18:13			0.003	0.004	
5/29/2019 18:14			0.003	0.005	
5/29/2019 18:15	12.3	84	0.003	0.005	
5/29/2019 18:15					42.43324;-76.49677
5/29/2019 18:16			0.003	0.005	
5/29/2019 18:17			0.003	0.006	
5/29/2019 18:18			0.003	0.006	
5/29/2019 18:19			0.003	0.006	
5/29/2019 18:20	12.3	79	0.003	0.006	
5/29/2019 18:20					42.43324;-76.49677
5/29/2019 18:21			0.003	0.006	
5/29/2019 18:22			0.003	0.005	
5/29/2019 18:23			0.003	0.004	
5/29/2019 18:24			0.003	0.006	
5/29/2019 18:25	12.3	77.9	0.003	0.017	
5/29/2019 18:25					42.43324;-76.49677
5/29/2019 18:26			0.003	0.009	
5/29/2019 18:27			0.003	0.006	
5/29/2019 18:28			0.003	0.005	
5/29/2019 18:29			0.003	0.005	
5/29/2019 18:30	12.3	76.9	0.003	0.004	
5/29/2019 18:30					42.43324;-76.49677
5/29/2019 18:31			0.003	0.005	
5/29/2019 18:32			0.003	0.005	
5/29/2019 18:33			0.003	0.006	
5/29/2019 18:34			0.003	0.008	
5/29/2019 18:35	12.3	77.9	0.003	0.007	
5/29/2019 18:35					42.43324;-76.49677
5/29/2019 18:36			0.003	0.007	
5/29/2019 18:37			0.003	0.007	
5/29/2019 18:38			0.003	0.006	
5/29/2019 18:39			0.003	0.006	
5/29/2019 18:40	12.3	77.9	0.003	0.006	
5/29/2019 18:40					42.43324;-76.49677
5/29/2019 18:41			0.003	0.006	
5/29/2019 18:42			0.003	0.006	
5/29/2019 18:43			0.003	0.006	
5/29/2019 18:44			0.003	0.006	
5/29/2019 18:45	12.3	79	0.003	0.006	
5/29/2019 18:45					42.43324;-76.49677
5/29/2019 18:46			0.003	0.006	
5/29/2019 18:47			0.003	0.006	
5/29/2019 18:48			0.003	0.006	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/29/2019 18:49			0.003	0.006	
5/29/2019 18:50	12.3	79	0.003	0.006	
5/29/2019 18:50					42.43324;-76.49677
5/29/2019 18:51			0.003	0.005	
5/29/2019 18:52			0.003	0.005	
5/29/2019 18:53			0.003	0.006	
5/29/2019 18:54			0.003	0.006	
5/29/2019 18:55	12.3	76.9	0.003	0.007	
5/29/2019 18:55					42.43324;-76.49677
5/29/2019 18:56			0.003	0.006	
5/29/2019 18:57			0.003	0.006	
5/29/2019 18:58			0.003	0.006	
5/29/2019 18:59			0.003	0.006	
5/29/2019 19:00	12.3	77.9	0.003	0.006	
5/29/2019 19:00					42.43324;-76.49677
5/29/2019 19:01			0.003	0.007	
5/29/2019 19:02			0.003	0.006	
5/29/2019 19:03			0.003	0.007	
5/29/2019 19:04			0.003	0.007	
5/29/2019 19:05	12.3	85	0.003	0.009	
5/29/2019 19:05					42.43324;-76.49677
5/29/2019 19:06			0.003	0.008	
5/29/2019 19:07			0.003	0.008	
5/29/2019 19:08			0.002	0.008	
5/29/2019 19:09			0.002	0.007	
5/29/2019 19:10	12.3	85	0.002	0.008	
5/29/2019 19:10					42.43324;-76.49677
5/29/2019 19:11			0.002	0.008	
5/29/2019 19:12			0.002	0.008	
5/29/2019 19:13			0.002	0.008	
5/29/2019 19:14			0.002	0.008	
5/29/2019 19:15	12.3	76.9	0.002	0.008	
5/29/2019 19:15					42.43324;-76.49677
5/29/2019 19:16			0.002	0.008	
5/29/2019 19:17			0.002	0.008	
5/29/2019 19:18			0.002	0.008	
5/29/2019 19:19			0.002	0.008	
5/29/2019 19:20	12.3	77.9	0.002	0.008	
5/29/2019 19:20					42.43324;-76.49677
5/29/2019 19:21			0.002	0.008	
5/29/2019 19:22			0.002	0.008	
5/29/2019 19:23			0.002	0.008	
5/29/2019 19:24			0.002	0.008	
5/29/2019 19:25	12.3	79	0.002	0.008	
5/29/2019 19:25					42.43324;-76.49677
5/29/2019 19:26			0.002	0.007	
5/29/2019 19:27			0.002	0.008	
5/29/2019 19:28			0.002	0.008	
5/29/2019 19:29			0.002	0.008	
5/29/2019 19:30	12.3	82	0.002	0.008	
5/29/2019 19:30					42.43324;-76.49677
5/29/2019 19:31			0.002	0.008	
5/29/2019 19:32			0.002	0.007	
5/29/2019 19:33			0.002	0.007	
5/29/2019 19:34			0.002	0.008	
5/29/2019 19:35	12.3	76.9	0.002	0.008	
5/29/2019 19:35					42.43324;-76.49677
5/29/2019 19:36			0.002	0.008	
5/29/2019 19:37			0.002	0.008	
5/29/2019 19:38			0.002	0.008	
5/29/2019 19:39			0.002	0.007	
5/29/2019 19:40	12.3	76.9	0.002	0.008	
5/29/2019 19:40					42.43324;-76.49677
5/29/2019 19:41			0.002	0.008	
5/29/2019 19:42			0.002	0.008	
5/29/2019 19:43			0.002	0.008	
5/29/2019 19:44			0.002	0.007	
5/29/2019 19:45	12.3	79	0.002	0.007	
5/29/2019 19:45					42.43324;-76.49677
5/29/2019 19:46			0.002	0.008	
5/29/2019 19:47			0.002	0.011	
5/29/2019 19:48			0.002	0.011	
5/29/2019 19:49			0.002	0.011	
5/29/2019 19:50	12.3	79	0.002	0.012	
5/29/2019 19:50					42.43324;-76.49677
5/29/2019 19:51			0.002	0.012	
5/29/2019 19:52			0.002	0.014	
5/29/2019 19:53			0.002	0.011	
5/29/2019 19:54			0.002	0.01	
5/29/2019 19:55	12.3	77.9	0.002	0.01	
5/29/2019 19:55					42.43324;-76.49677
5/29/2019 19:56			0.002	0.009	
5/29/2019 19:57			0.002	0.008	
5/29/2019 19:58			0.002	0.008	
5/29/2019 19:59			0.002	0.009	
5/29/2019 20:00	12.3	80	0.002	0.014	
5/29/2019 20:00					42.43324;-76.49677
5/29/2019 20:01			0.002	0.008	
5/29/2019 20:02			0.002	0.008	
5/29/2019 20:03			0.002	0.008	
5/29/2019 20:04			0.002	0.007	
5/29/2019 20:05	12.3	77.9	0.002	0.007	
5/29/2019 20:05					42.43324;-76.49677
5/29/2019 20:06			0.002	0.007	
5/29/2019 20:07			0.002	0.007	
5/29/2019 20:08			0.002	0.007	
5/29/2019 20:09			0.002	0.007	
5/29/2019 20:10	12.3	81	0.002	0.007	
5/29/2019 20:10					42.43324;-76.49677
5/29/2019 20:11			0.002	0.007	
5/29/2019 20:12			0.002	0.007	
5/29/2019 20:13			0.002	0.007	
5/29/2019 20:14			0.002	0.009	
5/29/2019 20:15	12.3	77.9	0.002	0.012	
5/29/2019 20:15					42.43324;-76.49677
5/29/2019 20:16			0.002	0.009	
5/29/2019 20:17			0.002	0.007	
5/29/2019 20:18			0.002	0.008	
5/29/2019 20:19			0.002	0.007	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/29/2019 20:20	12.2	77.9	0.002	0.008	
5/29/2019 20:20					42.43324;-76.49677
5/29/2019 20:21			0.002	0.007	
5/29/2019 20:22			0.002	0.01	
5/29/2019 20:23			0.002	0.007	
5/29/2019 20:24			0.002	0.007	
5/29/2019 20:25	12.2	76.9	0.002	0.008	
5/29/2019 20:25					42.43324;-76.49677
5/29/2019 20:26			0.002	0.006	
5/29/2019 20:27			0.002	0.007	
5/29/2019 20:28			0.002	0.007	
5/29/2019 20:29			0.002	0.006	
5/29/2019 20:30	12.2	77.9	0.002	0.007	
5/29/2019 20:30					42.43324;-76.49677
5/29/2019 20:31			0.002	0.007	
5/29/2019 20:32			0.002	0.007	
5/29/2019 20:33			0.002	0.007	
5/29/2019 20:34			0.002	0.007	
5/29/2019 20:35	12.2	80	0.002	0.007	
5/29/2019 20:35					42.43324;-76.49677
5/29/2019 20:36			0.002	0.007	
5/29/2019 20:37			0.002	0.007	
5/29/2019 20:38			0.002	0.007	
5/29/2019 20:39			0.002	0.007	
5/29/2019 20:40	12.2	75.9	0.002	0.007	
5/29/2019 20:40					42.43324;-76.49677
5/29/2019 20:41			0.002	0.008	
5/29/2019 20:42			0.002	0.006	
5/29/2019 20:43			0.002	0.011	
5/29/2019 20:44			0.002	0.01	
5/29/2019 20:45	12.2	77.9	0.002	0.009	
5/29/2019 20:45					42.43324;-76.49677
5/29/2019 20:46			0.002	0.008	
5/29/2019 20:47			0.002	0.007	
5/29/2019 20:48			0.002	0.011	
5/29/2019 20:49			0.002	0.007	
5/29/2019 20:50	12.2	76.9	0.002	0.007	
5/29/2019 20:50					42.43324;-76.49677
5/29/2019 20:51			0.002	0.008	
5/29/2019 20:52			0.002	0.007	
5/29/2019 20:53			0.002	0.007	
5/29/2019 20:54			0.002	0.008	
5/29/2019 20:55	12.2	79	0.002	0.008	
5/29/2019 20:55					42.43324;-76.49677
5/29/2019 20:56			0.002	0.008	
5/29/2019 20:57			0.002	0.008	
5/29/2019 20:58			0.002	0.007	
5/29/2019 20:59			0.002	0.008	
5/29/2019 21:00	12.2	77.9	0.002	0.007	
5/29/2019 21:00					42.43324;-76.49677
5/29/2019 21:01			0.002	0.008	
5/29/2019 21:02			0.002	0.008	
5/29/2019 21:03			0.002	0.008	
5/29/2019 21:04			0.002	0.009	
5/29/2019 21:05	12.2	80	0.002	0.009	
5/29/2019 21:05					42.43324;-76.49677
5/29/2019 21:06			0.002	0.009	
5/29/2019 21:07			0.002	0.01	
5/29/2019 21:08			0.002	0.009	
5/29/2019 21:09			0.002	0.01	
5/29/2019 21:10	12.2	77.9	0.002	0.01	
5/29/2019 21:10					42.43324;-76.49677
5/29/2019 21:11			0.002	0.01	
5/29/2019 21:12			0.002	0.01	
5/30/2019 11:57	12.8	110.3			
5/30/2019 11:59			0	0.035	
5/30/2019 12:00	12.7	98.2	0	0.042	
5/30/2019 12:00					42.43327;-76.49686
5/30/2019 12:01			0	0.041	
5/30/2019 12:02			0	0.04	
5/30/2019 12:03			0	0.04	
5/30/2019 12:04			0	0.04	
5/30/2019 12:05	12.7	99.2	0	0.039	42.43318;-76.49664
5/30/2019 12:06			0	0.039	
5/30/2019 12:07			0	0.037	
5/30/2019 12:08			0	0.036	
5/30/2019 12:09			0	0.036	
5/30/2019 12:10	12.7	98.2	0	0.035	42.43319;-76.49677
5/30/2019 12:11			0	0.034	
5/30/2019 12:12			0	0.034	
5/30/2019 12:13			0	0.033	
5/30/2019 12:14			0.001	0.032	
5/30/2019 12:15	12.7	95.1	0.001	0.032	42.43307;-76.49682
5/30/2019 12:16			0.001	0.032	
5/30/2019 12:17			0.001	0.031	
5/30/2019 12:18			0.001	0.03	
5/30/2019 12:19			0.001	0.03	
5/30/2019 12:20	12.7	98.2	0.002	0.029	42.4331;-76.4968
5/30/2019 12:21			0.002	0.029	
5/30/2019 12:22			0.002	0.031	
5/30/2019 12:23			0.002	0.03	
5/30/2019 12:24			0.002	0.034	
5/30/2019 12:25	12.7	95.1	0.002	0.032	42.43325;-76.49664
5/30/2019 12:26			0.002	0.031	
5/30/2019 12:27			0.002	0.029	
5/30/2019 12:28			0.002	0.029	
5/30/2019 12:29			0.002	0.028	
5/30/2019 12:30	12.7	95.1	0.002	0.028	42.43373;-76.49694
5/30/2019 12:31			0.002	0.027	
5/30/2019 12:32			0.002	0.029	
5/30/2019 12:33			0.002	0.031	
5/30/2019 12:34			0.002	0.03	
5/30/2019 12:35	12.7	99.2	0.002	0.027	42.43398;-76.49707
5/30/2019 12:36			0.003	0.028	
5/30/2019 12:37			0.003	0.032	
5/30/2019 12:38			0.003	0.032	
5/30/2019 12:39			0.003	0.032	
5/30/2019 12:40	12.6	98.2	0.003	0.031	42.43332;-76.49682
5/30/2019 12:41			0.003	0.047	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/30/2019 12:42			0.003	0.044	
5/30/2019 12:43			0.003	0.028	
5/30/2019 12:44			0.003	0.028	
5/30/2019 12:45	12.6	90.1	0.003	0.028	42.43325;-76.4968
5/30/2019 12:46			0.003	0.029	
5/30/2019 12:47			0.003	0.029	
5/30/2019 12:48			0.003	0.03	
5/30/2019 12:49			0.003	0.029	
5/30/2019 12:50	12.6	96.2	0.003	0.028	42.43324;-76.49677
5/30/2019 12:51			0.004	0.026	
5/30/2019 12:52			0.004	0.03	
5/30/2019 12:53			0.004	0.029	
5/30/2019 12:54			0.004	0.029	
5/30/2019 12:55	12.6	89.1	0.004	0.024	42.43315;-76.49675
5/30/2019 12:56			0.004	0.024	
5/30/2019 12:57			0.004	0.028	
5/30/2019 12:58			0.004	0.03	
5/30/2019 12:59			0.004	0.028	
5/30/2019 13:00	12.6	94.1	0.004	0.028	42.4332;-76.49669
5/30/2019 13:01			0.004	0.025	
5/30/2019 13:02			0.004	0.022	
5/30/2019 13:03			0.004	0.021	
5/30/2019 13:04			0.004	0.051	
5/30/2019 13:05	12.6	94.1	0.004	0.053	42.43315;-76.49673
5/30/2019 13:06			0.004	0.041	
5/30/2019 13:07			0.005	0.054	
5/30/2019 13:08			0.005	0.048	
5/30/2019 13:09			0.005	0.025	
5/30/2019 13:10	12.6	97.2	0.005	0.037	42.43321;-76.49669
5/30/2019 13:11			0.005	0.027	
5/30/2019 13:12			0.005	0.022	
5/30/2019 13:13			0.005	0.022	
5/30/2019 13:14			0.005	0.021	
5/30/2019 13:15	12.6	95.1	0.005	0.022	42.43314;-76.49673
5/30/2019 13:16			0.005	0.022	
5/30/2019 13:17			0.005	0.021	
5/30/2019 13:18			0.005	0.021	
5/30/2019 13:19			0.005	0.021	
5/30/2019 13:20	12.6	95.1	0.005	0.021	42.43314;-76.49673
5/30/2019 13:21			0.005	0.021	
5/30/2019 13:22			0.005	0.029	
5/30/2019 13:23			0.005	0.021	
5/30/2019 13:24			0.005	0.021	
5/30/2019 13:25	12.6	92.1	0.006	0.021	42.43318;-76.49677
5/30/2019 13:26			0.006	0.02	
5/30/2019 13:27			0.006	0.02	
5/30/2019 13:28			0.006	0.019	
5/30/2019 13:29			0.006	0.02	
5/30/2019 13:30	12.6	103.2	0.006	0.02	42.43308;-76.49667
5/30/2019 13:31			0.006	0.019	
5/30/2019 13:32			0.006	0.019	
5/30/2019 13:33			0.006	0.02	
5/30/2019 13:34			0.006	0.019	
5/30/2019 13:35	12.6	90.1	0.006	0.019	42.43315;-76.49675
5/30/2019 13:36			0.006	0.018	
5/30/2019 13:37			0.006	0.019	
5/30/2019 13:38			0.006	0.019	
5/30/2019 13:39			0.006	0.019	
5/30/2019 13:40	12.6	94.1	0.006	0.019	42.4332;-76.49677
5/30/2019 13:41			0.006	0.02	
5/30/2019 13:42			0.006	0.019	
5/30/2019 13:43			0.006	0.019	
5/30/2019 13:44			0.006	0.019	
5/30/2019 13:45	12.6	100.2	0.006	0.049	42.43321;-76.49675
5/30/2019 13:46			0.006	0.019	
5/30/2019 13:47			0.006	0.019	
5/30/2019 13:48			0.007	0.019	
5/30/2019 13:49			0.007	0.02	
5/30/2019 13:50	12.6	107.3	0.007	0.019	42.43321;-76.49667
5/30/2019 13:51			0.007	0.019	
5/30/2019 13:52			0.007	0.019	
5/30/2019 13:53			0.007	0.019	
5/30/2019 13:54			0.007	0.019	
5/30/2019 13:55	12.6	88.1	0.007	0.018	42.43316;-76.49654
5/30/2019 13:56			0.007	0.019	
5/30/2019 13:57			0.007	0.02	
5/30/2019 13:58			0.007	0.021	
5/30/2019 13:59			0.007	0.019	
5/30/2019 14:00	12.6	93.1	0.007	0.019	42.43316;-76.49664
5/30/2019 14:01			0.007	0.019	
5/30/2019 14:02			0.007	0.025	
5/30/2019 14:03			0.007	0.018	
5/30/2019 14:04			0.007	0.019	
5/30/2019 14:05	12.6	90.1	0.007	0.018	42.43317;-76.49667
5/30/2019 14:06			0.007	0.018	
5/30/2019 14:07			0.007	0.019	
5/30/2019 14:08			0.007	0.018	
5/30/2019 14:09			0.007	0.019	
5/30/2019 14:10	12.6	107.3	0.007	0.02	42.4332;-76.49671
5/30/2019 14:11			0.007	0.028	
5/30/2019 14:12			0.007	0.021	
5/30/2019 14:13			0.008	0.021	
5/30/2019 14:14			0.008	0.017	
5/30/2019 14:15	12.6	114.4	0.008	0.017	42.43322;-76.49675
5/30/2019 14:16			0.008	0.025	
5/30/2019 14:17			0.008	0.017	
5/30/2019 14:18			0.008	0.017	
5/30/2019 14:19			0.008	0.021	
5/30/2019 14:20	12.6	98.2	0.008	0.019	42.4332;-76.49671
5/30/2019 14:21			0.008	0.017	
5/30/2019 14:22			0.008	0.017	
5/30/2019 14:23			0.008	0.017	
5/30/2019 14:24			0.008	0.017	
5/30/2019 14:25	12.6	90.1	0.008	0.017	42.43321;-76.49673
5/30/2019 14:26			0.008	0.017	
5/30/2019 14:27			0.008	0.016	
5/30/2019 14:28			0.008	0.016	
5/30/2019 14:29			0.008	0.016	
5/30/2019 14:30	12.6	97.2	0.008	0.016	42.4332;-76.49675

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/30/2019 14:31			0.008	0.016	
5/30/2019 14:32			0.008	0.017	
5/30/2019 14:33			0.008	0.016	
5/30/2019 14:34			0.008	0.016	
5/30/2019 14:35	12.6	105.3	0.008	0.016	42.43321;-76.49673
5/30/2019 14:36			0.008	0.016	
5/30/2019 14:37			0.008	0.016	
5/30/2019 14:38			0.008	0.016	
5/30/2019 14:39			0.008	0.016	
5/30/2019 14:40	12.6	102.2	0.008	0.016	42.43324;-76.49677
5/30/2019 14:41			0.009	0.016	
5/30/2019 14:42			0.009	0.016	
5/30/2019 14:43			0.009	0.016	
5/30/2019 14:44			0.009	0.016	
5/30/2019 14:45	12.6	90.1	0.009	0.016	42.43319;-76.49675
5/30/2019 14:46			0.009	0.022	
5/30/2019 14:47			0.009	0.017	
5/30/2019 14:48			0.009	0.016	
5/30/2019 14:49			0.009	0.016	
5/30/2019 14:50	12.6	89.1	0.009	0.016	42.43318;-76.49677
5/30/2019 14:51			0.009	0.016	
5/30/2019 14:52			0.009	0.016	
5/30/2019 14:53			0.009	0.016	
5/30/2019 14:54			0.009	0.016	
5/30/2019 14:55	12.5	92.1	0.009	0.016	42.43324;-76.49669
5/30/2019 14:56			0.009	0.015	
5/30/2019 14:57			0.009	0.027	
5/30/2019 14:58			0.009	0.017	
5/30/2019 14:59			0.009	0.017	
5/30/2019 15:00	12.5	105.3	0.009	0.017	42.43327;-76.49677
5/30/2019 15:01			0.009	0.016	
5/30/2019 15:02			0.009	0.016	
5/30/2019 15:03			0.009	0.016	
5/30/2019 15:04			0.009	0.016	
5/30/2019 15:05	12.5	90.1	0.009	0.016	42.43338;-76.49671
5/30/2019 15:06			0.009	0.016	
5/30/2019 15:07			0.009	0.016	
5/30/2019 15:08			0.009	0.016	
5/30/2019 15:09			0.01	0.016	
5/30/2019 15:10	12.5	100.2	0.01	0.016	42.43338;-76.49677
5/30/2019 15:11			0.01	0.019	
5/30/2019 15:12			0.01	0.017	
5/30/2019 15:13			0.01	0.016	
5/30/2019 15:14			0.01	0.017	
5/30/2019 15:15	12.5	89.1	0.01	0.017	42.43327;-76.49675
5/30/2019 15:16			0.01	0.016	
5/30/2019 15:17			0.01	0.017	
5/30/2019 15:18			0.01	0.017	
5/30/2019 15:19			0.01	0.016	
5/30/2019 15:20	12.5	93.1	0.01	0.018	42.4332;-76.49688
5/30/2019 15:21			0.01	0.015	
5/30/2019 15:22			0.01	0.016	
5/30/2019 15:23			0.01	0.026	
5/30/2019 15:24			0.01	0.017	
5/30/2019 15:25	12.5	102.2	0.01	0.016	42.43321;-76.49675
5/30/2019 15:26			0.01	0.015	
5/30/2019 15:27			0.01	0.015	
5/30/2019 15:28			0.01	0.016	
5/30/2019 15:29			0.01	0.015	
5/30/2019 15:30	12.5	106.3	0.01	0.015	42.43314;-76.49677
5/30/2019 15:31			0.01	0.018	
5/30/2019 15:32			0.01	0.015	
5/30/2019 15:33			0.01	0.015	
5/30/2019 15:34			0.01	0.015	
5/30/2019 15:35	12.5	89.1	0.01	0.015	42.43311;-76.49669
5/30/2019 15:36			0.01	0.015	
5/30/2019 15:37			0.01	0.015	
5/30/2019 15:38			0.01	0.016	
5/30/2019 15:39			0.011	0.015	
5/30/2019 15:40	12.5	93.1	0.011	0.015	42.43314;-76.49675
5/30/2019 15:41			0.011	0.015	
5/30/2019 15:42			0.011	0.019	
5/30/2019 15:43			0.011	0.015	
5/30/2019 15:44			0.011	0.016	
5/30/2019 15:45	12.5	96.2	0.011	0.015	42.43315;-76.49675
5/30/2019 15:46			0.011	0.015	
5/30/2019 15:47			0.011	0.015	
5/30/2019 15:48			0.011	0.015	
5/30/2019 15:49			0.011	0.015	
5/30/2019 15:50	12.4	91.1	0.011	0.015	42.43312;-76.49673
5/30/2019 15:51			0.011	0.015	
5/30/2019 15:52			0.011	0.015	
5/30/2019 15:53			0.011	0.015	
5/30/2019 15:54			0.011	0.016	
5/30/2019 15:55	12.4	91.1	0.011	0.025	42.43314;-76.49671
5/30/2019 15:56			0.011	0.016	
5/30/2019 15:57			0.011	0.019	
5/30/2019 15:58			0.011	0.024	
5/30/2019 15:59			0.011	0.018	
5/30/2019 16:00	12.4	92.1	0.011	0.016	42.43315;-76.49669
5/30/2019 16:01			0.011	0.015	
5/30/2019 16:02			0.011	0.016	
5/30/2019 16:03			0.011	0.02	
5/30/2019 16:04			0.011	0.017	
5/30/2019 16:05	12.4	93.1	0.011	0.015	42.43319;-76.49671
5/30/2019 16:06			0.011	0.015	
5/30/2019 16:07			0.011	0.015	
5/30/2019 16:08			0.012	0.015	
5/30/2019 16:09			0.012	0.015	
5/30/2019 16:10	12.4	91.1	0.012	0.015	42.43309;-76.49671
5/30/2019 16:11			0.012	0.014	
5/30/2019 16:12			0.012	0.015	
5/30/2019 16:13			0.012	0.016	
5/30/2019 16:14			0.012	0.015	
5/30/2019 16:15	12.4	90.1	0.012	0.015	42.43311;-76.49671
5/30/2019 16:16			0.012	0.015	
5/30/2019 16:17			0.012	0.015	
5/30/2019 16:18			0.012	0.015	
5/30/2019 16:19			0.012	0.015	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/30/2019 16:20	12.4	91.1	0.012	0.015	42.43305;-76.49664
5/30/2019 16:21			0.012	0.015	
5/30/2019 16:22			0.012	0.015	
5/30/2019 16:23			0.012	0.015	
5/30/2019 16:24			0.012	0.015	
5/30/2019 16:25	12.4	89.1	0.012	0.016	42.43314;-76.49671
5/30/2019 16:26			0.012	0.015	
5/30/2019 16:27			0.012	0.015	
5/30/2019 16:28			0.012	0.015	
5/30/2019 16:29			0.012	0.015	
5/30/2019 16:30	12.4	95.1	0.012	0.014	
5/30/2019 16:30					42.4331;-76.49669
5/30/2019 16:31			0.012	0.015	
5/30/2019 16:32			0.012	0.015	
5/30/2019 16:33			0.012	0.015	
5/30/2019 16:34			0.012	0.015	
5/30/2019 16:35	12.4	101.2	0.012	0.015	
5/30/2019 16:35					42.43312;-76.49669
5/30/2019 16:36			0.012	0.015	
5/30/2019 16:37			0.012	0.015	
5/30/2019 16:38			0.012	0.016	
5/30/2019 16:39			0.012	0.017	
5/30/2019 16:40	12.4	91.1	0.013	0.016	
5/30/2019 16:40					42.43316;-76.49671
5/30/2019 16:41			0.013	0.016	
5/30/2019 16:42			0.013	0.015	
5/30/2019 16:43			0.013	0.015	
5/30/2019 16:44			0.013	0.015	
5/30/2019 16:45	12.4	91.1	0.013	0.015	
5/30/2019 16:45					42.43317;-76.49669
5/30/2019 16:46			0.013	0.015	
5/30/2019 16:47			0.013	0.015	
5/30/2019 16:48			0.013	0.015	
5/30/2019 16:49			0.013	0.015	
5/30/2019 16:50	12.4	102.2	0.013	0.015	
5/30/2019 16:50					42.43315;-76.49667
5/30/2019 16:51			0.013	0.015	
5/30/2019 16:52			0.013	0.015	
5/30/2019 16:53			0.013	0.017	
5/30/2019 16:54			0.013	0.018	
5/30/2019 16:55	12.4	106.3	0.013	0.017	
5/30/2019 16:55					42.43315;-76.49669
5/30/2019 16:56			0.013	0.016	
5/30/2019 16:57			0.013	0.015	
5/30/2019 16:58			0.013	0.015	
5/30/2019 16:59			0.013	0.016	
5/30/2019 17:00	12.4	95.1	0.013	0.015	
5/30/2019 17:00					42.43316;-76.49673
5/30/2019 17:01			0.013	0.021	
5/30/2019 17:02			0.013	0.017	
5/30/2019 17:03			0.013	0.017	
5/30/2019 17:04			0.013	0.015	
5/30/2019 17:05	12.4	91.1	0.013	0.017	
5/30/2019 17:05					42.43316;-76.49673
5/30/2019 17:06			0.013	0.018	
5/30/2019 17:07			0.013	0.017	
5/30/2019 17:08			0.013	0.015	
5/30/2019 17:09			0.013	0.015	
5/30/2019 17:10	12.4	92.1	0.014	0.015	
5/30/2019 17:10					42.43317;-76.49675
5/30/2019 17:11			0.014	0.016	
5/30/2019 17:12			0.014	0.015	
5/30/2019 17:13			0.014	0.016	
5/30/2019 17:14			0.014	0.018	
5/30/2019 17:15	12.4	100.2	0.014	0.02	
5/30/2019 17:15					42.43318;-76.49673
5/30/2019 17:16			0.014	0.021	
5/30/2019 17:17			0.014	0.016	
5/30/2019 17:18			0.014	0.015	
5/30/2019 17:19			0.014	0.017	
5/30/2019 17:20	12.4	93.1	0.014	0.015	
5/30/2019 17:20					42.43318;-76.49675
5/30/2019 17:21			0.014	0.016	
5/30/2019 17:22			0.014	0.015	
5/30/2019 17:23			0.014	0.015	
5/30/2019 17:24			0.014	0.015	
5/30/2019 17:25	12.4	106.3	0.014	0.02	
5/30/2019 17:25					42.43321;-76.49675
5/30/2019 17:26			0.014	0.015	
5/30/2019 17:27			0.014	0.015	
5/30/2019 17:28			0.014	0.028	
5/30/2019 17:29			0.014	0.015	
5/30/2019 17:30	12.4	92.1	0.014	0.023	
5/30/2019 17:30					42.43322;-76.49677
5/30/2019 17:31			0.014	0.015	
5/30/2019 17:32			0.014	0.015	
5/30/2019 17:33			0.014	0.016	
5/30/2019 17:34			0.014	0.015	
5/30/2019 17:35	12.4	102.2	0.014	0.015	
5/30/2019 17:35					42.43324;-76.4968
5/30/2019 17:36			0.014	0.015	
5/30/2019 17:37			0.014	0.015	
5/30/2019 17:38			0.014	0.015	
5/30/2019 17:39			0.015	0.017	
5/30/2019 17:40	12.4	91.1	0.015	0.014	
5/30/2019 17:40					42.43321;-76.49677
5/30/2019 17:41			0.015	0.015	
5/30/2019 17:42			0.015	0.051	
5/30/2019 17:43			0.015	0.033	
5/30/2019 17:44			0.015	0.036	
5/30/2019 17:45	12.3	97.2	0.015	0.025	
5/30/2019 17:45					42.43322;-76.49677
5/30/2019 17:46			0.015	0.028	
5/30/2019 17:47			0.015	0.021	
5/30/2019 17:48			0.015	0.034	
5/30/2019 17:49			0.015	0.025	
5/30/2019 17:50	12.3	91.1	0.015	0.022	
5/30/2019 17:50					42.4332;-76.49675
5/30/2019 17:51			0.015	0.025	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/30/2019 17:52			0.015	0.042	
5/30/2019 17:53			0.015	0.029	
5/30/2019 17:54			0.015	0.027	
5/30/2019 17:55	12.3	92.1	0.015	0.02	
5/30/2019 17:55					42.43324;-76.49669
5/30/2019 17:56			0.015	0.023	
5/30/2019 17:57			0.016	0.024	
5/30/2019 17:58			0.016	0.022	
5/30/2019 17:59			0.016	0.031	
5/30/2019 18:00	12.2	98.2	0.016	0.021	
5/30/2019 18:00					42.43327;-76.49677
5/30/2019 18:01			0.016	0.02	
5/30/2019 18:02			0.016	0.02	
5/30/2019 18:03			0.016	0.02	
5/30/2019 18:04			0.016	0.026	
5/30/2019 18:05	12.2	91.1	0.016	0.029	
5/30/2019 18:05					42.43324;-76.49671
5/30/2019 18:06			0.016	0.031	
5/30/2019 18:07			0.016	0.024	
5/30/2019 18:08			0.016	0.022	
5/30/2019 18:09			0.016	0.026	
5/30/2019 18:10	12.2	93.1	0.016	0.025	
5/30/2019 18:10					42.43324;-76.49673
5/30/2019 18:11			0.016	0.05	
5/30/2019 18:12			0.016	0.036	
5/30/2019 18:13			0.016	0.026	
5/30/2019 18:14			0.016	0.022	
5/30/2019 18:15	12.2	93.1	0.017	0.025	
5/30/2019 18:15					42.43324;-76.49671
5/30/2019 18:16			0.017	0.024	
5/30/2019 18:17			0.017	0.037	
5/30/2019 18:18			0.017	0.037	
5/30/2019 18:19			0.017	0.025	
5/30/2019 18:20	12.2	90.1	0.017	0.046	
5/30/2019 18:20					42.43325;-76.49671
5/30/2019 18:21			0.017	0.023	
5/30/2019 18:22			0.017	0.028	
5/30/2019 18:23			0.017	0.026	
5/30/2019 18:24			0.017	0.02	
5/30/2019 18:25	12.2	116.4	0.017	0.021	
5/30/2019 18:25					42.43329;-76.49677
5/30/2019 18:26			0.017	0.037	
5/30/2019 18:27			0.017	0.027	
5/30/2019 18:28			0.017	0.025	
5/30/2019 18:29			0.017	0.027	
5/30/2019 18:30	12.2	94.1	0.017	0.037	
5/30/2019 18:30					42.43322;-76.49673
5/30/2019 18:31			0.017	0.022	
5/30/2019 18:32			0.018	0.022	
5/30/2019 18:33			0.018	0.029	
5/30/2019 18:34			0.018	0.023	
5/30/2019 18:35	12.2	96.2	0.018	0.028	
5/30/2019 18:35					42.43292;-76.49656
5/30/2019 18:36			0.018	0.031	
5/30/2019 18:37			0.018	0.022	
5/30/2019 18:38			0.018	0.024	
5/30/2019 18:39			0.018	0.019	
5/30/2019 18:40	12.2	104.3	0.018	0.02	
5/30/2019 18:40					42.4332;-76.49675
5/30/2019 18:41			0.018	0.022	
5/30/2019 18:42			0.018	0.022	
5/30/2019 18:43			0.018	0.021	
5/30/2019 18:44			0.018	0.018	
5/30/2019 18:45	12.2	95.1	0.018	0.021	
5/30/2019 18:45					42.43322;-76.49677
5/30/2019 18:46			0.018	0.021	
5/30/2019 18:47			0.018	0.021	
5/30/2019 18:48			0.018	0.033	
5/30/2019 18:49			0.018	0.019	
5/30/2019 18:50	12.2	90.1	0.018	0.02	
5/30/2019 18:50					42.4332;-76.49673
5/30/2019 18:51			0.018	0.027	
5/30/2019 18:52			0.019	0.023	
5/30/2019 18:53			0.019	0.024	
5/30/2019 18:54			0.019	0.02	
5/30/2019 18:55	12.2	102.2	0.019	0.021	
5/30/2019 18:55					42.43339;-76.49673
5/30/2019 18:56			0.019	0.023	
5/30/2019 18:57			0.019	0.023	
5/30/2019 18:58			0.019	0.046	
5/30/2019 18:59			0.019	0.024	
5/30/2019 19:00	12.2	93.1	0.019	0.019	
5/30/2019 19:00					42.43332;-76.49671
5/30/2019 19:01			0.019	0.035	
5/30/2019 19:02			0.019	0.021	
5/30/2019 19:03			0.019	0.023	
5/30/2019 19:04			0.019	0.025	
5/30/2019 19:05	12.1	95.1	0.019	0.07	
5/30/2019 19:05					42.43328;-76.49667
5/30/2019 19:06			0.019	0.049	
5/30/2019 19:07			0.019	0.032	
5/30/2019 19:08			0.02	0.066	
5/30/2019 19:09			0.02	0.035	
5/30/2019 19:10	12.1	109.3	0.02	0.022	
5/30/2019 19:10					42.4333;-76.49669
5/30/2019 19:11			0.02	0.022	
5/30/2019 19:12			0.02	0.03	
5/30/2019 19:13			0.02	0.025	
5/30/2019 19:14			0.02	0.042	
5/30/2019 19:15	12.1	99.2	0.02	0.029	
5/30/2019 19:15					42.43328;-76.49671
5/30/2019 19:16			0.02	0.028	
5/30/2019 19:17			0.02	0.024	
5/30/2019 19:18			0.02	0.022	
5/30/2019 19:19			0.02	0.089	
5/30/2019 19:20	12.1	98.2	0.02	0.056	
5/30/2019 19:20					42.43324;-76.49669
5/30/2019 19:21			0.021	0.033	
5/30/2019 19:22			0.021	0.069	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/30/2019 19:23			0.021	0.026	
5/30/2019 19:24			0.021	0.023	
5/30/2019 19:25	12.1	92.1	0.021	0.024	
5/30/2019 19:25					42.43327;-76.49669
5/30/2019 19:26			0.021	0.021	
5/30/2019 19:27			0.021	0.034	
5/30/2019 19:28			0.021	0.023	
5/30/2019 19:29			0.021	0.022	
5/30/2019 19:30	12.1	100.2	0.021	0.02	
5/30/2019 19:30					42.43361;-76.49671
5/30/2019 19:31			0.021	0.022	
5/30/2019 19:32			0.021	0.023	
5/30/2019 19:33			0.021	0.024	
5/30/2019 19:34			0.021	0.027	
5/30/2019 19:35	12.1	92.1	0.021	0.026	
5/30/2019 19:35					42.43325;-76.49671
5/30/2019 19:36			0.021	0.027	
5/30/2019 19:37			0.021	0.027	
5/30/2019 19:38			0.022	0.026	
5/30/2019 19:39			0.022	0.039	
5/30/2019 19:40	12.1	93.1	0.022	0.047	
5/30/2019 19:40					42.43336;-76.49658
5/30/2019 19:41			0.022	0.029	
5/30/2019 19:42			0.022	0.023	
5/30/2019 19:43			0.022	0.02	
5/30/2019 19:44			0.022	0.034	
5/30/2019 19:45	12.1	94.1	0.022	0.021	
5/30/2019 19:46			0.022	0.02	
5/30/2019 19:47			0.022	0.02	
5/30/2019 19:48			0.022	0.02	
5/30/2019 19:49			0.022	0.02	
5/30/2019 19:50	12.1	92.1	0.022	0.021	
5/30/2019 19:50					42.43299;-76.49673
5/30/2019 19:51			0.022	0.022	
5/30/2019 19:52			0.022	0.02	
5/30/2019 19:53			0.022	0.022	
5/30/2019 19:54			0.022	0.025	
5/30/2019 19:55	12.1	92.1	0.022	0.024	
5/30/2019 19:55					42.43325;-76.49669
5/30/2019 19:56			0.022	0.02	
5/30/2019 19:57			0.022	0.022	
5/30/2019 19:58			0.023	0.026	
5/30/2019 19:59			0.023	0.021	
5/30/2019 20:00	12.1	96.2	0.023	0.022	
5/30/2019 20:00					42.43324;-76.49669
5/30/2019 20:01			0.023	0.034	
5/30/2019 20:02			0.023	0.023	
5/30/2019 20:03			0.023	0.021	
5/30/2019 20:04			0.023	0.021	
5/30/2019 20:05	12.1	93.1	0.023	0.021	
5/30/2019 20:05					42.43324;-76.49671
5/30/2019 20:06			0.023	0.022	
5/30/2019 20:07			0.023	0.022	
5/30/2019 20:08			0.023	0.023	
5/30/2019 20:09			0.023	0.024	
5/30/2019 20:10	12.1	91.1	0.023	0.023	
5/30/2019 20:10					42.43321;-76.49675
5/30/2019 20:11			0.023	0.14	
5/30/2019 20:12			0.023	0.063	
5/30/2019 20:13			0.023	0.03	
5/30/2019 20:14			0.023	0.05	
5/30/2019 20:15	12.1	100.2	0.023	0.071	
5/30/2019 20:15					42.43324;-76.49673
5/30/2019 20:16			0.023	0.035	
5/30/2019 20:17			0.023	0.028	
5/30/2019 20:18			0.023	0.025	
5/30/2019 20:19			0.023	0.024	
5/30/2019 20:20	12.1	109.3	0.023	0.021	
5/30/2019 20:20					42.43324;-76.49675
5/30/2019 20:21			0.023	0.022	
5/30/2019 20:22			0.023	0.021	
5/30/2019 20:23			0.023	0.022	
5/30/2019 20:24			0.023	0.023	
5/30/2019 20:25	12	92.1	0.023	0.022	
5/30/2019 20:25					42.43334;-76.4968
5/30/2019 20:26			0.023	0.021	
5/30/2019 20:27			0.023	0.044	
5/30/2019 20:28			0.023	0.059	
5/30/2019 20:29			0.023	0.054	
5/30/2019 20:30	12.1	100.2	0.023	0.053	
5/30/2019 20:30					42.43329;-76.49664
5/30/2019 20:31			0.023	0.047	
5/30/2019 20:32			0.023	0.041	
5/30/2019 20:33			0.023	0.03	
5/30/2019 20:34			0.023	0.022	
5/30/2019 20:35	12	98.2	0.023	0.021	
5/30/2019 20:35					42.43331;-76.49671
5/30/2019 20:36			0.023	0.02	
5/30/2019 20:37			0.023	0.027	
5/30/2019 20:38			0.023	0.022	
5/30/2019 20:39			0.023	0.022	
5/30/2019 20:40	12	94.1	0.023	0.021	
5/30/2019 20:40					42.43321;-76.49673
5/30/2019 20:41			0.023	0.021	
5/30/2019 20:42			0.023	0.02	
5/30/2019 20:43			0.023	0.02	
5/30/2019 20:44			0.023	0.02	
5/30/2019 20:45	12	97.2	0.023	0.023	
5/30/2019 20:45					42.43328;-76.49673
5/30/2019 20:46			0.023	0.029	
5/30/2019 20:47			0.023	0.046	
5/30/2019 20:48			0.023	0.025	
5/31/2019 12:10	12.4	141.7			
5/31/2019 12:13			0		
5/31/2019 12:14			0	0.046	
5/31/2019 12:15	12.4	91.1	0	0.048	
5/31/2019 12:15					42.43329;-76.49694
5/31/2019 12:16			0	0.046	
5/31/2019 12:17			0	0.046	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/31/2019 12:18			0	0.046	
5/31/2019 12:19			0	0.045	
5/31/2019 12:20	12.3	100.2	0	0.044	
5/31/2019 12:20					42.43315;-76.4969
5/31/2019 12:21			0	0.043	
5/31/2019 12:22			0	0.044	
5/31/2019 12:23			0	0.045	
5/31/2019 12:24			0	0.044	
5/31/2019 12:25	12.3	125.5	0	0.045	
5/31/2019 12:25					42.43308;-76.49686
5/31/2019 12:26			0	0.044	
5/31/2019 12:27			0	0.043	
5/31/2019 12:28			0	0.042	
5/31/2019 12:29			0.001	0.042	
5/31/2019 12:30	12.3	100.2	0.002	0.042	
5/31/2019 12:30					42.43309;-76.49683
5/31/2019 12:31			0.002	0.044	
5/31/2019 12:32			0.002	0.045	
5/31/2019 12:33			0.002	0.045	
5/31/2019 12:34			0.002	0.044	
5/31/2019 12:35	12.4	90.1	0.002	0.044	
5/31/2019 12:35					42.43302;-76.4968
5/31/2019 12:36			0.002	0.044	
5/31/2019 12:37			0.002	0.042	
5/31/2019 12:38			0.002	0.043	
5/31/2019 12:39			0.002	0.043	
5/31/2019 12:40	12.3	93.1	0.002	0.044	
5/31/2019 12:40					42.43308;-76.49683
5/31/2019 12:41			0.003	0.044	
5/31/2019 12:42			0.003	0.043	
5/31/2019 12:43			0.003	0.044	
5/31/2019 12:44			0.003	0.043	
5/31/2019 12:45	12.3	92.1	0.003	0.043	
5/31/2019 12:45					42.43307;-76.49688
5/31/2019 12:46			0.003	0.043	
5/31/2019 12:47			0.003	0.043	
5/31/2019 12:48			0.003	0.043	
5/31/2019 12:49			0.003	0.043	
5/31/2019 12:50	12.3	103.2	0.003	0.044	
5/31/2019 12:50					42.43306;-76.4969
5/31/2019 12:51			0.003	0.043	
5/31/2019 12:52			0.004	0.045	
5/31/2019 12:53			0.004	0.045	
5/31/2019 12:54			0.004	0.044	
5/31/2019 12:55	12.3	97.2	0.004	0.044	
5/31/2019 12:55					42.43308;-76.49686
5/31/2019 12:56			0.004	0.044	
5/31/2019 12:57			0.004	0.045	
5/31/2019 12:58			0.004	0.045	
5/31/2019 12:59			0.004	0.044	
5/31/2019 13:00	12.3	91.1	0.004	0.045	
5/31/2019 13:00					42.43325;-76.49694
5/31/2019 13:01			0.004	0.044	
5/31/2019 13:02			0.004	0.044	
5/31/2019 13:03			0.005	0.045	
5/31/2019 13:04			0.005	0.044	
5/31/2019 13:05	12.3	91.1	0.005	0.044	
5/31/2019 13:05					42.43311;-76.4968
5/31/2019 13:06			0.005	0.044	
5/31/2019 13:07			0.005	0.044	
5/31/2019 13:08			0.005	0.045	
5/31/2019 13:09			0.005	0.045	
5/31/2019 13:10	12.3	101.2	0.005	0.045	
5/31/2019 13:10					42.43305;-76.49682
5/31/2019 13:11			0.005	0.045	
5/31/2019 13:12			0.005	0.045	
5/31/2019 13:13			0.006	0.044	
5/31/2019 13:14			0.006	0.045	
5/31/2019 13:15	12.3	90.1	0.006	0.048	
5/31/2019 13:15					42.43307;-76.49673
5/31/2019 13:16			0.006	0.048	
5/31/2019 13:17			0.006	0.048	
5/31/2019 13:18			0.006	0.048	
5/31/2019 13:19			0.006	0.047	
5/31/2019 13:20	12.3	90.1	0.006	0.046	
5/31/2019 13:20					42.43309;-76.49673
5/31/2019 13:21			0.006	0.045	
5/31/2019 13:22			0.006	0.045	
5/31/2019 13:23			0.006	0.045	
5/31/2019 13:24			0.007	0.045	
5/31/2019 13:25	12.3	100.2	0.007	0.045	
5/31/2019 13:25					42.43312;-76.49675
5/31/2019 13:26			0.007	0.045	
5/31/2019 13:27			0.007	0.044	
5/31/2019 13:28			0.007	0.044	
5/31/2019 13:29			0.007	0.044	
5/31/2019 13:30	12.3	103.2	0.007	0.045	
5/31/2019 13:30					42.43306;-76.49683
5/31/2019 13:31			0.007	0.044	
5/31/2019 13:32			0.007	0.043	
5/31/2019 13:33			0.007	0.043	
5/31/2019 13:34			0.007	0.043	
5/31/2019 13:35	12.3	91.1	0.008	0.043	
5/31/2019 13:35					42.43312;-76.49682
5/31/2019 13:36			0.008	0.042	
5/31/2019 13:37			0.008	0.043	
5/31/2019 13:38			0.008	0.043	
5/31/2019 13:39			0.008	0.043	
5/31/2019 13:40	12.3	98.2	0.008	0.043	
5/31/2019 13:40					42.43316;-76.49682
5/31/2019 13:41			0.008	0.043	
5/31/2019 13:42			0.008	0.042	
5/31/2019 13:43			0.008	0.043	
5/31/2019 13:44			0.008	0.043	
5/31/2019 13:45	12.3	113.4	0.008	0.043	
5/31/2019 13:45					42.43315;-76.49675
5/31/2019 13:46			0.009	0.043	
5/31/2019 13:47			0.009	0.042	
5/31/2019 13:48			0.009	0.043	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/31/2019 13:49			0.009	0.043	
5/31/2019 13:50	12.3	92.1	0.009	0.043	
5/31/2019 13:50					42.43303;-76.49658
5/31/2019 13:51			0.009	0.042	
5/31/2019 13:52			0.009	0.042	
5/31/2019 13:53			0.009	0.042	
5/31/2019 13:54			0.009	0.043	
5/31/2019 13:55	12.3	102.2	0.009	0.045	
5/31/2019 13:55					42.43307;-76.49673
5/31/2019 13:56			0.009	0.046	
5/31/2019 13:57			0.01	0.042	
5/31/2019 13:58			0.01	0.043	
5/31/2019 13:59			0.01	0.043	
5/31/2019 14:00	12.3	91.1	0.01	0.043	
5/31/2019 14:00					42.43314;-76.4968
5/31/2019 14:01			0.01	0.042	
5/31/2019 14:02			0.01	0.042	
5/31/2019 14:03			0.01	0.043	
5/31/2019 14:04			0.01	0.042	
5/31/2019 14:05	12.3	93.1	0.01	0.042	
5/31/2019 14:05					42.43312;-76.49683
5/31/2019 14:06			0.01	0.042	
5/31/2019 14:07			0.01	0.042	
5/31/2019 14:08			0.011	0.042	
5/31/2019 14:09			0.011	0.041	
5/31/2019 14:10	12.3	91.1	0.011	0.042	
5/31/2019 14:10					42.43311;-76.49682
5/31/2019 14:11			0.011	0.043	
5/31/2019 14:12			0.011	0.042	
5/31/2019 14:13			0.011	0.042	
5/31/2019 14:14			0.011	0.042	
5/31/2019 14:15	12.3	100.2	0.011	0.043	
5/31/2019 14:15					42.43314;-76.49683
5/31/2019 14:16			0.011	0.044	
5/31/2019 14:17			0.011	0.043	
5/31/2019 14:18			0.011	0.043	
5/31/2019 14:19			0.012	0.054	
5/31/2019 14:20	12.3	95.1	0.012	0.043	
5/31/2019 14:20					42.4331;-76.49682
5/31/2019 14:21			0.012	0.042	
5/31/2019 14:22			0.012	0.043	
5/31/2019 14:23			0.012	0.042	
5/31/2019 14:24			0.012	0.042	
5/31/2019 14:25	12.2	94.1	0.012	0.042	
5/31/2019 14:25					42.4312;-76.49686
5/31/2019 14:26			0.012	0.043	
5/31/2019 14:27			0.012	0.042	
5/31/2019 14:28			0.012	0.041	
5/31/2019 14:29			0.012	0.042	
5/31/2019 14:30	12.3	97.2	0.012	0.043	
5/31/2019 14:30					42.4331;-76.49683
5/31/2019 14:31			0.013	0.043	
5/31/2019 14:32			0.013	0.042	
5/31/2019 14:33			0.013	0.042	
5/31/2019 14:34			0.013	0.042	
5/31/2019 14:35	12.3	92.1	0.013	0.042	
5/31/2019 14:35					42.4312;-76.49683
5/31/2019 14:36			0.013	0.041	
5/31/2019 14:37			0.013	0.043	
5/31/2019 14:38			0.013	0.042	
5/31/2019 14:39			0.013	0.042	
5/31/2019 14:40	12.3	111.3	0.013	0.043	
5/31/2019 14:40					42.4311;-76.49683
5/31/2019 14:41			0.013	0.041	
5/31/2019 14:42			0.014	0.041	
5/31/2019 14:43			0.014	0.043	
5/31/2019 14:44			0.014	0.043	
5/31/2019 14:45	12.3	96.2	0.014	0.042	
5/31/2019 14:45					42.4312;-76.49686
5/31/2019 14:46			0.014	0.042	
5/31/2019 14:47			0.014	0.042	
5/31/2019 14:48			0.014	0.042	
5/31/2019 14:49			0.014	0.042	
5/31/2019 14:50	12.3	93.1	0.014	0.042	
5/31/2019 14:50					42.43314;-76.49683
5/31/2019 14:51			0.014	0.041	
5/31/2019 14:52			0.014	0.041	
5/31/2019 14:53			0.014	0.041	
5/31/2019 14:54			0.015	0.04	
5/31/2019 14:55	12.3	103.2	0.015	0.04	
5/31/2019 14:55					42.43316;-76.49686
5/31/2019 14:56			0.015	0.04	
5/31/2019 14:57			0.015	0.039	
5/31/2019 14:58			0.015	0.04	
5/31/2019 14:59			0.015	0.041	
5/31/2019 15:00	12.3	92.1	0.015	0.041	
5/31/2019 15:00					42.4331;-76.49693
5/31/2019 15:01			0.015	0.041	
5/31/2019 15:02			0.015	0.041	
5/31/2019 15:03			0.015	0.041	
5/31/2019 15:04			0.015	0.04	
5/31/2019 15:05	12.3	90.1	0.015	0.04	
5/31/2019 15:05					42.43318;-76.49688
5/31/2019 15:06			0.016	0.041	
5/31/2019 15:07			0.016	0.04	
5/31/2019 15:08			0.016	0.043	
5/31/2019 15:09			0.016	0.04	
5/31/2019 15:10	12.3	96.2	0.016	0.039	
5/31/2019 15:10					42.43321;-76.49688
5/31/2019 15:11			0.016	0.039	
5/31/2019 15:12			0.016	0.039	
5/31/2019 15:13			0.016	0.04	
5/31/2019 15:14			0.016	0.04	
5/31/2019 15:15	12.2	101.2	0.016	0.041	
5/31/2019 15:15					42.43316;-76.49686
5/31/2019 15:16			0.016	0.041	
5/31/2019 15:17			0.016	0.039	
5/31/2019 15:18			0.017	0.04	
5/31/2019 15:19			0.017	0.04	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/31/2019 15:20	12.3	101.2	0.017	0.041	
5/31/2019 15:20					42.43314;-76.49677
5/31/2019 15:21			0.017	0.04	
5/31/2019 15:22			0.017	0.041	
5/31/2019 15:23			0.017	0.04	
5/31/2019 15:24			0.017	0.04	
5/31/2019 15:25	12.3	98.2	0.017	0.039	
5/31/2019 15:25					42.43306;-76.49682
5/31/2019 15:26			0.017	0.039	
5/31/2019 15:27			0.017	0.039	
5/31/2019 15:28			0.017	0.039	
5/31/2019 15:29			0.017	0.039	
5/31/2019 15:30	12.3	97.2	0.018	0.039	
5/31/2019 15:30					42.43309;-76.49675
5/31/2019 15:31			0.018	0.039	
5/31/2019 15:32			0.018	0.05	
5/31/2019 15:33			0.018	0.04	
5/31/2019 15:34			0.018	0.04	
5/31/2019 15:35	12.2	95.1	0.018	0.039	
5/31/2019 15:35					42.43301;-76.49682
5/31/2019 15:36			0.018	0.039	
5/31/2019 15:37			0.018	0.04	
5/31/2019 15:38			0.018	0.041	
5/31/2019 15:39			0.018	0.041	
5/31/2019 15:40	12.3	95.1	0.018	0.04	
5/31/2019 15:40					42.43296;-76.49686
5/31/2019 15:41			0.018	0.04	
5/31/2019 15:42			0.019	0.04	
5/31/2019 15:43			0.019	0.039	
5/31/2019 15:44			0.019	0.04	
5/31/2019 15:45	12.3	93.1	0.019	0.04	
5/31/2019 15:45					42.43317;-76.49682
5/31/2019 15:46			0.019	0.04	
5/31/2019 15:47			0.019	0.039	
5/31/2019 15:48			0.019	0.04	
5/31/2019 15:49			0.019	0.04	
5/31/2019 15:50	12.2	103.2	0.019	0.04	
5/31/2019 15:50					42.43302;-76.49677
5/31/2019 15:51			0.019	0.04	
5/31/2019 15:52			0.019	0.041	
5/31/2019 15:53			0.019	0.04	
5/31/2019 15:54			0.02	0.04	
5/31/2019 15:55	12.3	92.1	0.02	0.041	
5/31/2019 15:55					42.43306;-76.49667
5/31/2019 15:56			0.02	0.04	
5/31/2019 15:57			0.02	0.04	
5/31/2019 15:58			0.02	0.04	
5/31/2019 15:59			0.02	0.04	
5/31/2019 16:00	12.2	96.2	0.02	0.046	
5/31/2019 16:00					42.43305;-76.49682
5/31/2019 16:01			0.02	0.042	
5/31/2019 16:02			0.02	0.04	
5/31/2019 16:03			0.02	0.039	
5/31/2019 16:04			0.02	0.04	
5/31/2019 16:05	12.2	91.1	0.021	0.04	
5/31/2019 16:05					42.43305;-76.49682
5/31/2019 16:06			0.021	0.039	
5/31/2019 16:07			0.021	0.04	
5/31/2019 16:08			0.021	0.04	
5/31/2019 16:09			0.021	0.04	
5/31/2019 16:10	12.3	91.1	0.021	0.04	
5/31/2019 16:10					42.43308;-76.49677
5/31/2019 16:11			0.021	0.04	
5/31/2019 16:12			0.021	0.04	
5/31/2019 16:13			0.021	0.04	
5/31/2019 16:14			0.021	0.041	
5/31/2019 16:15	12.2	103.2	0.021	0.04	
5/31/2019 16:15					42.43309;-76.49682
5/31/2019 16:16			0.021	0.04	
5/31/2019 16:17			0.022	0.04	
5/31/2019 16:18			0.022	0.039	
5/31/2019 16:19			0.022	0.04	
5/31/2019 16:20	12.2	92.1	0.022	0.04	
5/31/2019 16:20					42.43299;-76.49675
5/31/2019 16:21			0.022	0.039	
5/31/2019 16:22			0.022	0.04	
5/31/2019 16:23			0.022	0.039	
5/31/2019 16:24			0.022	0.041	
5/31/2019 16:25	12.2	96.2	0.022	0.04	
5/31/2019 16:25					42.43298;-76.4968
5/31/2019 16:26			0.022	0.039	
5/31/2019 16:27			0.022	0.039	
5/31/2019 16:28			0.022	0.039	
5/31/2019 16:29			0.022	0.04	
5/31/2019 16:30	12.2	92.1	0.023	0.112	
5/31/2019 16:30					42.43303;-76.49675
5/31/2019 16:31			0.023	0.04	
5/31/2019 16:32			0.023	0.039	
5/31/2019 16:33			0.023	0.039	
5/31/2019 16:34			0.023	0.038	
5/31/2019 16:35	12.2	96.2	0.023	0.038	
5/31/2019 16:35					42.43306;-76.49682
5/31/2019 16:36			0.023	0.039	
5/31/2019 16:37			0.023	0.038	
5/31/2019 16:38			0.023	0.038	
5/31/2019 16:39			0.023	0.038	
5/31/2019 16:40	12.2	113.4	0.024	0.038	
5/31/2019 16:40					42.43296;-76.49675
5/31/2019 16:41			0.024	0.038	
5/31/2019 16:42			0.024	0.039	
5/31/2019 16:43			0.024	0.038	
5/31/2019 16:44			0.024	0.038	
5/31/2019 16:45	12.2	103.2	0.024	0.038	
5/31/2019 16:45					42.4331;-76.4968
5/31/2019 16:46			0.024	0.038	
5/31/2019 16:47			0.024	0.039	
5/31/2019 16:48			0.024	0.039	
5/31/2019 16:49			0.024	0.039	
5/31/2019 16:50	12.2	92.1	0.024	0.039	

Appendix F

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/31/2019 16:50					42.43311;-76.4968
5/31/2019 16:51			0.024	0.038	
6/3/2019 13:59	12.6	110.3			
6/3/2019 13:59					42.43467;-76.4966203
6/3/2019 14:00	12.6	95.1			
6/3/2019 14:01			0	-0.003	
6/3/2019 14:02			0	-0.009	
6/3/2019 14:03			0	-0.01	
6/3/2019 14:04			0	-0.01	
6/3/2019 14:05	12.5	98.2	0	-0.006	42.43314;-76.49658
6/3/2019 14:06			0	-0.009	
6/3/2019 14:07			0	-0.009	
6/3/2019 14:08			0	-0.01	
6/3/2019 14:09			0	-0.01	
6/3/2019 14:10	12.5	97.2	0	-0.01	42.43316;-76.49669
6/3/2019 14:11			0	-0.01	
6/3/2019 14:12			0	-0.01	
6/3/2019 14:13			0	-0.01	
6/3/2019 14:14			0	-0.011	
6/3/2019 14:15	12.5	91.1	0	-0.009	42.43314;-76.49648
6/3/2019 14:16			0	-0.011	
6/3/2019 14:17			0	-0.01	
6/3/2019 14:18			0	-0.009	
6/3/2019 14:19			0	-0.01	
6/3/2019 14:20	12.5	100.2	0	-0.01	42.43309;-76.49656
6/3/2019 14:21			0	-0.009	
6/3/2019 14:22			0	-0.007	
6/3/2019 14:23			0	-0.008	
6/3/2019 14:24			0	-0.01	
6/3/2019 14:25	12.6	99.2	0	-0.01	42.4331;-76.49651
6/3/2019 14:26			0	-0.01	
6/3/2019 14:27			0	-0.009	
6/3/2019 14:28			0	-0.009	
6/3/2019 14:29			0	-0.009	
6/3/2019 14:30	12.6	95.1	0.001	-0.01	42.43318;-76.49662
6/3/2019 14:31			0.001	-0.01	
6/3/2019 14:32			0.001	-0.01	
6/3/2019 14:33			0.001	-0.01	
6/3/2019 14:34			0.001	-0.009	
6/3/2019 14:35	12.6	94.1	0.001	-0.009	42.43318;-76.49667
6/3/2019 14:36			0.001	-0.009	
6/3/2019 14:37			0.001	-0.005	
6/3/2019 14:38			0.001	-0.01	
6/3/2019 14:39			0.001	-0.007	
6/3/2019 14:40	12.6	97.2	0.001	-0.001	42.43317;-76.49669
6/3/2019 14:41			0.001	-0.008	
6/3/2019 14:42			0.001	-0.009	
6/3/2019 14:43			0.001	-0.007	
6/3/2019 14:44			0.001	-0.01	
6/3/2019 14:45	12.6	100.2	0.001	-0.005	
6/3/2019 14:45					42.43321;-76.49673
6/3/2019 14:46			0.001	-0.008	
6/3/2019 14:47			0.001	-0.008	
6/3/2019 14:48			0.001	-0.007	
6/3/2019 14:49			0.001	-0.006	
6/3/2019 14:50	12.6	99.2	0.001	-0.005	
6/3/2019 14:50					42.43324;-76.49673
6/3/2019 14:51			0.001	-0.007	
6/3/2019 14:52			0.001	-0.008	
6/3/2019 14:53			0.001	-0.008	
6/3/2019 14:54			0.001	-0.009	
6/3/2019 14:55	12.6	97.2	0.001	-0.007	
6/3/2019 14:55					42.43322;-76.49673
6/3/2019 14:56			0.001	-0.007	
6/3/2019 14:57			0.001	-0.008	
6/3/2019 14:58			0.001	-0.008	
6/3/2019 14:59			0.001	-0.008	
6/3/2019 15:00	12.6	89.1	0.001	-0.008	
6/3/2019 15:00					42.43324;-76.49667
6/3/2019 15:01			0.001	-0.007	
6/3/2019 15:02			0.001	-0.007	
6/3/2019 15:03			0.001	-0.006	
6/3/2019 15:04			0.001	-0.008	
6/3/2019 15:05	12.5	95.1	0.001	-0.008	
6/3/2019 15:05					42.43319;-76.49671
6/3/2019 15:06			0.001	-0.008	
6/3/2019 15:07			0.001	-0.007	
6/3/2019 15:08			0.001	-0.008	
6/3/2019 15:09			0.001	-0.007	
6/3/2019 15:10	12.5	90.1	0.001	-0.008	
6/3/2019 15:10					42.43309;-76.49664
6/3/2019 15:11			0.001	-0.007	
6/3/2019 15:12			0.001	-0.007	
6/3/2019 15:13			0.001	-0.008	
6/3/2019 15:14			0.001	-0.008	
6/3/2019 15:15	12.6	90.1	0.001	-0.007	
6/3/2019 15:15					42.43306;-76.49671
6/3/2019 15:16			0.001	-0.008	
6/3/2019 15:17			0.001	-0.008	
6/3/2019 15:18			0.001	-0.007	
6/3/2019 15:19			0.001	-0.007	
6/3/2019 15:20	12.5	93.1	0.001	-0.007	42.43308;-76.49671
6/3/2019 15:21			0.001	-0.006	
6/3/2019 15:22			0.001	-0.006	
6/3/2019 15:23			0.001	-0.007	
6/3/2019 15:24			0.001	-0.006	
6/3/2019 15:25	12.5	97.2	0.001	-0.007	42.43305;-76.49664
6/3/2019 15:26			0.001	-0.007	
6/3/2019 15:27			0.001	-0.007	
6/3/2019 15:28			0.001	-0.007	
6/3/2019 15:29			0.001	-0.008	
6/3/2019 15:30	12.5	89.1	0.001	-0.007	42.4331;-76.49667
6/3/2019 15:31			0.001	-0.007	
6/3/2019 15:32			0.001	-0.007	
6/3/2019 15:33			0.001	-0.006	
6/3/2019 15:34			0.001	-0.005	
6/3/2019 15:35	12.5	93.1	0.001	-0.007	42.4331;-76.49664
6/3/2019 15:36			0.001	-0.004	
6/3/2019 15:37			0.001	-0.007	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/3/2019 15:38			0.001	-0.007	
6/3/2019 15:39			0.001	-0.007	
6/3/2019 15:40	12.5	87	0.001	-0.007	42.43308;-76.49667
6/3/2019 15:41			0.001	-0.005	
6/3/2019 15:42			0.001	-0.005	
6/3/2019 15:43			0.001	-0.006	
6/3/2019 15:44			0.001	-0.007	
6/3/2019 15:45	12.5	95.1	0.001	-0.007	42.43307;-76.49662
6/3/2019 15:46			0.001	-0.005	
6/3/2019 15:47			0.001	-0.003	
6/3/2019 15:48			0.002	-0.007	
6/3/2019 15:49			0.002	-0.007	
6/3/2019 15:50	12.5	90.1	0.002	-0.007	42.43307;-76.49667
6/3/2019 15:51			0.002	-0.006	
6/3/2019 15:52			0.002	-0.005	
6/3/2019 15:53			0.002	-0.006	
6/3/2019 15:54			0.002	-0.006	
6/3/2019 15:55	12.5	90.1	0.002	-0.006	42.43306;-76.4966
6/3/2019 15:56			0.002	-0.007	
6/3/2019 15:57			0.002	-0.006	
6/3/2019 15:58			0.002	-0.006	
6/3/2019 15:59			0.002	-0.006	
6/3/2019 16:00	12.5	89.1	0.002	-0.006	42.4331;-76.49673
6/3/2019 16:01			0.002	-0.006	
6/3/2019 16:02			0.002	-0.004	
6/3/2019 16:03			0.002	-0.003	
6/3/2019 16:04			0.002	-0.006	
6/3/2019 16:05	12.5	99.2	0.002	-0.006	42.43308;-76.49664
6/3/2019 16:06			0.002	-0.005	
6/3/2019 16:07			0.002	-0.005	
6/3/2019 16:08			0.002	-0.004	
6/3/2019 16:09			0.002	-0.005	
6/3/2019 16:10	12.5	94.1	0.002	-0.002	42.43307;-76.49664
6/3/2019 16:11			0.002	0.001	
6/3/2019 16:12			0.002	-0.005	
6/3/2019 16:13			0.002	-0.005	
6/3/2019 16:14			0.002	-0.005	
6/3/2019 16:15	12.5	98.2	0.002	-0.005	42.43305;-76.49664
6/3/2019 16:16			0.002	-0.004	
6/3/2019 16:17			0.002	-0.005	
6/3/2019 16:18			0.002	-0.001	
6/3/2019 16:19			0.002	-0.005	
6/3/2019 16:20	12.5	92.1	0.002	-0.005	
6/3/2019 16:20					42.43308;-76.49664
6/3/2019 16:21			0.002	-0.003	
6/3/2019 16:22			0.002	-0.003	
6/3/2019 16:23			0.002	-0.003	
6/3/2019 16:24			0.002	-0.003	
6/3/2019 16:25	12.5	121.5	0.002	-0.003	42.43311;-76.49662
6/3/2019 16:26			0.002	-0.003	
6/3/2019 16:27			0.002	-0.004	
6/3/2019 16:28			0.002	-0.003	
6/3/2019 16:29			0.002	-0.002	
6/3/2019 16:30	12.5	89.1	0.002	-0.004	42.43305;-76.49658
6/3/2019 16:31			0.002	-0.004	
6/3/2019 16:32			0.002	-0.003	
6/3/2019 16:33			0.002	-0.002	
6/3/2019 16:34			0.002	-0.003	
6/3/2019 16:35	12.5	98.2	0.002	0	42.43308;-76.49662
6/3/2019 16:36			0.002	-0.003	
6/3/2019 16:37			0.002	-0.004	
6/3/2019 16:38			0.002	-0.003	
6/3/2019 16:39			0.002	-0.004	
6/3/2019 16:40	12.5	91.1	0.002	-0.003	42.43312;-76.49658
6/3/2019 16:41			0.002	-0.003	
6/3/2019 16:42			0.002	-0.001	
6/3/2019 16:43			0.002	-0.004	
6/3/2019 16:44			0.002	-0.004	
6/3/2019 16:45	12.5	101.2	0.002	-0.004	42.43312;-76.4966
6/3/2019 16:46			0.002	-0.003	
6/3/2019 16:47			0.002	-0.003	
6/3/2019 16:48			0.002	-0.001	
6/3/2019 16:49			0.002	-0.002	
6/3/2019 16:50	12.5	89.1	0.002	-0.003	42.4331;-76.49656
6/3/2019 16:51			0.002	-0.003	
6/3/2019 16:52			0.002	-0.003	
6/3/2019 16:53			0.002	-0.003	
6/3/2019 16:54			0.002	-0.003	
6/3/2019 16:55	12.5	91.1	0.002	-0.003	42.43309;-76.49658
6/3/2019 16:56			0.002	-0.003	
6/3/2019 16:57			0.002	-0.003	
6/3/2019 16:58			0.002	-0.003	
6/3/2019 16:59			0.002	-0.003	
6/3/2019 17:00	12.5	93.1	0.002	-0.002	42.4331;-76.49662
6/3/2019 17:01			0.002	-0.002	
6/3/2019 17:02			0.002	0	
6/3/2019 17:03			0.002	0	
6/3/2019 17:04			0.002	-0.003	
6/3/2019 17:05	12.5	110.3	0.002	-0.003	42.43315;-76.49662
6/3/2019 17:06			0.002	-0.003	
6/3/2019 17:07			0.002	-0.003	
6/3/2019 17:08			0.002	-0.002	
6/3/2019 17:09			0.002	-0.002	
6/3/2019 17:10	12.5	90.1	0.002	0	42.43314;-76.49662
6/3/2019 17:11			0.002	-0.002	
6/3/2019 17:12			0.002	-0.002	
6/3/2019 17:13			0.002	-0.002	
6/3/2019 17:14			0.002	-0.003	
6/3/2019 17:15	12.4	103.2	0.002	-0.002	42.43319;-76.49662
6/3/2019 17:16			0.002	-0.002	
6/3/2019 17:17			0.002	0	
6/3/2019 17:18			0.002	-0.002	
6/3/2019 17:19			0.002	-0.002	
6/3/2019 17:20	12.5	97.2	0.002	-0.003	42.43322;-76.49671
6/3/2019 17:21			0.002	0	
6/3/2019 17:22			0.002	-0.003	
6/3/2019 17:23			0.002	-0.003	
6/3/2019 17:24			0.002	-0.002	
6/3/2019 17:25	12.5	90.1	0.002	-0.002	42.43318;-76.49664

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/3/2019 17:26			0.002	-0.003	
6/3/2019 17:27			0.002	-0.003	
6/3/2019 17:28			0.002	-0.003	
6/3/2019 17:29			0.002	-0.003	
6/3/2019 17:30	12.4	91.1	0.002	-0.002	42.43317;-76.49664
6/3/2019 17:31			0.002	-0.003	
6/3/2019 17:32			0.002	-0.002	
6/3/2019 17:33			0.002	-0.003	
6/3/2019 17:34			0.002	-0.002	
6/3/2019 17:35	12.4	92.1	0.002	-0.002	42.43319;-76.49667
6/3/2019 17:36			0.002	-0.002	
6/3/2019 17:37			0.002	-0.003	
6/3/2019 17:38			0.002	-0.003	
6/3/2019 17:39			0.002	-0.003	
6/3/2019 17:40	12.4	92.1	0.002	-0.002	42.43317;-76.49664
6/3/2019 17:41			0.002	0.002	
6/3/2019 17:42			0.002	-0.002	
6/3/2019 17:43			0.002	-0.002	
6/3/2019 17:44			0.002	-0.002	
6/3/2019 17:45	12.4	93.1	0.002	-0.002	42.43319;-76.4966
6/3/2019 17:46			0.002	-0.002	
6/3/2019 17:47			0.002	-0.002	
6/3/2019 17:48			0.002	-0.002	
6/3/2019 17:49			0.002	0	
6/3/2019 17:50	12.4	93.1	0.002	-0.002	42.43319;-76.49662
6/3/2019 17:51			0.002	-0.002	
6/3/2019 17:52			0.002	-0.002	
6/3/2019 17:53			0.002	-0.002	
6/3/2019 17:54			0.002	-0.001	
6/3/2019 17:55	12.4	107.3	0.002	-0.002	42.43316;-76.49662
6/3/2019 17:56			0.002	-0.002	
6/3/2019 17:57			0.002	-0.002	
6/3/2019 17:58			0.002	-0.002	
6/3/2019 17:59			0.002	-0.002	
6/3/2019 18:00	12.4	99.2	0.002	-0.002	42.43322;-76.4966
6/3/2019 18:01			0.002	-0.002	
6/3/2019 18:02			0.002	-0.001	
6/3/2019 18:03			0.002	0	
6/3/2019 18:04			0.002	-0.001	
6/3/2019 18:05	12.4	89.1	0.002	0.002	42.43322;-76.49662
6/3/2019 18:06			0.002	0.002	
6/3/2019 18:07			0.002	0	
6/3/2019 18:08			0.002	-0.001	
6/3/2019 18:09			0.002	0	
6/3/2019 18:10	12.4	100.2	0.002	-0.001	42.43307;-76.4966
6/3/2019 18:11			0.002	-0.002	
6/3/2019 18:12			0.002	-0.001	
6/3/2019 18:13			0.002	0.006	
6/3/2019 18:14			0.002	-0.001	
6/3/2019 18:15	12.4	90.1	0.002	-0.001	42.43302;-76.49656
6/3/2019 18:16			0.002	-0.001	
6/3/2019 18:17			0.002	-0.001	
6/3/2019 18:18			0.002	0	
6/3/2019 18:19			0.002	-0.001	
6/3/2019 18:20	12.4	99.2	0.002	-0.001	42.43309;-76.4966
6/3/2019 18:21			0.002	-0.001	
6/3/2019 18:22			0.002	-0.001	
6/3/2019 18:23			0.002	-0.001	
6/3/2019 18:24			0.002	-0.001	
6/3/2019 18:25	12.4	89.1	0.002	-0.001	42.43311;-76.49662
6/3/2019 18:26			0.002	0	
6/3/2019 18:27			0.002	0	
6/3/2019 18:28			0.002	-0.001	
6/3/2019 18:29			0.002	0	
6/3/2019 18:30	12.4	94.1	0.002	0	42.43311;-76.49662
6/3/2019 18:31			0.002	0	
6/3/2019 18:32			0.002	0.004	
6/3/2019 18:33			0.002	0	
6/3/2019 18:34			0.002	0	
6/3/2019 18:35	12.4	102.2	0.002	0	42.43308;-76.49662
6/3/2019 18:36			0.002	0	
6/3/2019 18:37			0.002	0	
6/3/2019 18:38			0.002	0	
6/3/2019 18:39			0.002	0	
6/3/2019 18:40	12.4	98.2	0.002	0	42.43308;-76.49671
6/3/2019 18:41			0.002	0	
6/3/2019 18:42			0.002	0.001	
6/3/2019 18:43			0.002	0	
6/3/2019 18:44			0.002	0	
6/3/2019 18:45	12.4	90.1	0.002	0	42.43307;-76.49667
6/3/2019 18:46			0.002	0.001	
6/3/2019 18:47			0.002	0	
6/3/2019 18:48			0.002	0	
6/3/2019 18:49			0.002	0	
6/3/2019 18:50	12.4	91.1	0.002	0	42.43311;-76.49662
6/3/2019 18:51			0.002	0	
6/3/2019 18:52			0.002	0	
6/3/2019 18:53			0.002	0.001	
6/3/2019 18:54			0.002	0.003	
6/3/2019 18:55	12.4	93.1	0.002	0.002	42.43307;-76.49667
6/3/2019 18:56			0.002	0.001	
6/3/2019 18:57			0.002	0	
6/3/2019 18:58			0.002	0	
6/3/2019 18:59			0.002	0	
6/3/2019 19:00	12.4	116.4	0.002	0	42.43307;-76.49662
6/3/2019 19:01			0.002	0	
6/3/2019 19:02			0.002	0	
6/3/2019 19:03			0.002	0	
6/3/2019 19:04			0.002	0	
6/3/2019 19:05	12.4	98.2	0.002	0	42.43308;-76.49669
6/3/2019 19:06			0.002	0.001	
6/3/2019 19:07			0.002	0.001	
6/3/2019 19:08			0.002	0.002	
6/3/2019 19:09			0.002	0	
6/3/2019 19:10	12.4	100.2	0.002	0.001	42.43306;-76.49669
6/3/2019 19:11			0.002	0	
6/3/2019 19:12			0.002	0	
6/3/2019 19:13			0.002	0	
6/3/2019 19:14			0.002	0	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/3/2019 19:15	12.4	91.1	0.002	0	42.43305;-76.49667
6/3/2019 19:16			0.002	0	
6/3/2019 19:17			0.002	0.002	
6/3/2019 19:18			0.002	0.003	
6/3/2019 19:19			0.002	0	
6/3/2019 19:20	12.4	110.3	0.002	0	42.43306;-76.49662
6/3/2019 19:21			0.002	0	
6/3/2019 19:22			0.002	0	
6/3/2019 19:23			0.002	0.001	
6/3/2019 19:24			0.002	0	
6/3/2019 19:25	12.4	102.2	0.002	0.004	42.43307;-76.4966
6/3/2019 19:26			0.002	0	
6/3/2019 19:27			0.002	0	
6/3/2019 19:28			0.002	0	
6/3/2019 19:29			0.002	0	
6/3/2019 19:30	12.4	92.1	0.002	0.001	42.43309;-76.4966
6/3/2019 19:31			0.002	0.001	
6/3/2019 19:32			0.002	0.001	
6/3/2019 19:33			0.002	0	
6/3/2019 19:34			0.002	0.001	
6/3/2019 19:35	12.4	90.1	0.002	0.001	42.43309;-76.49662
6/3/2019 19:36			0.002	0.001	
6/3/2019 19:37			0.002	0.001	
6/3/2019 19:38			0.002	0.001	
6/3/2019 19:39			0.002	0.001	
6/3/2019 19:40	12.4	91.1	0.002	0.001	42.4331;-76.49667
6/3/2019 19:41			0.002	0.001	
6/3/2019 19:42			0.002	0.001	
6/3/2019 19:43			0.002	0.001	
6/3/2019 19:44			0.002	0.001	
6/3/2019 19:45	12.4	95.1	0.002	0.002	42.43311;-76.49671
6/3/2019 19:46			0.002	0.001	
6/3/2019 19:47			0.002	0.001	
6/3/2019 19:48			0.002	0.001	
6/3/2019 19:49			0.002	0.001	
6/3/2019 19:50	12.4	106.3	0.002	0.001	42.43315;-76.49667
6/3/2019 19:51			0.002	0.001	
6/3/2019 19:52			0.002	0.002	
6/3/2019 19:53			0.002	0.001	
6/3/2019 19:54			0.002	0.002	
6/3/2019 19:55	12.4	95.1	0.002	0.001	42.43319;-76.49669
6/3/2019 19:56			0.002	0.002	
6/3/2019 19:57			0.002	0.009	
6/3/2019 19:58			0.002	0.002	
6/3/2019 19:59			0.002	0.003	
6/3/2019 20:00	12.4	91.1	0.002	0.002	42.43317;-76.49664
6/3/2019 20:01			0.002	0.003	
6/3/2019 20:02			0.002	0.002	
6/3/2019 20:03			0.002	0.002	
6/3/2019 20:04			0.002	0.001	
6/3/2019 20:05	12.3	92.1	0.002	0.003	42.43322;-76.49667
6/3/2019 20:06			0.002	0.005	
6/3/2019 20:07			0.002	0.002	
6/3/2019 20:08			0.002	0.003	
6/3/2019 20:09			0.002	0.003	
6/3/2019 20:10	12.4	91.1	0.002	0.006	42.43321;-76.49664
6/3/2019 20:11			0.002	0.003	
6/3/2019 20:12			0.002	0.003	
6/3/2019 20:13			0.002	0.003	
6/3/2019 20:14			0.002	0.003	
6/3/2019 20:15	12.4	96.2	0.002	0.003	42.43328;-76.49667
6/3/2019 20:16			0.002	0.003	
6/3/2019 20:17			0.002	0.003	
6/3/2019 20:18			0.002	0.004	
6/3/2019 20:19			0.002	0.007	
6/3/2019 20:20	12.2	95.1	0.002	0.017	42.43269;-76.49693
6/5/2019 13:49	12.7	128.6			
6/5/2019 13:49					42.434485099999996;-76.4964784
6/5/2019 13:50	12.7	89.1			
6/5/2019 13:51			0		
6/5/2019 13:52			0	0.043	
6/5/2019 13:53			0	0.054	
6/5/2019 13:54			0	0.042	
6/5/2019 13:55	12.6	94.1	0	0.042	
6/5/2019 13:55					42.4331;-76.49667
6/5/2019 13:56			0	0.041	
6/5/2019 13:57			0	0.045	
6/5/2019 13:58			0	0.041	
6/5/2019 13:59			0	0.039	
6/5/2019 14:00	12.6	94.1	0	0.04	
6/5/2019 14:00					42.43311;-76.4966
6/5/2019 14:01			0	0.039	
6/5/2019 14:02			0	0.042	
6/5/2019 14:03			0	0.042	
6/5/2019 14:04			0	0.04	
6/5/2019 14:05	12.6	96.2	0	0.039	
6/5/2019 14:05					42.43311;-76.49669
6/5/2019 14:06			0	0.039	
6/5/2019 14:07			0.001	0.045	
6/5/2019 14:08			0.001	0.039	
6/5/2019 14:09			0.002	0.045	
6/5/2019 14:10	12.6	90.1	0.002	0.042	
6/5/2019 14:10					42.43318;-76.49664
6/5/2019 14:11			0.002	0.038	
6/5/2019 14:12			0.002	0.04	
6/5/2019 14:13			0.002	0.037	
6/5/2019 14:14			0.002	0.037	
6/5/2019 14:15	12.6	96.2	0.002	0.036	
6/5/2019 14:15					42.43314;-76.49658
6/5/2019 14:16			0.002	0.037	
6/5/2019 14:17			0.002	0.036	
6/5/2019 14:18			0.002	0.038	
6/5/2019 14:19			0.002	0.048	
6/5/2019 14:20	12.6	102.2	0.002	0.047	
6/5/2019 14:20					42.43317;-76.49664
6/5/2019 14:21			0.003	0.041	
6/5/2019 14:22			0.003	0.038	
6/5/2019 14:23			0.003	0.038	
6/5/2019 14:24			0.003	0.036	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/5/2019 14:25	12.6	90.1	0.003	0.036	
6/5/2019 14:25					42.43316;-76.49656
6/5/2019 14:26			0.003	0.036	
6/5/2019 14:27			0.003	0.04	
6/5/2019 14:28			0.003	0.043	
6/5/2019 14:29			0.003	0.039	
6/5/2019 14:30	12.6	100.2	0.003	0.037	
6/5/2019 14:30					42.4332;-76.49669
6/5/2019 14:31			0.003	0.037	
6/5/2019 14:32			0.003	0.036	
6/5/2019 14:33			0.004	0.038	
6/5/2019 14:34			0.004	0.037	
6/5/2019 14:35	12.6	90.1	0.004	0.039	
6/5/2019 14:35					42.43315;-76.49664
6/5/2019 14:36			0.004	0.036	
6/5/2019 14:37			0.004	0.036	
6/5/2019 14:38			0.004	0.039	
6/5/2019 14:39			0.004	0.038	
6/5/2019 14:40	12.6	90.1	0.004	0.036	
6/5/2019 14:40					42.43314;-76.49662
6/5/2019 14:41			0.004	0.035	
6/5/2019 14:42			0.004	0.036	
6/5/2019 14:43			0.004	0.036	
6/5/2019 14:44			0.004	0.035	
6/5/2019 14:45	12.6	90.1	0.004	0.034	
6/5/2019 14:45					42.4331;-76.49662
6/5/2019 14:46			0.004	0.036	
6/5/2019 14:47			0.005	0.035	
6/5/2019 14:48			0.005	0.036	
6/5/2019 14:49			0.005	0.036	
6/5/2019 14:50	12.6	94.1	0.005	0.04	
6/5/2019 14:50					42.43314;-76.49664
6/5/2019 14:51			0.005	0.042	
6/5/2019 14:52			0.005	0.043	
6/5/2019 14:53			0.005	0.041	
6/5/2019 14:54			0.005	0.04	
6/5/2019 14:55	12.6	92.1	0.005	0.04	
6/5/2019 14:55					42.43315;-76.49667
6/5/2019 14:56			0.005	0.04	
6/5/2019 14:57			0.005	0.037	
6/5/2019 14:58			0.005	0.037	
6/5/2019 14:59			0.006	0.037	
6/5/2019 15:00	12.6	96.2	0.006	0.038	
6/5/2019 15:00					42.43315;-76.49673
6/5/2019 15:01			0.006	0.036	
6/5/2019 15:02			0.006	0.037	
6/5/2019 15:03			0.006	0.037	
6/5/2019 15:04			0.006	0.037	
6/5/2019 15:05	12.6	98.2	0.006	0.037	
6/5/2019 15:05					42.43311;-76.49675
6/5/2019 15:06			0.006	0.045	
6/5/2019 15:07			0.006	0.056	
6/5/2019 15:08			0.006	0.039	
6/5/2019 15:09			0.006	0.039	
6/5/2019 15:10	12.6	106.3	0.006	0.043	
6/5/2019 15:10					42.43302;-76.49658
6/5/2019 15:11			0.007	0.039	
6/5/2019 15:12			0.007	0.038	
6/5/2019 15:13			0.007	0.038	
6/5/2019 15:14			0.007	0.042	
6/5/2019 15:15	12.6	93.1	0.007	0.038	
6/5/2019 15:15					42.43315;-76.49667
6/5/2019 15:16			0.007	0.04	
6/5/2019 15:17			0.007	0.038	
6/5/2019 15:18			0.007	0.038	
6/5/2019 15:19			0.007	0.038	
6/5/2019 15:20	12.6	88.1	0.007	0.037	
6/5/2019 15:20					42.43303;-76.49701
6/5/2019 15:21			0.007	0.038	
6/5/2019 15:22			0.007	0.04	
6/5/2019 15:23			0.008	0.049	
6/5/2019 15:24			0.008	0.038	
6/5/2019 15:25	12.6	106.3	0.008	0.038	
6/5/2019 15:25					42.43307;-76.49675
6/5/2019 15:26			0.008	0.044	
6/5/2019 15:27			0.008	0.049	
6/5/2019 15:28			0.008	0.042	
6/5/2019 15:29			0.008	0.043	
6/5/2019 15:30	12.6	91.1	0.008	0.039	
6/5/2019 15:30					42.4331;-76.49662
6/5/2019 15:31			0.008	0.039	
6/5/2019 15:32			0.008	0.055	
6/5/2019 15:33			0.008	0.038	
6/5/2019 15:34			0.009	0.037	
6/5/2019 15:35	12.6	98.2	0.009	0.037	
6/5/2019 15:35					42.43312;-76.4966
6/5/2019 15:36			0.009	0.037	
6/5/2019 15:37			0.009	0.037	
6/5/2019 15:38			0.009	0.037	
6/5/2019 15:39			0.009	0.036	
6/5/2019 15:40	12.6	93.1	0.009	0.063	
6/5/2019 15:40					42.43311;-76.49658
6/5/2019 15:41			0.009	0.05	
6/5/2019 15:42			0.009	0.047	
6/5/2019 15:43			0.009	0.06	
6/5/2019 15:44			0.009	0.042	
6/5/2019 15:45	12.6	91.1	0.01	0.045	
6/5/2019 15:45					42.43311;-76.4966
6/5/2019 15:46			0.01	0.048	
6/5/2019 15:47			0.01	0.046	
6/5/2019 15:48			0.01	0.04	
6/5/2019 15:49			0.01	0.037	
6/5/2019 15:50	12.6	92.1	0.01	0.037	
6/5/2019 15:50					42.43309;-76.49658
6/5/2019 15:51			0.01	0.036	
6/5/2019 15:52			0.075	30.426	
6/5/2019 15:53			0.171	46.025	
6/5/2019 15:54			0.275	49.928	
6/5/2019 15:55	12.6	98.2	0.379	49.93	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/5/2019 15:55					42.4331;-76.49658
6/5/2019 15:56			0.486	51.215	
6/5/2019 15:57			0.593	51.543	
6/5/2019 15:58			0.705	53.548	
6/5/2019 15:59			0.82	54.302	
6/5/2019 16:00	12.6	104.3	0.934	54.775	
6/5/2019 16:00					42.43306;-76.4966
6/5/2019 16:01			1.05	54.507	
6/5/2019 16:02			1.16	53.815	
6/5/2019 16:03			1.27	53.773	
6/5/2019 16:04			1.38	53.542	
6/5/2019 16:05	12.6	91.1	1.49	53.46	
6/5/2019 16:05					42.43305;-76.49658
6/5/2019 16:06			1.6	53.364	
6/5/2019 16:07			1.71	53.37	
6/5/2019 16:08			1.8	41.117	
6/5/2019 16:09			1.89	40.797	
6/5/2019 16:10	12.6	94.1	1.97	40.795	
6/5/2019 16:10					42.4331;-76.4966
6/5/2019 16:11			2.05	40.641	
6/5/2019 16:12			2.14	40.66	
6/5/2019 16:13			2.22	40.463	
6/5/2019 16:14			2.31	40.202	
6/5/2019 16:15	12.6	106.3	2.39	40.375	
6/5/2019 16:15					42.43311;-76.49662
6/5/2019 16:16			2.47	40.353	
6/5/2019 16:17			2.56	40.322	
6/5/2019 16:18			2.64	40.248	
6/5/2019 16:19			2.73	40.248	
6/5/2019 16:20	12.6	94.1	2.81	40.115	
6/5/2019 16:20					42.43312;-76.49667
6/5/2019 16:21			2.89	40.053	
6/5/2019 16:22			2.98	39.737	
6/5/2019 16:23			3.06	39.725	
6/5/2019 16:24			3.14	39.538	
6/5/2019 16:25	12.6	108.3	3.23	39.367	
6/5/2019 16:25					42.43311;-76.49664
6/5/2019 16:26			3.3	39.21	
6/5/2019 16:27			3.39	38.793	
6/5/2019 16:28			3.47	38.235	
6/5/2019 16:29			3.55	38.085	
6/5/2019 16:30	12.6	92.1	3.62	37.048	
6/5/2019 16:30					42.43311;-76.49671
6/5/2019 16:31			3.7	36.776	
6/5/2019 16:32			3.78	36.808	
6/5/2019 16:33			3.85	36.782	
6/5/2019 16:34			3.93	36.882	
6/5/2019 16:35	12.6	93.1	4.01	36.918	
6/5/2019 16:35					42.43311;-76.49664
6/5/2019 16:36			4.08	36.968	
6/5/2019 16:37			4.16	37.237	
6/5/2019 16:38			4.24	37.303	
6/5/2019 16:39			4.32	37.323	
6/5/2019 16:40	12.6	92.1	4.4	37.218	
6/5/2019 16:40					42.43315;-76.49658
6/5/2019 16:41			4.47	37.15	
6/5/2019 16:42			4.55	37.212	
6/5/2019 16:43			4.63	37.168	
6/5/2019 16:44			4.7	37.23	
6/5/2019 16:45	12.6	97.2	4.78	37.232	
6/5/2019 16:45					42.43316;-76.49662
6/5/2019 16:46			4.86	37.315	
6/5/2019 16:47			4.94	37.33	
6/5/2019 16:48			5.02	37.535	
6/5/2019 16:49			5.09	37.407	
6/5/2019 16:50	12.6	99.2	5.17	37.332	
6/5/2019 16:50					42.43316;-76.49662
6/5/2019 16:51			5.25	37.398	
6/5/2019 16:52			5.33	37.603	
6/5/2019 16:53			5.4	37.558	
6/5/2019 16:54			5.48	37.628	
6/5/2019 16:55	12.6	98.2	5.56	37.562	
6/5/2019 16:55					42.43314;-76.4966
6/5/2019 16:56			5.64	37.62	
6/5/2019 16:57			5.72	37.607	
6/5/2019 16:58			5.8	37.632	
6/5/2019 16:59			5.88	37.7	
6/5/2019 17:00	12.6	106.3	5.95	37.788	
6/5/2019 17:00					42.43315;-76.49682
6/5/2019 17:01			6.03	37.741	
6/5/2019 17:02			6.11	37.655	
6/5/2019 17:03			6.19	37.617	
6/5/2019 17:04			6.27	37.547	
6/5/2019 17:05	12.6	95.1	6.35	37.46	
6/5/2019 17:05					42.43312;-76.49669
6/5/2019 17:06			6.42	37.341	
6/5/2019 17:07			6.5	37.303	
6/5/2019 17:08			6.58	37.257	
6/5/2019 17:09			6.66	37.138	
6/5/2019 17:10	12.6	91.1	6.73	36.975	
6/5/2019 17:10					42.43315;-76.49667
6/5/2019 17:11			6.81	37.114	
6/5/2019 17:12			6.89	37.683	
6/5/2019 17:13			6.97	37.687	
6/5/2019 17:14			7.05	37.36	
6/5/2019 17:15	12.6	89.1	7.12	37.293	
6/5/2019 17:15					42.43316;-76.49664
6/5/2019 17:16			7.2	37.159	
6/5/2019 17:17			7.28	37.015	
6/5/2019 17:18			7.35	36.963	
6/5/2019 17:19			7.43	36.82	
6/5/2019 17:20	12.6	93.1	7.51	36.998	
6/5/2019 17:20					42.4331;-76.49662
6/5/2019 17:21			7.59	37.302	
6/5/2019 17:22			7.66	37.095	
6/5/2019 17:23			7.74	37.115	
6/5/2019 17:24			7.82	37.148	
6/5/2019 17:25	12.5	99.2	7.9	37.453	
6/5/2019 17:25					42.43316;-76.49662

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/5/2019 17:26			7.97	37.791	
6/5/2019 17:27			8.05	37.562	
6/5/2019 17:28			8.13	37.265	
6/5/2019 17:29			8.21	37.195	
6/5/2019 17:30	12.5	97.2	8.29	37.128	
6/5/2019 17:30					42.43314;-76.4966
6/5/2019 17:31			8.36	37.212	
6/5/2019 17:32			8.44	37.298	
6/5/2019 17:33			8.52	37.215	
6/5/2019 17:34			8.6	37.167	
6/5/2019 17:35	12.5	108.3	8.67	37.07	42.43311;-76.4966
6/5/2019 17:36			8.75	36.635	
6/5/2019 17:37			8.82	36.069	
6/5/2019 17:38			8.9	35.583	
6/5/2019 17:39			8.97	35.072	
6/5/2019 17:40	12.5	93.1	9.04	34.598	42.43316;-76.49664
6/5/2019 17:41			9.12	35.172	
6/5/2019 17:42			9.19	35.305	
6/5/2019 17:43			9.26	35.267	
6/5/2019 17:44			9.34	35.323	
6/5/2019 17:45	12.5	91.1	9.41	35.457	42.43311;-76.49658
6/5/2019 17:46			9.49	35.75	
6/5/2019 17:47			9.56	35.774	
6/5/2019 17:48			9.63	35.742	
6/5/2019 17:49			9.71	35.595	
6/5/2019 17:50	12.5	103.2	9.78	35.913	42.43319;-76.49667
6/5/2019 17:51			9.86	35.725	
6/5/2019 17:52			9.93	35.693	
6/5/2019 17:53			10	36.05	
6/5/2019 17:54			10.1	36.567	
6/5/2019 17:55	12.5	94.1	10.2	36.91	42.43314;-76.49667
6/5/2019 17:56			10.2	36.977	
6/5/2019 17:57			10.3	37.047	
6/5/2019 17:58			10.4	37.528	
6/5/2019 17:59			10.5	37.87	
6/5/2019 18:00	12.5	91.1	10.6	38.08	42.43315;-76.49664
6/5/2019 18:01			10.6	37.625	
6/5/2019 18:02			10.7	37.926	
6/5/2019 18:03			10.8	37.83	
6/5/2019 18:04			10.9	37.998	
6/5/2019 18:05	12.5	98.2	10.9	37.85	42.43312;-76.49671
6/5/2019 18:06			11	38.075	
6/5/2019 18:07			11.1	38.29	
6/5/2019 18:08			11.2	38.25	
6/5/2019 18:09			11.3	38.268	
6/5/2019 18:10	12.5	108.3	11.3	38.255	42.43316;-76.49671
6/5/2019 18:11			11.4	38.433	
6/5/2019 18:12			11.5	39.074	
6/5/2019 18:13			11.6	39.652	
6/5/2019 18:14			11.7	39.588	
6/5/2019 18:15	12.5	103.2	11.8	39.498	42.43316;-76.49669
6/5/2019 18:16			11.8	39.675	
6/5/2019 18:17			11.9	39.602	
6/5/2019 18:18			12	39.68	
6/5/2019 18:19			12.1	39.932	
6/5/2019 18:20	12.5	97.2	12.2	40.023	42.43318;-76.49673
6/5/2019 18:21			12.3	40.415	
6/5/2019 18:22			12.3	40.543	
6/5/2019 18:23			12.4	40.585	
6/5/2019 18:24			12.5	40.865	
6/5/2019 18:25	12.5	91.1	12.6	41.203	42.43317;-76.49675
6/5/2019 18:26			12.7	41.498	
6/5/2019 18:27			12.8	41.571	
6/5/2019 18:28			12.9	41.693	
6/5/2019 18:29			12.9	42.098	
6/5/2019 18:30	12.5	101.2	13	42.478	42.43315;-76.49671
6/5/2019 18:31			13.1	42.372	
6/5/2019 18:32			13.2	42.158	
6/5/2019 18:33			13.3	41.888	
6/5/2019 18:34			13.4	42.063	
6/5/2019 18:35	12.5	100.2	13.5	42.258	42.43302;-76.49667
6/5/2019 18:36			13.6	42.375	
6/5/2019 18:37			13.6	42.378	
6/5/2019 18:38			13.7	42.723	
6/5/2019 18:39			13.8	43.098	
6/5/2019 18:40	12.5	90.1	13.9	43.623	42.43306;-76.49673
6/5/2019 18:41			14	43.832	
6/5/2019 18:42			14.1	44.039	
6/5/2019 18:43			14.2	44.197	
6/5/2019 18:44			14.3	44.488	
6/5/2019 18:45	12.5	94.1	14.4	44.8	42.43303;-76.49669
6/5/2019 18:46			14.5	45.05	
6/5/2019 18:47			14.6	45.41	
6/5/2019 18:48			14.7	45.555	
6/5/2019 18:49			14.8	45.48	
6/5/2019 18:50	12.5	100.2	14.8	45.285	42.43305;-76.49662
6/5/2019 18:51			14.9	45.26	
6/5/2019 18:52			15	45.322	
6/5/2019 18:53			15.1	45.558	
6/5/2019 18:54			15.2	45.725	
6/5/2019 18:55	12.4	90.1	15.3	46.158	42.43308;-76.49671
6/5/2019 18:56			15.4	46.147	
6/5/2019 18:57			15.5	45.725	
6/5/2019 18:58			15.6	46.045	
6/5/2019 18:59			15.7	46.273	
6/5/2019 19:00	12.4	91.1	15.8	46.325	42.43304;-76.4968
6/5/2019 19:01			15.9	46.368	
6/5/2019 19:02			16	46.3	
6/5/2019 19:03			16.1	46.748	
6/5/2019 19:04			16.2	46.777	
6/5/2019 19:05	12.4	91.1	16.3	46.457	42.43304;-76.49667
6/5/2019 19:06			16.4	46.37	
6/5/2019 19:07			16.5	46.619	
6/5/2019 19:08			16.6	46.727	
6/5/2019 19:09			16.7	46.837	
6/5/2019 19:10	12.4	90.1	16.8	46.862	42.43316;-76.4966
6/5/2019 19:11			16.9	46.692	
6/5/2019 19:12			17	46.737	
6/5/2019 19:13			17.1	46.732	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/5/2019 19:14			17.2	46.758	
6/5/2019 19:15	12.4	97.2	17.3	47.113	42.43311;-76.49662
6/5/2019 19:16			17.4	47.235	
6/5/2019 19:17			17.5	47.297	
6/5/2019 19:18			17.6	46.943	
6/5/2019 19:19			17.7	46.177	
6/5/2019 19:20	12.4	91.1	17.7	45.555	42.43317;-76.49656
6/5/2019 19:21			17.8	45.757	
6/5/2019 19:22			17.9	45.273	
6/5/2019 19:23			18	45.16	
6/5/2019 19:24			18.1	45.975	
6/5/2019 19:25	12.4	89.1	18.2	46.662	42.43309;-76.49643
6/5/2019 19:26			18.3	47.137	
6/5/2019 19:27			18.4	47.576	
6/5/2019 19:28			18.5	47.798	
6/5/2019 19:29			18.6	48.067	
6/5/2019 19:30	12.4	103.2	18.7	48.583	42.43314;-76.49664
6/5/2019 19:31			18.8	48.34	
6/5/2019 19:32			18.9	48.507	
6/5/2019 19:33			19	48.337	
6/5/2019 19:34			19.1	48.837	
6/5/2019 19:35	12.4	103.2	19.2	48.565	42.43314;-76.49675
6/5/2019 19:36			19.3	48.698	
6/5/2019 19:37			19.4	48.451	
6/5/2019 19:38			19.5	48.083	
6/5/2019 19:39			19.6	47.943	
6/5/2019 19:40	12.4	93.1	19.7	47.942	42.4331;-76.4966
6/5/2019 19:41			19.8	48.127	
6/5/2019 19:42			19.9	48.232	
6/5/2019 19:43			20	48.536	
6/5/2019 19:44			20.1	48.438	
6/5/2019 19:45	12.4	92.1	20.2	48.185	42.43319;-76.49656
6/5/2019 19:46			20.3	48.335	
6/5/2019 19:47			20.4	48.21	
6/5/2019 19:48			20.5	44.854	
6/5/2019 19:49			20.6	41.877	
6/5/2019 19:50	12.4	92.1	20.7	42.107	42.43309;-76.49677
6/5/2019 19:51			20.8	41.723	
6/5/2019 19:52			20.9	41.73	
6/5/2019 19:53			21	41.878	
6/5/2019 19:54			21.1	41.948	
6/5/2019 19:55	12.4	89.1	21.1	42.558	42.43317;-76.49664
6/5/2019 19:56			21.2	42.473	
6/5/2019 19:57			21.3	42.038	
6/5/2019 19:58			21.4	40.064	
6/6/2019 15:39	12.7	109.3			
6/6/2019 15:40	12.7	90.1			
6/6/2019 15:41			0	5.83	
6/6/2019 15:42			0	10.731	
6/6/2019 15:43			0	22.777	
6/6/2019 15:44			0	23.613	
6/6/2019 15:45	12.6	104.3	0	31.22	42.43302;-76.4966
6/6/2019 15:46			0	35.527	
6/6/2019 15:47			0	36.777	
6/6/2019 15:48			0	39.612	
6/6/2019 15:49			0	40.205	
6/6/2019 15:50	12.6	107.3	0	41.22	
6/6/2019 15:50					42.43299;-76.4966
6/6/2019 15:51			0	41.048	
6/6/2019 15:52			0	41.952	
6/6/2019 15:53			0	44.693	
6/6/2019 15:54			0	44.595	
6/6/2019 15:55	12.6	89.1	0	45.778	
6/6/2019 15:55					42.43304;-76.49667
6/6/2019 15:56			1.14	46.098	
6/6/2019 15:57			1.24	47.065	
6/6/2019 15:58			1.35	51.102	
6/6/2019 15:59			1.46	54.55	
6/6/2019 16:00	12.6	89.1	1.59	59.571	
6/6/2019 16:00					42.43305;-76.49671
6/6/2019 16:01			1.72	64.89	
6/6/2019 16:02			1.86	66.767	
6/6/2019 16:03			2.01	69.585	
6/6/2019 16:04			2.15	68.297	
6/6/2019 16:05	12.6	89.1	2.29	69.441	
6/6/2019 16:05					42.43299;-76.4966
6/6/2019 16:06			2.43	69.515	
6/6/2019 16:07			2.59	72.307	
6/6/2019 16:08			2.74	72.83	
6/6/2019 16:09			2.89	72.468	
6/6/2019 16:10	12.6	110.3	3.05	76.239	
6/6/2019 16:10					42.43306;-76.49662
6/6/2019 16:11			3.2	72.403	
6/6/2019 16:12			3.35	71.042	
6/6/2019 16:13			3.49	69.017	
6/6/2019 16:14			3.65	73.441	
6/6/2019 16:15	12.6	100.2	3.81	79.815	42.43305;-76.4966
6/6/2019 16:16			3.97	75.663	
6/6/2019 16:17			4.13	78.973	
6/6/2019 16:18			4.3	80.862	
6/6/2019 16:19			4.48	81.743	
6/6/2019 16:20	12.6	88.1	4.64	81.939	
6/6/2019 16:20					42.43309;-76.49664
6/6/2019 16:21			4.82	84.157	
6/6/2019 16:22			4.99	83.554	
6/6/2019 16:23			5.18	87.377	
6/6/2019 16:24			5.36	88.943	
6/6/2019 16:25	12.6	90.1	5.54	89.838	
6/6/2019 16:25					42.43306;-76.49667
6/6/2019 16:26			5.73	89.51	
6/6/2019 16:27			5.93	93.64	
6/6/2019 16:28			6.14	101.86	
6/6/2019 16:29			6.36	104.38	
6/6/2019 16:30	12.6	104.3	6.58	105.9	42.43305;-76.49671
6/6/2019 16:31			6.8	106.27	
6/6/2019 16:32			7.02	107.62	
6/6/2019 16:33			7.25	107.38	
6/6/2019 16:34			7.48	107.13	
6/6/2019 16:35	12.6	102.2	7.7	107.64	42.43309;-76.49649

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/6/2019 16:36			7.92	108.07	
6/6/2019 16:37			8.15	109.47	
6/6/2019 16:38			8.38	110.53	
6/6/2019 16:39			8.62	110.8	
6/6/2019 16:40	12.6	97.2	8.85	113.93	
6/6/2019 16:40					42.43315;-76.49656
6/6/2019 16:41			9.09	115.97	
6/6/2019 16:42			9.33	117.4	
6/6/2019 16:43			9.59	120.45	
6/6/2019 16:44			9.83	119.55	
6/6/2019 16:45	12.6	106.3	10.1	120.53	
6/6/2019 16:45					42.43305;-76.4968
6/6/2019 16:46			10.3	122.65	
6/6/2019 16:47			10.6	122.85	
6/6/2019 16:48			10.9	124.05	
6/6/2019 16:49			11.1	125.73	
6/6/2019 16:50	12.6	91.1	11.4	127.15	42.43304;-76.49673
6/6/2019 16:51			11.6	128.92	
6/6/2019 16:52			11.9	130	
6/6/2019 16:53			12.2	131.07	
6/6/2019 16:54			12.5	134.32	
6/6/2019 16:55	12.6	90.1	12.8	135.14	
6/6/2019 16:55					42.43303;-76.49671
6/6/2019 16:56			13	137.93	
6/6/2019 16:57			13.3	139.53	
6/6/2019 16:58			13.6	140.02	
6/6/2019 16:59			13.9	140.67	
6/6/2019 17:00	12.6	92.1	14.2	142.45	
6/6/2019 17:00					42.43295;-76.49667
6/6/2019 17:01			14.5	143.15	
6/6/2019 17:02			14.8	142.45	
6/6/2019 17:03			15.1	142.6	
6/6/2019 17:04			15.4	142.03	
6/6/2019 17:05	12.6	94.1	15.7	142.41	
6/6/2019 17:05					42.43293;-76.49662
6/6/2019 17:06			16	143	
6/6/2019 17:07			16.3	142.78	
6/6/2019 17:08			16.6	142.7	
6/6/2019 17:09			16.9	144	
6/6/2019 17:10	12.6	91.1	17.2	144.12	
6/6/2019 17:10					42.43305;-76.49667
6/6/2019 17:11			17.5	143.53	
6/6/2019 17:12			17.8	144.48	
6/6/2019 17:13			18.1	143.13	
6/6/2019 17:14			18.4	143.1	
6/6/2019 17:15	12.6	90.1	18.7	144.19	
6/6/2019 17:15					42.43303;-76.49656
6/6/2019 17:16			19	145.56	
6/6/2019 17:17			19.3	140.23	
6/6/2019 17:18			19.6	137.85	
6/6/2019 17:19			19.9	151.88	
6/6/2019 17:20	12.6	96.2	20.2	156.9	
6/6/2019 17:20					42.43305;-76.49662
6/6/2019 17:21			20.5	156	
6/6/2019 17:22			20.9	158.68	
6/6/2019 17:23			21.2	155.87	
6/6/2019 17:24			21.5	148.58	
6/6/2019 17:25	12.6	106.3	21.8	148.73	
6/6/2019 17:25					42.43307;-76.49662
6/6/2019 17:26			22.1	142.9	
6/6/2019 17:27			22.4	146.85	
6/6/2019 17:28			22.7	142.25	
6/6/2019 17:29			23	140.52	
6/6/2019 17:30	12.6	93.1	23.3	139	
6/6/2019 17:30					42.43305;-76.49664
6/6/2019 17:31			23.6	128.4	
6/6/2019 17:32			23.8	126.58	
6/6/2019 17:33			24.1	125.07	
6/6/2019 17:34			24.3	123.68	
6/6/2019 17:35	12.6	101.2	24.6	128.02	
6/6/2019 17:35					42.43305;-76.49664
6/6/2019 17:36			24.9	112.83	
6/6/2019 17:37			25.1	108.43	
6/6/2019 17:38			25.3	107.52	
6/6/2019 17:39			25.5	106.55	
6/6/2019 17:40	12.6	90.1	25.7	98.498	
6/6/2019 17:40					42.4331;-76.49664
6/6/2019 17:41			25.9	100.72	
6/6/2019 17:42			26.1	96.973	
6/6/2019 17:43			26.3	98.187	
6/6/2019 17:44			26.6	99.863	
6/6/2019 17:45	12.6	90.1	26.7	85.149	42.43312;-76.49667
6/6/2019 17:46			26.9	80.532	
6/6/2019 17:47			27.1	78.985	
6/6/2019 17:48			27.2	75.21	
6/6/2019 17:49			27.4	74.197	
6/6/2019 17:50	12.6	91.1	27.5	66.68	42.43319;-76.49671
6/6/2019 17:51			27.6	57.595	
6/6/2019 17:52			27.8	62.36	
6/6/2019 17:53			27.9	50.928	
6/6/2019 17:54			28	50.772	
6/6/2019 17:55	12.6	90.1	28.1	49.376	
6/6/2019 17:55					42.43307;-76.49664
6/6/2019 17:56			28.2	45.817	
6/6/2019 17:57			28.2	35.353	
6/6/2019 17:58			28.3	35.465	
6/6/2019 17:59			28.4	32.005	
6/6/2019 18:00	12.6	101.2	28.4	21.167	42.43281;-76.4966
6/6/2019 18:01			28.5	21.724	
6/6/2019 18:02			28.5	20.025	
6/6/2019 18:03			28.6	19.173	
6/6/2019 18:04			28.6	14.317	
6/6/2019 18:05	12.6	90.1	28.6	12.625	42.4333;-76.4968
6/6/2019 18:06			28.6	11.722	
6/6/2019 18:07			28.7	10.753	
6/6/2019 18:08			28.7	9.846	
6/6/2019 18:09			28.7	8.933	
6/6/2019 18:10	12.6	97.2	28.7	9.35	
6/6/2019 18:10					42.43324;-76.49675

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/6/2019 18:11			28.7	8.305	
6/6/2019 18:12			28.7	7.479	
6/6/2019 18:13			28.8	7.623	
6/6/2019 18:14			28.8	7.335	
6/6/2019 18:15	12.6	100.2	28.8	7.767	42.43317;-76.49671
6/6/2019 18:16			28.8	6.994	
6/6/2019 18:17			28.8	7.016	
6/6/2019 18:18			28.8	6.57	
6/6/2019 18:19			28.9	7.351	
6/6/2019 18:20	12.6	89.1	28.9	6.76	42.43317;-76.49673
6/6/2019 18:21			28.9	6.12	
6/6/2019 18:22			28.9	5.326	
6/6/2019 18:23			28.9	5.444	
6/6/2019 18:24			28.9	5.366	
6/6/2019 18:25	12.6	101.2	28.9	5.156	
6/6/2019 18:25					42.43315;-76.49671
6/6/2019 18:26			28.9	5.106	
6/6/2019 18:27			28.9	5.042	
6/6/2019 18:28			29	4.924	
6/6/2019 18:29			29	4.771	
6/6/2019 18:30	12.6	91.1	29	4.707	42.43311;-76.49673
6/6/2019 18:31			29	4.68	
6/6/2019 18:32			29	4.767	
6/6/2019 18:33			29	4.765	
6/6/2019 18:34			29	4.967	
6/6/2019 18:35	12.6	89.1	29	5.111	42.43309;-76.49671
6/6/2019 18:36			29	5.101	
6/6/2019 18:37			29	5.007	
6/6/2019 18:38			29.1	5.224	
6/6/2019 18:39			29.1	5.355	
6/6/2019 18:40	12.6	91.1	29.1	5.317	
6/6/2019 18:40					42.43306;-76.49671
6/6/2019 18:41			29.1	5.348	
6/6/2019 18:42			29.1	5.53	
6/6/2019 18:43			29.1	5.616	
6/6/2019 18:44			29.1	5.368	
6/6/2019 18:45	12.6	93.1	29.1	5.324	42.43307;-76.49671
6/6/2019 18:46			29.1	5.367	
6/6/2019 18:47			29.2	5.378	
6/6/2019 18:48			29.2	5.476	
6/6/2019 18:49			29.2	5.547	
6/6/2019 18:50	12.5	93.1	29.2	5.505	42.43314;-76.49664
6/6/2019 18:51			29.2	5.393	
6/6/2019 18:52			29.2	5.311	
6/6/2019 18:53			29.2	5.225	
6/6/2019 18:54			29.2	5.206	
6/6/2019 18:55	12.6	93.1	29.2	5.13	
6/6/2019 18:55					42.43309;-76.49671
6/6/2019 18:56			29.3	5.103	
6/6/2019 18:57			29.3	5.089	
6/6/2019 18:58			29.3	5.132	
6/6/2019 18:59			29.3	5.053	
6/6/2019 19:00	12.5	96.2	29.3	4.844	42.43312;-76.49664
6/6/2019 19:01			29.3	4.823	
6/6/2019 19:02			29.3	4.628	
6/6/2019 19:03			29.3	4.775	
6/6/2019 19:04			29.3	4.774	
6/6/2019 19:05	12.5	101.2	29.4	4.856	
6/6/2019 19:05					42.43306;-76.49671
6/6/2019 19:06			29.4	4.94	
6/6/2019 19:07			29.4	4.992	
6/6/2019 19:08			29.4	4.959	
6/6/2019 19:09			29.4	5.07	
6/6/2019 19:10	12.5	91.1	29.4	5.215	42.43308;-76.49664
6/6/2019 19:11			29.4	5.138	
6/6/2019 19:12			29.4	5.051	
6/6/2019 19:13			29.4	4.676	
6/6/2019 19:14			29.4	4.824	
6/6/2019 19:15	12.5	91.1	29.5	4.823	
6/6/2019 19:15					42.43314;-76.49675
6/6/2019 19:16			29.5	4.796	
6/6/2019 19:17			29.5	4.363	
6/6/2019 19:18			29.5	4.209	
6/6/2019 19:19			29.5	4.229	
6/6/2019 19:20	12.5	95.1	29.5	4.191	
6/6/2019 19:20					42.43311;-76.4968
6/6/2019 19:21			29.5	3.892	
6/6/2019 19:22			29.5	3.96	
6/6/2019 19:23			29.5	4.043	
6/6/2019 19:24			29.5	4.173	
6/6/2019 19:25	12.5	100.2	29.5	4.237	42.43318;-76.49683
6/6/2019 19:26			29.6	4.406	
6/6/2019 19:27			29.6	4.594	
6/6/2019 19:28			29.6	4.694	
6/6/2019 19:29			29.6	4.725	
6/6/2019 19:30	12.5	92.1	29.6	4.753	
6/6/2019 19:30					42.43316;-76.49671
6/6/2019 19:31			29.6	4.856	
6/6/2019 19:32			29.6	4.918	
6/6/2019 19:33			29.6	4.917	
6/6/2019 19:34			29.6	4.89	
6/6/2019 19:35	12.5	97.2	29.6	4.925	
6/6/2019 19:35					42.43321;-76.49673
6/6/2019 19:36			29.7	4.919	
6/6/2019 19:37			29.7	4.98	
6/6/2019 19:38			29.7	4.967	
6/6/2019 19:39			29.7	4.95	
6/6/2019 19:40	12.5	95.1	29.7	4.919	42.43317;-76.49667
6/6/2019 19:41			29.7	4.915	
6/6/2019 19:42			29.7	4.934	
6/6/2019 19:43			29.7	4.881	
6/6/2019 19:44			29.7	4.837	
6/6/2019 19:45	12.5	102.2	29.7	4.903	42.43319;-76.49662
6/6/2019 19:46			29.8	4.931	
6/6/2019 19:47			29.8	4.841	
6/6/2019 19:48			29.8	4.871	
6/6/2019 19:49			29.8	4.88	
6/6/2019 19:50	12.5	92.1	29.8	4.861	42.43319;-76.49662
6/6/2019 19:51			29.8	4.623	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/6/2019 19:52			29.8	4.64	
6/6/2019 19:53			29.8	4.658	
6/6/2019 19:54			29.8	4.637	
6/6/2019 19:55	12.5	92.1	29.8	4.72	
6/6/2019 19:55					42.43318;-76.49658
6/6/2019 19:56			29.9	4.665	
6/6/2019 19:57			29.9	4.616	
6/6/2019 19:58			29.9	4.595	
6/6/2019 19:59			29.9	4.706	
6/6/2019 20:00	12.5	95.1	29.9	4.803	42.43314;-76.49656
6/6/2019 20:01			29.9	4.598	
6/6/2019 20:02			29.9	4.62	
6/6/2019 20:03			29.9	4.533	
6/6/2019 20:04			29.9	4.575	
6/6/2019 20:05	12.5	90.1	29.9	4.627	42.43318;-76.49658
6/6/2019 20:06			29.9	4.592	
6/6/2019 20:07			30	4.602	
6/6/2019 20:08			30	4.393	
6/6/2019 20:09			30	4.376	
6/6/2019 20:10	12.5	91.1	30	4.352	42.43312;-76.49656
6/6/2019 20:11			30	4.337	
6/6/2019 20:12			30	4.33	
6/6/2019 20:13			30	4.29	
6/6/2019 20:14			30	4.178	
6/6/2019 20:15	12.5	92.1	30	4.178	
6/6/2019 20:15					42.43307;-76.49651
6/6/2019 20:16			30	4.266	
6/6/2019 20:17			30	4.222	
6/6/2019 20:18			30.1	4.123	
6/6/2019 20:19			30.1	4.142	
6/6/2019 20:20	12.5	94.1	30.1	4.152	
6/6/2019 20:20					42.43308;-76.49656
6/6/2019 20:21			30.1	4.154	
6/6/2019 20:22			30.1	4.221	
6/6/2019 20:23			30.1	4.291	
6/6/2019 20:24			30.1	4.21	
6/6/2019 20:25	12.5	101.2	30.1	4.146	
6/6/2019 20:25					42.43295;-76.49649
6/6/2019 20:26			30.1	4.011	
6/6/2019 20:27			30.1	3.829	
6/6/2019 20:28			30.1	3.827	
6/6/2019 20:29			30.1	3.762	
6/6/2019 20:30	12.4	92.1	30.2	3.823	
6/6/2019 20:30					42.43305;-76.49658
6/6/2019 20:31			30.2	3.831	
6/6/2019 20:32			30.2	4.092	
6/6/2019 20:33			30.2	4.023	
6/6/2019 20:34			30.2	4.105	
6/6/2019 20:35	12.5	90.1	30.2	4.005	
6/6/2019 20:35					42.4332;-76.49658
6/6/2019 20:36			30.2	3.854	
6/6/2019 20:37			30.2	3.953	
6/6/2019 20:38			30.2	3.878	
6/6/2019 20:39			30.2	3.85	
6/6/2019 20:40	12.4	92.1	30.2	3.924	
6/6/2019 20:40					42.43315;-76.49662
6/6/2019 20:41			30.2	3.905	
6/6/2019 20:42			30.3	3.9	
6/6/2019 20:43			30.3	3.785	
6/6/2019 20:44			30.3	3.83	
6/6/2019 20:45	12.4	102.2	30.3	3.859	
6/6/2019 20:45					42.43316;-76.49667
6/6/2019 20:46			30.3	3.838	
6/6/2019 20:47			30.3	3.854	
6/6/2019 20:48			30.3	3.852	
6/6/2019 20:49			30.3	3.902	
6/6/2019 20:50	12.4	97.2	30.3	3.842	42.43307;-76.4966
6/6/2019 20:51			30.3	3.874	
6/6/2019 20:52			30.3	3.778	
6/6/2019 20:53			30.3	3.811	
6/6/2019 20:54			30.4	3.699	
6/6/2019 20:55	12.4	89.1	30.4	3.764	42.43293;-76.49658
6/6/2019 20:56			30.4	3.733	
6/6/2019 20:57			30.4	3.778	
6/6/2019 20:58			30.4	3.716	
6/6/2019 20:59			30.4	3.698	
6/6/2019 21:00	12.4	92.1	30.4	3.643	
6/6/2019 21:00					42.43299;-76.4966
6/6/2019 21:01			30.4	3.711	
6/6/2019 21:02			30.4	3.71	
6/6/2019 21:03			30.4	3.636	
6/6/2019 21:04			30.4	3.626	
6/6/2019 21:05	12.4	122.5	30.4	3.641	
6/6/2019 21:05					42.43292;-76.49662
6/6/2019 21:06			30.4	3.749	
6/6/2019 21:07			30.5	3.673	
6/6/2019 21:08			30.5	3.657	
6/6/2019 21:09			30.5	3.644	
6/6/2019 21:10	12.4	97.2	30.5	3.61	
6/6/2019 21:10					42.43291;-76.49658
6/6/2019 21:11			30.5	3.623	
6/6/2019 21:12			30.5	3.659	
6/6/2019 21:13			30.5	3.629	
6/6/2019 21:14			30.5	3.657	
6/6/2019 21:15	12.4	91.1	30.5	3.577	42.43295;-76.4966
6/6/2019 21:16			30.5	3.565	
6/6/2019 21:17			30.5	3.518	
6/6/2019 21:18			30.5	3.553	
6/6/2019 21:19			30.5	3.544	
6/6/2019 21:20	12.4	99.2	30.5	3.58	42.43293;-76.49662
6/6/2019 21:21			30.6	3.572	
6/6/2019 21:22			30.6	3.538	
6/6/2019 21:23			30.6	3.591	
6/6/2019 21:24			30.6	3.482	
6/6/2019 21:25	12.4	91.1	30.6	3.532	42.43299;-76.49671
6/6/2019 21:26			30.6	3.517	
6/7/2019 10:18	12.8	130.6			
6/7/2019 10:20	12.7	90.1	0		
6/7/2019 10:21			0	151.56	

Appendix F

Community Air Monitoring Program - Upwind Station
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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/7/2019 10:22			0	98.79	
6/7/2019 10:23			0	98.6	
6/7/2019 10:24			0	98.6	
6/7/2019 10:25	12.7	89.1	0	98.6	
6/7/2019 10:26			0	98.6	
6/7/2019 10:27			0	98.6	
6/7/2019 10:28			0	98.6	
6/7/2019 10:29			0	98.6	
6/7/2019 10:30	12.7	92.1	0	98.6	
6/7/2019 10:31			0	98.6	
6/7/2019 10:58	12.3	117.4			
6/7/2019 10:58					42.4407066;-76.49740830000002
6/7/2019 11:00	12.5	118.4			
6/7/2019 11:00					42.43311;-76.49654
6/7/2019 11:05	12.5	119.4			
6/7/2019 11:05					42.43303;-76.49667
6/7/2019 11:10	12.5	113.4			
6/7/2019 11:10					42.43305;-76.49662
6/7/2019 11:15	12.5	118.4			42.43305;-76.49675
6/7/2019 11:20	12.5	110.3			42.43303;-76.49682
6/7/2019 11:25	12.5	112.4			42.43298;-76.49688
6/7/2019 11:30	12.5	112.4			
6/7/2019 11:30					42.43311;-76.49643
6/7/2019 11:35	12.5	115.4			
6/7/2019 11:35					42.43311;-76.49654
6/7/2019 11:40	12.4	131.6			42.43308;-76.49662
6/7/2019 11:45	12.5	118.4			42.43307;-76.49667
6/7/2019 11:50	12.4	130.6			
6/7/2019 11:50					42.43293;-76.49677
6/7/2019 11:55	12.4	107.3			42.43332;-76.49703
6/7/2019 12:00	12.4	129.6			
6/7/2019 12:05	12.4	125.5			
6/7/2019 12:05					42.27871;-76.50016
6/7/2019 12:10	12.4	120.5			
6/7/2019 12:10					42.43299;-76.49686
6/7/2019 12:15	12.4	110.3			42.4329;-76.49675
6/7/2019 12:20	12.4	115.4			
6/7/2019 12:20					42.4327;-76.4966
6/7/2019 12:25	12.4	146.8			
6/7/2019 12:25					42.43309;-76.49688
6/7/2019 12:30	12.4	111.3			42.50482;-76.56977
6/7/2019 12:35	12.4	119.4			42.89768;-77.0218
6/7/2019 12:40	12.4	122.5			
6/7/2019 12:40					43.34018;-77.61575
6/7/2019 12:45	12.4	119.4			
6/7/2019 12:45					42.43295;-76.49667
6/7/2019 12:50	12.4	119.4			42.43278;-76.49656
6/7/2019 12:55	12.4	130.6			42.43288;-76.49658
6/7/2019 13:00	12.4	120.5			42.43289;-76.4966
6/7/2019 13:05	12.4	120.5			42.43284;-76.4966
6/7/2019 13:10	12.4	112.4			42.43295;-76.49669
6/7/2019 13:15	12.4	115.4			
6/7/2019 13:15					42.43309;-76.49611
6/7/2019 13:20	12.3	116.4			
6/7/2019 13:20					42.43292;-76.49673
6/7/2019 13:25	12.3	115.4			42.4329;-76.49654
6/7/2019 13:30	12.4	123.5			42.43304;-76.49625
6/7/2019 13:35	12.4	113.4			42.43292;-76.49706
6/7/2019 13:40	12.3	156.9			
6/7/2019 13:40					42.43311;-76.49658
6/7/2019 13:45	12.3	147.8			
6/7/2019 13:45					42.43314;-76.49688
6/7/2019 13:50	12.3	132.6			42.43305;-76.49664
6/7/2019 13:55	12.3	148.8			
6/7/2019 13:55					42.43318;-76.49667
6/7/2019 14:00	12.3	113.4			
6/7/2019 14:00					42.43306;-76.49662
6/7/2019 14:05	12.3	144.7			
6/7/2019 14:05					42.43309;-76.49572
6/7/2019 14:10	12.4	134.6			
6/7/2019 14:10					42.43301;-76.49568
6/7/2019 14:15	12.3	127.5			42.43296;-76.49568
6/7/2019 14:20	12.3	148.8			42.43308;-76.49522
6/7/2019 14:25	12.4	131.6			42.43317;-76.4949
6/7/2019 14:30	12.3	116.4			42.43308;-76.49477
6/7/2019 14:35	12.3	113.4			42.4331;-76.4945
6/7/2019 14:40	12.3	118.4			42.43318;-76.49397
6/7/2019 14:45	12.3	125.5			
6/7/2019 14:45					42.43333;-76.49362
6/7/2019 14:50	12.3	131.6			42.43338;-76.49374
6/7/2019 14:55	12.3	114.4			
6/7/2019 14:55					42.43331;-76.49353
6/7/2019 15:00	12.3	121.5			
6/7/2019 15:00					42.43351;-76.49405
6/7/2019 15:05	12.3	114.4			
6/7/2019 15:05					42.43304;-76.49568
6/7/2019 15:10	12.3	123.5			
6/7/2019 15:10					42.4327;-76.49677
6/7/2019 15:15	12.2	122.5			
6/7/2019 15:15					42.43301;-76.49656
6/7/2019 15:20	12.3	133.6			
6/7/2019 15:20					42.43304;-76.49637
6/7/2019 15:25	12.3	114.4			
6/7/2019 15:25					42.43299;-76.49651
6/7/2019 15:30	12.3	128.6			
6/7/2019 15:30					42.43307;-76.49637
6/7/2019 15:35	12.3	114.4			
6/7/2019 15:35					42.43309;-76.49637
6/7/2019 15:40	12.2	101.2			
6/7/2019 15:40					42.43321;-76.49609
6/7/2019 15:45	12.2	126.5			42.43373;-76.4781
6/7/2019 15:50	12.3	132.6			42.43066;-76.50083
6/7/2019 15:55	12.2	116.4			
6/7/2019 15:55					42.43036;-76.5015
6/7/2019 16:00	12.2	144.7			
6/7/2019 16:05	12.3	100.2			
6/7/2019 16:05					42.43682;-76.48911
6/7/2019 16:10	12.3	91.1			
6/7/2019 16:15	12.3	98.2			

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/7/2019 16:20	12.2	120.5			
6/7/2019 16:20					42.43452;-76.49033
6/7/2019 16:25	12.3	92.1			
6/7/2019 16:30	12.2	91.1			
6/7/2019 16:35	12.2	111.3			
6/7/2019 16:40	12.2	92.1			
6/7/2019 16:45	12.2	93.1			
6/25/2019 19:32	12.5	128.6			
6/25/2019 19:35	12.5	90.1	0	-0.189	
6/25/2019 19:35					42.4325;-76.49828
6/25/2019 19:36			0	-0.19	
6/25/2019 19:37			0	-0.005	
6/25/2019 19:38	12.5	132.6			
6/25/2019 19:40	12.4	108.3			
6/25/2019 19:40					42.43286;-76.49809
6/25/2019 19:41			0	-0.188	
6/25/2019 19:42			0	-0.19	
6/25/2019 19:43			0	-0.19	
6/25/2019 19:44			0	-0.189	
6/25/2019 19:45	12.4	90.1	0	-0.188	
6/25/2019 19:45					42.43261;-76.49831
6/25/2019 19:46			0	-0.19	
6/25/2019 19:47			0	-0.189	
6/25/2019 19:48			0	-0.188	
6/25/2019 19:49	12.5	131.6			
6/25/2019 19:50	12.5	157.9			
6/25/2019 19:53			0	-0.172	
6/25/2019 19:54			0	-0.189	
6/25/2019 19:55	12.5	121.5	0	-0.189	
6/25/2019 19:55					42.43249;-76.49838
6/25/2019 19:56			0	-0.189	
6/25/2019 19:57			0	-0.189	
6/25/2019 19:58			0	-0.189	
6/25/2019 19:59			0	-0.189	
6/25/2019 20:00	12.5	109.3	0	-0.189	
6/25/2019 20:00					42.43256;-76.49834
6/25/2019 20:01			0	-0.189	
6/25/2019 20:02			0	-0.189	
6/25/2019 20:03			0	-0.189	
6/25/2019 20:04			0	-0.189	
6/25/2019 20:05	12.6	96.2	0	-0.189	42.43257;-76.49836
6/25/2019 20:06			0	-0.189	
6/25/2019 20:07			0	-0.189	
6/25/2019 20:08			0.006	-0.189	
6/25/2019 20:09			0.006	-0.189	
6/25/2019 20:10	12.6	101.2	0.007	-0.189	42.43262;-76.49836
6/25/2019 20:11			0.007	-0.188	
6/25/2019 20:12			0.008	-0.188	
6/25/2019 20:13			0.008	-0.187	
6/25/2019 20:14			0.008	-0.188	
6/25/2019 20:15	12.5	97.2	0.009	-0.188	42.43259;-76.49836
6/25/2019 20:16			0.009	-0.188	
6/25/2019 20:17			0.01	-0.188	
6/25/2019 20:18			0.01	-0.188	
6/25/2019 20:19			0.01	-0.187	
6/25/2019 20:20	12.6	112.4	0.011	-0.187	
6/25/2019 20:20					42.43255;-76.49841
6/25/2019 20:21			0.011	-0.187	
6/25/2019 20:22			0.011	-0.024	
6/25/2019 20:23	12.6	131.6			
6/25/2019 20:25	12.6	101.2	0	-0.188	
6/25/2019 20:25					42.43261;-76.49825
6/25/2019 20:26			0	-0.187	
6/25/2019 20:27			0	-0.188	
6/25/2019 20:28			0	-0.188	
6/25/2019 20:29			0	-0.188	
6/25/2019 20:30	12.6	91.1	0	-0.188	
6/25/2019 20:30					42.43256;-76.49831
6/25/2019 20:31			0	-0.188	
6/25/2019 20:32			0	-0.188	
6/25/2019 20:33			0	-0.188	
6/25/2019 20:34			0	-0.187	
6/25/2019 20:35	12.6	92.1	0	-0.188	42.43257;-76.49836
6/25/2019 20:36			0	-0.187	
6/25/2019 20:37			0	-0.188	
6/25/2019 20:38			0	-0.188	
6/25/2019 20:39			0	-0.188	
6/25/2019 20:40	12.6	112.4	0.006	-0.188	42.43258;-76.49834
6/25/2019 20:41			0.006	-0.187	
6/25/2019 20:42			0.007	-0.188	
6/25/2019 20:43			0.007	-0.187	
6/25/2019 20:44			0.007	-0.188	
6/25/2019 20:45	12.6	93.1	0.008	-0.187	
6/25/2019 20:45					42.43262;-76.49834
6/25/2019 20:46			0.008	-0.187	
6/25/2019 20:47			0.009	-0.187	
6/25/2019 20:48			0.009	-0.187	
6/25/2019 20:49			0.009	-0.187	
6/25/2019 20:50	12.6	99.2	0.01	-0.187	42.43265;-76.49831
6/25/2019 20:51			0.01	-0.187	
6/25/2019 20:52			0.011	-0.187	
6/25/2019 20:53			0.011	-0.187	
6/25/2019 20:54			0.011	-0.187	
6/25/2019 20:55	12.6	88.1	0.012	-0.187	42.4327;-76.4983
6/25/2019 20:56			0.012	-0.187	
6/25/2019 20:57			0.012	-0.187	
6/25/2019 20:58			0.013	-0.187	
6/25/2019 20:59			0.013	-0.186	
6/25/2019 21:00	12.5	105.3	0.014	-0.186	
6/25/2019 21:00					42.43262;-76.49831
6/25/2019 21:01			0.014	-0.186	
6/25/2019 21:02			0.014	-0.187	
6/25/2019 21:03			0.015	-0.186	
6/25/2019 21:04			0.015	-0.186	
6/25/2019 21:05	12.5	113.4	0.016	-0.186	42.43266;-76.49834
6/25/2019 21:06			0.016	-0.186	
6/25/2019 21:07			0.016	-0.186	
6/25/2019 21:08			0.017	-0.186	
6/25/2019 21:09			0.017	-0.186	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/25/2019 21:10	12.5	90.1	0.017	-0.186	42.4327;-76.49834
6/25/2019 21:11			0.018	-0.186	
6/25/2019 21:12			0.018	-0.185	
6/25/2019 21:13			0.019	-0.185	
6/25/2019 21:14			0.019	-0.184	
6/25/2019 21:15	12.5	112.4	0.019	-0.184	42.43272;-76.4983
6/25/2019 21:16			0.02	-0.185	
6/25/2019 21:17			0.02	-0.185	
6/25/2019 21:18			0.021	-0.185	
6/25/2019 21:19			0.021	-0.185	
6/25/2019 21:20	12.5	98.2	0.021	-0.185	42.43276;-76.49836
6/25/2019 21:21			0.022	-0.185	
6/25/2019 21:22			0.022	-0.185	
6/25/2019 21:23			0.022	-0.184	
6/25/2019 21:24			0.023	-0.184	
6/25/2019 21:25	12.5	97.2	0.023	-0.184	
6/25/2019 21:25					42.4327;-76.49828
6/25/2019 21:26			0.024	-0.184	
6/25/2019 21:27			0.024	-0.184	
6/25/2019 21:28			0.024	-0.184	
6/25/2019 21:29			0.025	-0.184	
6/25/2019 21:30	12.5	101.2	0.025	-0.184	42.43278;-76.49831
6/25/2019 21:31			0.026	-0.184	
6/25/2019 21:32			0.026	-0.184	
6/25/2019 21:33			0.026	-0.183	
6/25/2019 21:34			0.027	-0.183	
6/25/2019 21:35	12.5	91.1	0.027	-0.183	
6/25/2019 21:35					42.4326;-76.49823
6/25/2019 21:36			0.027	-0.183	
6/25/2019 21:37			0.028	-0.183	
6/25/2019 21:38			0.028	-0.183	
6/25/2019 21:39			0.029	-0.183	
6/25/2019 21:40	12.5	90.1	0.029	-0.183	42.43261;-76.49825
6/25/2019 21:41			0.029	-0.182	
6/25/2019 21:42			0.03	-0.182	
6/25/2019 21:43			0.03	-0.182	
6/25/2019 21:44			0.03	-0.182	
6/25/2019 21:45	12.5	99.2	0.031	-0.182	
6/25/2019 21:45					42.43259;-76.49817
6/25/2019 21:46			0.031	-0.133	
6/26/2019 10:48	12.8	129.6			
6/26/2019 10:50	12.8	101.2			
6/26/2019 10:51			0	-0.161	
6/26/2019 10:52			0	-0.158	
6/26/2019 10:53			0	-0.16	
6/26/2019 10:54			0	-0.154	
6/26/2019 10:55	12.7	100.2	0	-0.16	
6/26/2019 10:56			0	-0.161	
6/26/2019 10:57			0	-0.16	
6/26/2019 10:58			0	-0.16	
6/26/2019 10:59			0	-0.159	
6/26/2019 11:00	12.7	99.2	0	-0.16	
6/26/2019 11:01			0	-0.16	
6/26/2019 11:02			0	-0.16	
6/26/2019 11:03			0	-0.16	
6/26/2019 11:04			0	-0.16	
6/26/2019 11:05	12.7	107.3	0	-0.16	
6/26/2019 11:06			0.005	-0.16	
6/26/2019 11:07				-0.158	
6/26/2019 12:09	12.8	129.6			
6/26/2019 12:10	12.7	118.4			
6/26/2019 12:12			0	-0.159	
6/26/2019 12:13			0	-0.163	
6/26/2019 12:14			0	-0.165	
6/26/2019 12:15	12.6	114.4	0	-0.16	
6/26/2019 12:18	12.7	148.8			
6/26/2019 12:20	12.7	118.4	0	0.015	
6/26/2019 12:20					42.43315;-76.49754
6/26/2019 12:21			0	0.137	
6/26/2019 12:22			0	0.017	
6/26/2019 12:23			0	0.014	
6/26/2019 12:24			0	0.014	
6/26/2019 12:25	12.7	89.1	0	0.014	
6/26/2019 12:25					42.43262;-76.49823
6/26/2019 12:26			0	0.014	
6/26/2019 12:27			0	0.014	
6/26/2019 12:28			0	0.014	
6/26/2019 12:29			0	0.013	
6/26/2019 12:30	12.7	93.1	0	0.014	
6/26/2019 12:30					42.43264;-76.49831
6/26/2019 12:31			0	0.014	
6/26/2019 12:32			0	0.013	
6/26/2019 12:33			0	0.014	
6/26/2019 12:34			0	0.014	
6/26/2019 12:35	12.6	91.1	0.001	0.014	
6/26/2019 12:35					42.43263;-76.49831
6/26/2019 12:36			0.001	0.013	
6/26/2019 12:37			0.001	0.014	
6/26/2019 12:38			0.001	0.014	
6/26/2019 12:39			0.001	0.014	
6/26/2019 12:40	12.6	90.1	0.001	0.014	42.43261;-76.49831
6/26/2019 12:41			0.001	0.014	
6/26/2019 12:42			0.001	0.014	
6/26/2019 12:43			0.001	0.013	
6/26/2019 12:44			0.001	0.014	
6/26/2019 12:45	12.6	90.1	0.001	0.014	42.4326;-76.49821
6/26/2019 12:46			0.001	0.014	
6/26/2019 12:47			0.001	0.014	
6/26/2019 12:48			0.001	0.014	
6/26/2019 12:49			0.001	0.014	
6/26/2019 12:50	12.6	90.1	0.001	0.014	
6/26/2019 12:50					42.43255;-76.49819
6/26/2019 12:51			0.001	0.014	
6/26/2019 12:52			0.001	0.014	
6/26/2019 12:53			0.001	0.014	
6/26/2019 12:54			0.001	0.014	
6/26/2019 12:55	12.6	91.1	0.001	0.014	42.43261;-76.49823
6/26/2019 12:56			0.001	0.014	
6/26/2019 12:57			0.001	0.014	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/26/2019 12:58			0.001	0.014	
6/26/2019 12:59			0.001	0.015	
6/26/2019 13:00	12.6	92.1	0.001	0.014	42.43257;-76.49817
6/26/2019 13:01			0.001	0.015	
6/26/2019 13:02			0.001	0.015	
6/26/2019 13:03			0.002	0.015	
6/26/2019 13:04			0.002	0.016	
6/26/2019 13:05	12.6	103.2	0.002	0.016	
6/26/2019 13:05					42.43263;-76.49825
6/26/2019 13:06			0.002	0.016	
6/26/2019 13:07			0.002	0.015	
6/26/2019 13:08			0.002	0.016	
6/26/2019 13:09			0.002	0.016	
6/26/2019 13:10	12.6	106.3	0.002	0.016	
6/26/2019 13:10					42.4326;-76.49828
6/26/2019 13:11			0.002	0.016	
6/26/2019 13:12			0.002	0.016	
6/26/2019 13:13			0.002	0.016	
6/26/2019 13:14			0.002	0.016	
6/26/2019 13:15	12.6	89.1	0.002	0.016	42.43261;-76.49823
6/26/2019 13:16			0.002	0.017	
6/26/2019 13:17			0.002	0.016	
6/26/2019 13:18			0.002	0.017	
6/26/2019 13:19			0.002	0.017	
6/26/2019 13:20	12.6	96.2	0.002	0.017	42.43261;-76.49823
6/26/2019 13:21			0.002	0.017	
6/26/2019 13:22			0.002	0.018	
6/26/2019 13:23			0.002	0.017	
6/26/2019 13:24			0.002	0.017	
6/26/2019 13:25	12.6	96.2	0.002	0.017	42.43261;-76.49825
6/26/2019 13:26			0.002	0.017	
6/26/2019 13:27			0.002	0.017	
6/26/2019 13:28			0.002	0.017	
6/26/2019 13:29			0.002	0.017	
6/26/2019 13:30	12.6	92.1	0.002	0.017	
6/26/2019 13:30					42.43261;-76.49828
6/26/2019 13:31			0.002	0.016	
6/26/2019 13:32			0.003	0.016	
6/26/2019 13:33			0.003	0.017	
6/26/2019 13:34			0.003	0.017	
6/26/2019 13:35	12.6	90.1	0.003	0.017	42.43258;-76.49823
6/26/2019 13:36			0.003	0.017	
6/26/2019 13:37			0.003	0.017	
6/26/2019 13:38			0.003	0.017	
6/26/2019 13:39			0.003	0.017	
6/26/2019 13:40	12.6	102.2	0.003	0.017	42.43251;-76.49823
6/26/2019 13:41			0.003	0.018	
6/26/2019 13:42			0.003	0.018	
6/26/2019 13:43			0.003	0.017	
6/26/2019 13:44			0.003	0.018	
6/26/2019 13:45	12.6	95.1	0.003	0.02	
6/26/2019 13:45					42.4325;-76.49823
6/26/2019 13:46			0.003	0.018	
6/26/2019 13:47			0.003	0.018	
6/26/2019 13:48			0.003	0.019	
6/26/2019 13:49			0.003	0.018	
6/26/2019 13:50	12.6	89.1	0.003	0.019	42.43257;-76.49825
6/26/2019 13:51			0.003	0.019	
6/26/2019 13:52			0.003	0.019	
6/26/2019 13:53			0.003	0.019	
6/26/2019 13:54			0.003	0.019	
6/26/2019 13:55	12.6	96.2	0.003	0.02	
6/26/2019 13:55					42.43249;-76.49821
6/26/2019 13:56			0.003	0.019	
6/26/2019 13:57			0.003	0.019	
6/26/2019 13:58			0.003	0.019	
6/26/2019 13:59			0.004	0.02	
6/26/2019 14:00	12.6	90.1	0.004	0.02	42.43251;-76.49821
6/26/2019 14:01			0.004	0.02	
6/26/2019 14:02			0.004	0.02	
6/26/2019 14:03			0.004	0.02	
6/26/2019 14:04			0.004	0.02	
6/26/2019 14:05	12.6	105.3	0.004	0.021	42.4325;-76.49817
6/26/2019 14:06			0.004	0.02	
6/26/2019 14:07			0.004	0.021	
6/26/2019 14:08			0.004	0.022	
6/26/2019 14:09			0.004	0.021	
6/26/2019 14:10	12.5	97.2	0.004	0.022	42.43253;-76.49817
6/26/2019 14:11			0.004	0.021	
6/26/2019 14:12			0.004	0.02	
6/26/2019 14:13			0.004	0.021	
6/26/2019 14:14			0.004	0.021	
6/26/2019 14:15	12.6	91.1	0.004	0.021	
6/26/2019 14:15					42.43255;-76.49825
6/26/2019 14:16			0.004	0.021	
6/26/2019 14:17			0.004	0.021	
6/26/2019 14:18			0.004	0.022	
6/26/2019 14:19			0.004	0.022	
6/26/2019 14:20	12.6	90.1	0.004	0.022	42.43253;-76.49823
6/26/2019 14:21			0.004	0.022	
6/26/2019 14:22			0.005	0.022	
6/26/2019 14:23			0.005	0.023	
6/26/2019 14:24			0.005	0.028	
6/26/2019 14:25	12.6	89.1	0.005	0.024	42.4325;-76.49819
6/26/2019 14:26			0.005	0.024	
6/26/2019 14:27			0.005	0.025	
6/26/2019 14:28			0.005	0.024	
6/26/2019 14:29			0.005	0.024	
6/26/2019 14:30	12.5	97.2	0.005	0.024	
6/26/2019 14:30					42.43251;-76.49817
6/26/2019 14:31			0.005	0.024	
6/26/2019 14:32			0.005	0.024	
6/26/2019 14:33			0.005	0.024	
6/26/2019 14:34			0.005	0.024	
6/26/2019 14:35	12.5	96.2	0.005	0.025	
6/26/2019 14:35					42.43253;-76.49819
6/26/2019 14:36			0.005	0.024	
6/26/2019 14:37			0.005	0.026	
6/26/2019 14:38			0.005	0.026	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/26/2019 14:39			0.005	0.025	
6/26/2019 14:40	12.6	103.2	0.005	0.026	
6/26/2019 14:40					42.43253;-76.49819
6/26/2019 14:41			0.006	0.025	
6/26/2019 14:42			0.006	0.026	
6/26/2019 14:43			0.006	0.026	
6/26/2019 14:44			0.006	0.026	
6/26/2019 14:45	12.5	90.1	0.006	0.026	42.43255;-76.49817
6/26/2019 14:46			0.006	0.024	
6/26/2019 14:47			0.006	0.024	
6/26/2019 14:48			0.006	0.025	
6/26/2019 14:49			0.006	0.025	
6/26/2019 14:50	12.5	95.1	0.006	0.025	
6/26/2019 14:50					42.43253;-76.49815
6/26/2019 14:51			0.006	0.025	
6/26/2019 14:52			0.006	0.028	
6/26/2019 14:53			0.006	0.027	
6/26/2019 14:54			0.006	0.027	
6/26/2019 14:55	12.5	115.4	0.006	0.025	42.43258;-76.49823
6/26/2019 14:56			0.006	0.025	
6/26/2019 14:57			0.006	0.025	
6/26/2019 14:58			0.006	0.025	
6/26/2019 14:59			0.006	0.025	
6/26/2019 15:00	12.5	95.1	0.007	0.025	42.43256;-76.49819
6/26/2019 15:01			0.007	0.025	
6/26/2019 15:02			0.007	0.026	
6/26/2019 15:03			0.007	0.025	
6/26/2019 15:04			0.007	0.026	
6/26/2019 15:05	12.5	90.1	0.007	0.026	42.43258;-76.49817
6/26/2019 15:06			0.007	0.026	
6/26/2019 15:07			0.007	0.027	
6/26/2019 15:08			0.007	0.027	
6/26/2019 15:09			0.007	0.026	
6/26/2019 15:10	12.5	101.2	0.007	0.026	42.43255;-76.49819
6/26/2019 15:11			0.007	0.026	
6/26/2019 15:12			0.007	0.026	
6/26/2019 15:13			0.007	0.026	
6/26/2019 15:14			0.007	0.026	
6/26/2019 15:15	12.5	95.1	0.007	0.026	42.4326;-76.49828
6/26/2019 15:16			0.007	0.026	
6/26/2019 15:17			0.007	0.026	
6/26/2019 15:18			0.007	0.026	
6/26/2019 15:19			0.008	0.027	
6/26/2019 15:20	12.5	90.1	0.008	0.026	
6/26/2019 15:20					42.43257;-76.49819
6/26/2019 15:21			0.008	0.026	
6/26/2019 15:22			0.008	0.026	
6/26/2019 15:23			0.008	0.026	
6/26/2019 15:24			0.008	0.026	
6/26/2019 15:25	12.5	117.4	0.008	0.026	42.43259;-76.49821
6/26/2019 15:26			0.008	0.026	
6/26/2019 15:27			0.008	0.026	
6/26/2019 15:28			0.008	0.026	
6/26/2019 15:29			0.008	0.025	
6/26/2019 15:30	12.5	93.1	0.008	0.025	42.43253;-76.49815
6/26/2019 15:31			0.008	0.025	
6/26/2019 15:32			0.008	0.025	
6/26/2019 15:33			0.008	0.026	
6/26/2019 15:34			0.008	0.026	
6/26/2019 15:35	12.5	92.1	0.008	0.026	42.43257;-76.49815
6/26/2019 15:36			0.008	0.026	
6/26/2019 15:37			0.009	0.025	
6/26/2019 15:38			0.009	0.025	
6/26/2019 15:39			0.009	0.025	
6/26/2019 15:40	12.5	97.2	0.009	0.025	42.43259;-76.49812
6/26/2019 15:41			0.009	0.025	
6/26/2019 15:42			0.009	0.026	
6/26/2019 15:43			0.009	0.025	
6/26/2019 15:44			0.009	0.025	
6/26/2019 15:45	12.5	89.1	0.009	0.026	42.43262;-76.49823
6/26/2019 15:46			0.009	0.026	
6/26/2019 15:47			0.009	0.025	
6/26/2019 15:48			0.009	0.026	
6/26/2019 15:49			0.009	0.026	
6/26/2019 15:50	12.5	91.1	0.009	0.026	42.43264;-76.49823
6/26/2019 15:51			0.009	0.026	
6/26/2019 15:52			0.009	0.026	
6/26/2019 15:53			0.009	0.026	
6/26/2019 15:54			0.009	0.026	
6/26/2019 15:55	12.5	98.2	0.009	0.026	42.43269;-76.49828
6/26/2019 15:56			0.01	0.026	
6/26/2019 15:57			0.01	0.026	
6/26/2019 15:58			0.01	0.025	
6/26/2019 15:59			0.01	0.026	
6/26/2019 16:00	12.5	93.1	0.01	0.026	42.43264;-76.49825
6/26/2019 16:01			0.01	0.026	
6/26/2019 16:02			0.01	0.026	
6/26/2019 16:03			0.01	0.026	
6/26/2019 16:04			0.01	0.026	
6/26/2019 16:05	12.5	91.1	0.01	0.026	42.43264;-76.49828
6/26/2019 16:06			0.01	0.026	
6/26/2019 16:07			0.01	0.026	
6/26/2019 16:08			0.01	0.026	
6/26/2019 16:09			0.01	0.026	
6/26/2019 16:10	12.5	101.2	0.01	0.026	42.43264;-76.49825
6/26/2019 16:11			0.01	0.025	
6/26/2019 16:12			0.01	0.025	
6/26/2019 16:13			0.01	0.026	
6/26/2019 16:14			0.01	0.026	
6/26/2019 16:15	12.5	90.1	0.011	0.026	42.43267;-76.4983
6/26/2019 16:16			0.011	0.025	
6/26/2019 16:17			0.011	0.025	
6/26/2019 16:18			0.011	0.026	
6/26/2019 16:19			0.011	0.025	
6/26/2019 16:20	12.5	92.1	0.011	0.025	42.43266;-76.49828
6/26/2019 16:21			0.011	0.026	
6/26/2019 16:22			0.011	0.026	
6/26/2019 16:23			0.011	0.026	
6/26/2019 16:24			0.011	0.026	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/26/2019 16:25	12.5	94.1	0.011	0.026	42.43267;-76.49828
6/26/2019 16:26			0.011	0.026	
6/26/2019 16:27			0.011	0.026	
6/26/2019 16:28			0.011	0.026	
6/26/2019 16:29			0.011	0.026	
6/26/2019 16:30	12.5	112.4	0.011	0.026	
6/26/2019 16:30					42.43266;-76.49825
6/26/2019 16:31			0.011	0.026	
6/26/2019 16:32			0.011	0.026	
6/26/2019 16:33			0.012	0.026	
6/26/2019 16:34			0.012	0.025	
6/26/2019 16:35	12.5	92.1	0.012	0.026	42.43264;-76.49823
6/26/2019 16:36			0.012	0.026	
6/26/2019 16:37			0.012	0.026	
6/26/2019 16:38			0.012	0.026	
6/26/2019 16:39			0.012	0.025	
6/26/2019 16:40	12.5	90.1	0.012	0.026	42.43263;-76.49825
6/26/2019 16:41			0.012	0.026	
6/26/2019 16:42			0.012	0.026	
6/26/2019 16:43			0.012	0.026	
6/26/2019 16:44			0.012	0.026	
6/26/2019 16:45	12.5	96.2	0.012	0.026	42.43266;-76.4983
6/26/2019 16:46			0.012	0.026	
6/26/2019 16:47			0.012	0.026	
6/26/2019 16:48			0.012	0.028	
6/26/2019 16:49			0.012	0.027	
6/26/2019 16:50	12.5	92.1	0.012	0.027	42.43261;-76.49828
6/26/2019 16:51			0.012	0.027	
6/26/2019 16:52			0.013	0.027	
6/26/2019 16:53			0.013	0.026	
6/26/2019 16:54			0.013	0.026	
6/26/2019 16:55	12.5	91.1	0.013	0.026	42.4326;-76.49828
6/26/2019 16:56			0.013	0.026	
6/26/2019 16:57			0.013	0.026	
6/26/2019 16:58			0.013	0.026	
6/26/2019 16:59			0.013	0.026	
6/26/2019 17:00	12.5	91.1	0.013	0.026	42.43263;-76.49828
6/26/2019 17:01			0.013	0.026	
6/26/2019 17:02			0.013	0.027	
6/26/2019 17:03			0.013	0.026	
6/26/2019 17:04			0.013	0.026	
6/26/2019 17:05	12.5	105.3	0.013	0.026	42.43259;-76.49825
6/26/2019 17:06			0.013	0.027	
6/26/2019 17:07			0.013	0.026	
6/26/2019 17:08			0.013	0.026	
6/26/2019 17:09			0.013	0.026	
6/26/2019 17:10	12.5	109.3	0.014	0.026	42.43259;-76.49823
6/26/2019 17:11			0.014	0.026	
6/26/2019 17:12			0.014	0.026	
6/26/2019 17:13			0.014	0.026	
6/26/2019 17:14			0.014	0.026	
6/26/2019 17:15	12.5	95.1	0.014	0.026	42.43259;-76.49823
6/26/2019 17:16			0.014	0.026	
6/26/2019 17:17			0.014	0.026	
6/26/2019 17:18			0.014	0.027	
6/26/2019 17:19			0.014	0.027	
6/26/2019 17:20	12.5	101.2	0.014	0.027	42.4326;-76.49825
6/26/2019 17:21			0.014	0.027	
6/26/2019 17:22			0.014	0.027	
6/26/2019 17:23			0.014	0.027	
6/26/2019 17:24			0.014	0.027	
6/26/2019 17:25	12.5	95.1	0.014	0.027	42.4326;-76.49821
6/26/2019 17:26			0.014	0.027	
6/26/2019 17:27			0.014	0.027	
6/26/2019 17:28			0.015	0.027	
6/26/2019 17:29			0.015	0.027	
6/26/2019 17:30	12.5	100.2	0.015	0.027	42.4326;-76.49821
6/26/2019 17:31			0.015	0.031	
6/26/2019 17:32			0.015	0.031	
6/26/2019 17:33			0.015	0.027	
6/26/2019 17:34			0.015	0.027	
6/26/2019 17:35	12.5	106.3	0.015	0.027	42.43259;-76.49825
6/26/2019 17:36			0.015	0.027	
6/26/2019 17:37			0.015	0.027	
6/26/2019 17:38			0.015	0.027	
6/26/2019 17:39			0.015	0.027	
6/26/2019 17:40	12.4	95.1	0.015	0.027	42.43259;-76.49823
6/26/2019 17:41			0.015	0.027	
6/26/2019 17:42			0.015	0.027	
6/26/2019 17:43			0.015	0.026	
6/26/2019 17:44			0.015	0.027	
6/26/2019 17:45	12.4	92.1	0.015	0.027	42.43259;-76.49823
6/26/2019 17:46			0.016	0.027	
6/26/2019 17:47			0.016	0.027	
6/26/2019 17:48			0.016	0.027	
6/26/2019 17:49			0.016	0.027	
6/26/2019 17:50	12.4	94.1	0.016	0.027	42.43259;-76.49819
6/26/2019 17:51			0.016	0.027	
6/26/2019 17:52			0.016	0.027	
6/26/2019 17:53			0.016	0.027	
6/26/2019 17:54			0.016	0.027	
6/26/2019 17:55	12.4	100.2	0.016	0.027	42.43261;-76.49817
6/26/2019 17:56			0.016	0.027	
6/26/2019 17:57			0.016	0.027	
6/26/2019 17:58			0.016	0.027	
6/26/2019 17:59			0.016	0.027	
6/26/2019 18:00	12.4	95.1	0.016	0.027	42.4326;-76.49819
6/26/2019 18:01			0.016	0.027	
6/26/2019 18:02			0.016	0.027	
6/26/2019 18:03			0.017	0.027	
6/26/2019 18:04			0.017	0.027	
6/26/2019 18:05	12.4	93.1	0.017	0.027	42.43259;-76.49819
6/26/2019 18:06			0.017	0.027	
6/26/2019 18:07			0.017	0.027	
6/26/2019 18:08			0.017	0.027	
6/26/2019 18:09			0.017	0.027	
6/26/2019 18:10	12.4	101.2	0.017	0.027	42.43258;-76.49817
6/26/2019 18:11			0.017	0.027	
6/26/2019 18:12			0.017	0.027	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/26/2019 18:13			0.017	0.027	
6/26/2019 18:14			0.017	0.027	
6/26/2019 18:15	12.4	92.1	0.017	0.026	42.43277;-76.49831
6/26/2019 18:16			0.017	0.027	
6/26/2019 18:17			0.017	0.028	
6/26/2019 18:18			0.017	0.028	
6/26/2019 18:19			0.017	0.027	
6/26/2019 18:20	12.4	100.2	0.017	0.027	42.43256;-76.49823
6/26/2019 18:21			0.018	0.027	
6/26/2019 18:22			0.018	0.028	
6/26/2019 18:23			0.018	0.027	
6/26/2019 18:24			0.018	0.027	
6/26/2019 18:25	12.4	92.1	0.018	0.029	42.43258;-76.49817
6/26/2019 18:26			0.018	0.028	
6/26/2019 18:27			0.018	0.027	
6/26/2019 18:28			0.018	0.027	
6/26/2019 18:29			0.018	0.027	
6/26/2019 18:30	12.4	98.2	0.018	0.028	42.43263;-76.49817
6/26/2019 18:31			0.018	0.028	
6/26/2019 18:32			0.018	0.028	
6/26/2019 18:33			0.018	0.028	
6/26/2019 18:34			0.018	0.028	
6/26/2019 18:35	12.4	95.1	0.018	0.029	42.43261;-76.49819
6/26/2019 18:36			0.018	0.028	
6/26/2019 18:37			0.018	0.028	
6/26/2019 18:38			0.019	0.028	
6/26/2019 18:39			0.019	0.028	
6/26/2019 18:40	12.4	94.1	0.019	0.028	42.43257;-76.49815
6/26/2019 18:41			0.019	0.028	
6/26/2019 18:42			0.019	0.028	
6/26/2019 18:43			0.019	0.028	
6/26/2019 18:44			0.019	0.028	
6/26/2019 18:45	12.4	94.1	0.019	0.028	42.43261;-76.49817
6/26/2019 18:46			0.019	0.028	
6/26/2019 18:47			0.019	0.028	
6/26/2019 18:48			0.019	0.028	
6/26/2019 18:49			0.019	0.028	
6/26/2019 18:50	12.4	91.1	0.019	0.028	42.43263;-76.49815
6/26/2019 18:51			0.019	0.028	
6/26/2019 18:52			0.019	0.029	
6/26/2019 18:53			0.019	0.029	
6/26/2019 18:54			0.019	0.028	
6/26/2019 18:55	12.4	95.1	0.02	0.029	42.4327;-76.49825
6/26/2019 18:56			0.02	0.028	
6/26/2019 18:57			0.02	0.029	
6/26/2019 18:58			0.02	0.029	
6/26/2019 18:59			0.02	0.029	
6/26/2019 19:00	12.4	93.1	0.02	0.029	42.43272;-76.49823
6/26/2019 19:01			0.02	0.031	
6/26/2019 19:02			0.02	0.028	
6/26/2019 19:03			0.02	0.028	
6/26/2019 19:04			0.02	0.036	
6/26/2019 19:05	12.4	97.2	0.02	0.036	42.43269;-76.49828
6/26/2019 19:06			0.02	0.029	
6/26/2019 19:07			0.02	0.053	
6/26/2019 19:08			0.02	0.045	
6/26/2019 19:09			0.02	0.029	
6/26/2019 19:10	12.4	91.1	0.021	0.029	42.43262;-76.4983
6/26/2019 19:11			0.021	0.028	
6/26/2019 19:12			0.021	0.028	
6/26/2019 19:13			0.021	0.037	
6/26/2019 19:14			0.021	0.028	
6/26/2019 19:15	12.4	104.3	0.021	0.028	42.43259;-76.49819
6/26/2019 19:16			0.021	0.028	
6/26/2019 19:17			0.021	0.028	
6/26/2019 19:18			0.021	0.028	
6/26/2019 19:19			0.021	0.028	
6/26/2019 19:20	12.4	102.2	0.021	0.029	42.43265;-76.49817
6/26/2019 19:21			0.021	0.029	
6/26/2019 19:22			0.021	0.028	
6/26/2019 19:23			0.021	0.029	
6/26/2019 19:24			0.021	0.028	
6/26/2019 19:25	12.4	102.2	0.021	0.028	42.43263;-76.49821
6/26/2019 19:26			0.021	0.029	
6/26/2019 19:27			0.022	0.028	
6/26/2019 19:28			0.022	0.028	
6/26/2019 19:29			0.022	0.028	
6/26/2019 19:30	12.4	95.1	0.022	0.029	42.43258;-76.49823
6/26/2019 19:31			0.022	0.028	
6/26/2019 19:32			0.022	0.028	
6/26/2019 19:33			0.022	0.028	
6/26/2019 19:34			0.022	0.029	
6/26/2019 19:35	12.4	101.2	0.022	0.029	42.43249;-76.49825
6/26/2019 19:36			0.022	0.028	
6/26/2019 19:37			0.022	0.029	
6/26/2019 19:38			0.022	0.028	
6/26/2019 19:39			0.022	0.028	
6/26/2019 19:40	12.4	98.2	0.022	0.028	42.43247;-76.49825
6/26/2019 19:41			0.022	0.029	
6/26/2019 19:42			0.022	0.029	
6/26/2019 19:43			0.022	0.029	
6/26/2019 19:44			0.023	0.029	
6/26/2019 19:45	12.4	95.1	0.023	0.029	42.43246;-76.4983
6/26/2019 19:46			0.023	0.029	
6/26/2019 19:47			0.023	0.029	
6/26/2019 19:48			0.023	0.03	
6/26/2019 19:49			0.023	0.03	
6/26/2019 19:50	12.3	97.2	0.023	0.03	42.43248;-76.49828
6/26/2019 19:51			0.023	0.032	
6/26/2019 19:52			0.023	0.03	
6/26/2019 19:53			0.023	0.031	
6/26/2019 19:54			0.023	0.031	
6/26/2019 19:55	12.3	99.2	0.023	0.03	42.43246;-76.49828
6/26/2019 19:56			0.023	0.031	
6/26/2019 19:57			0.023	0.031	
6/26/2019 19:58			0.023	0.03	
6/26/2019 19:59			0.023	0.031	
6/26/2019 20:00	12.3	91.1	0.024	0.031	42.43249;-76.49825
6/26/2019 20:01			0.024	0.031	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/26/2019 20:02			0.024	0.031	
6/26/2019 20:03			0.024	0.03	
6/26/2019 20:04			0.024	0.03	
6/26/2019 20:05	12.4	92.1	0.024	0.03	42.43245;-76.49828
6/26/2019 20:06			0.024	0.03	
6/26/2019 20:07			0.024	0.03	
6/26/2019 20:08			0.024	0.03	
6/26/2019 20:09			0.024	0.03	
6/26/2019 20:10	12.3	101.2	0.024	0.031	42.43255;-76.49825
6/26/2019 20:11			0.024	0.03	
6/26/2019 20:12			0.024	0.031	
6/26/2019 20:13			0.024	0.03	
6/26/2019 20:14			0.024	0.03	
6/26/2019 20:15	12.3	94.1	0.025	0.03	42.43253;-76.49828
6/26/2019 20:16			0.025	0.03	
6/26/2019 20:17			0.025	0.03	
6/26/2019 20:18			0.025	0.029	
6/26/2019 20:19			0.025	0.03	
6/26/2019 20:20	12.3	92.1	0.025	0.03	42.4325;-76.49823
6/26/2019 20:21			0.025	0.029	
6/26/2019 20:22			0.025	0.03	
6/26/2019 20:23			0.025	0.033	
6/26/2019 20:24			0.025	0.03	
6/26/2019 20:25	12.3	92.1	0.025	0.046	42.43257;-76.49825
6/27/2019 11:37					42.433541;-76.4985532
6/27/2019 11:39			0	0.032	
6/27/2019 11:40	12.7	95.1	0	0.032	
6/27/2019 11:40					42.43258;-76.49821
6/27/2019 11:41			0	0.032	
6/27/2019 11:42			0	0.031	
6/27/2019 11:43			0	0.031	
6/27/2019 11:44			0	0.031	
6/27/2019 11:45	12.7	88.1	0	0.031	
6/27/2019 11:45					42.43259;-76.49819
6/27/2019 11:46			0	0.031	
6/27/2019 11:47			0	0.031	
6/27/2019 11:48			0	0.031	
6/27/2019 11:49			0	0.03	
6/27/2019 11:50	12.7	88.1	0	0.03	42.43256;-76.49819
6/27/2019 11:51			0	0.03	
6/27/2019 11:52			0	0.03	
6/27/2019 11:53			0	0.03	
6/27/2019 11:54			0.001	0.03	
6/27/2019 11:55	12.7	89.1	0.001	0.029	42.43257;-76.49817
6/27/2019 11:56			0.001	0.03	
6/27/2019 11:57			0.001	0.029	
6/27/2019 11:58			0.001	0.029	
6/27/2019 11:59			0.001	0.029	
6/27/2019 12:00	12.7	97.2	0.001	0.029	
6/27/2019 12:00					42.43256;-76.49815
6/27/2019 12:01			0.001	0.029	
6/27/2019 12:02			0.001	0.029	
6/27/2019 12:03			0.002	0.029	
6/27/2019 12:04			0.002	0.029	
6/27/2019 12:05	12.7	89.1	0.002	0.03	42.43259;-76.4981
6/27/2019 12:06			0.002	0.03	
6/27/2019 12:07			0.002	0.03	
6/27/2019 12:08			0.002	0.029	
6/27/2019 12:09			0.002	0.029	
6/27/2019 12:10	12.7	90.1	0.002	0.029	42.43272;-76.49815
6/27/2019 12:11			0.002	0.029	
6/27/2019 12:12			0.002	0.03	
6/27/2019 12:13			0.002	0.03	
6/27/2019 12:14			0.002	0.029	
6/27/2019 12:15	12.7	91.1	0.002	0.029	
6/27/2019 12:15					42.4326;-76.49821
6/27/2019 12:16			0.002	0.029	
6/27/2019 12:17			0.002	0.029	
6/27/2019 12:18			0.002	0.029	
6/27/2019 12:19			0.003	0.029	
6/27/2019 12:20	12.7	90.1	0.003	0.029	
6/27/2019 12:20					42.43261;-76.49823
6/27/2019 12:21			0.003	0.029	
6/27/2019 12:22			0.003	0.03	
6/27/2019 12:23			0.003	0.03	
6/27/2019 12:24			0.003	0.03	
6/27/2019 12:25	12.7	100.2	0.003	0.03	
6/27/2019 12:25					42.43259;-76.49823
6/27/2019 12:26			0.003	0.03	
6/27/2019 12:27			0.003	0.03	
6/27/2019 12:28			0.003	0.03	
6/27/2019 12:29			0.003	0.03	
6/27/2019 12:30	12.7	89.1	0.003	0.03	
6/27/2019 12:30					42.43259;-76.49821
6/27/2019 12:31			0.003	0.031	
6/27/2019 12:32			0.003	0.031	
6/27/2019 12:33			0.003	0.031	
6/27/2019 12:34			0.003	0.032	
6/27/2019 12:35	12.7	95.1	0.004	0.032	42.43258;-76.49821
6/27/2019 12:36			0.004	0.032	
6/27/2019 12:37			0.004	0.031	
6/27/2019 12:38			0.004	0.031	
6/27/2019 12:39			0.004	0.031	
6/27/2019 12:40	12.7	95.1	0.004	0.031	42.43257;-76.49821
6/27/2019 12:41			0.004	0.03	
6/27/2019 12:42			0.004	0.03	
6/27/2019 12:43			0.004	0.03	
6/27/2019 12:44			0.004	0.03	
6/27/2019 12:45	12.7	99.2	0.004	0.031	
6/27/2019 12:46			0.004	0.03	
6/27/2019 12:47			0.004	0.03	
6/27/2019 12:48			0.004	0.03	
6/27/2019 12:49			0.004	0.031	
6/27/2019 12:50	12.7	99.2	0.004	0.031	
6/27/2019 12:51			0.005	0.031	
6/27/2019 12:52			0.005	0.032	
6/27/2019 12:53			0.005	0.031	
6/27/2019 12:54			0.005	0.031	
6/27/2019 12:55	12.7	99.2	0.005	0.032	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/27/2019 12:56			0.005	0.031	
6/27/2019 12:57			0.005	0.032	
6/27/2019 12:58			0.005	0.032	
6/27/2019 12:59			0.005	0.032	
6/27/2019 13:00	12.7	95.1	0.005	0.031	
6/27/2019 13:01			0.005	0.031	
6/27/2019 13:02			0.005	0.031	
6/27/2019 13:03			0.005	0.031	
6/27/2019 13:04			0.005	0.031	
6/27/2019 13:05	12.7	88.1	0.005	0.031	
6/27/2019 13:06			0.006	0.03	
6/27/2019 13:07			0.006	0.031	
6/27/2019 13:08			0.006	0.031	
6/27/2019 13:09			0.006	0.031	
6/27/2019 13:10	12.7	100.2	0.006	0.031	
6/27/2019 13:11			0.006	0.031	
6/27/2019 13:12			0.006	0.031	
6/27/2019 13:13			0.006	0.032	
6/27/2019 13:14			0.006	0.032	
6/27/2019 13:15	12.7	98.2	0.006	0.032	
6/27/2019 13:16			0.006	0.032	
6/27/2019 13:17			0.006	0.032	
6/27/2019 13:18			0.006	0.032	
6/27/2019 13:19			0.006	0.032	
6/27/2019 13:20	12.6	98.2	0.006	0.033	
6/27/2019 13:21			0.007	0.033	
6/27/2019 13:22			0.007	0.032	
6/27/2019 13:23			0.007	0.033	
6/27/2019 13:24			0.007	0.033	
6/27/2019 13:25	12.6	99.2	0.007	0.033	
6/27/2019 13:26			0.007	0.032	
6/27/2019 13:27			0.007	0.033	
6/27/2019 13:28			0.007	0.032	
6/27/2019 13:29			0.007	0.033	
6/27/2019 13:30	12.6	99.2	0.007	0.033	
6/27/2019 13:31			0.007	0.033	
6/27/2019 13:32			0.007	0.033	
6/27/2019 13:33			0.007	0.033	
6/27/2019 13:34			0.007	0.033	
6/27/2019 13:35	12.6	98.2	0.007	0.033	
6/27/2019 13:36			0.008	0.033	
6/27/2019 13:37			0.008	0.033	
6/27/2019 13:38			0.008	0.033	
6/27/2019 13:39			0.008	0.033	
6/27/2019 13:40	12.6	100.2	0.008	0.033	
6/27/2019 13:41			0.008	0.033	
6/27/2019 13:42			0.008	0.033	
6/27/2019 13:43			0.008	0.033	
6/27/2019 13:44			0.008	0.033	
6/27/2019 13:45	12.6	99.2	0.008	0.033	
6/27/2019 13:46			0.008	0.033	
6/27/2019 13:47			0.008	0.033	
6/27/2019 13:48			0.008	0.034	
6/27/2019 13:49			0.008	0.034	
6/27/2019 13:50	12.6	100.2	0.009	0.034	
6/27/2019 13:51			0.009	0.034	
6/27/2019 13:52			0.009	0.034	
6/27/2019 13:53			0.009	0.034	
6/27/2019 13:54			0.009	0.034	
6/27/2019 13:55	12.6	100.2	0.009	0.035	
6/27/2019 13:56			0.009	0.034	
6/27/2019 13:57			0.009	0.035	
6/27/2019 13:58			0.009	0.034	
6/27/2019 13:59			0.009	0.034	
6/27/2019 14:00	12.6	98.2	0.009	0.034	
6/27/2019 14:01			0.009	0.034	
6/27/2019 14:02			0.009	0.035	
6/27/2019 14:03			0.009	0.035	
6/27/2019 14:04			0.01	0.035	
6/27/2019 14:05	12.6	98.2	0.01	0.035	
6/27/2019 14:06			0.01	0.035	
6/27/2019 14:07			0.01	0.035	
6/27/2019 14:08			0.01	0.035	
6/27/2019 14:09			0.01	0.035	
6/27/2019 14:10	12.6	97.2	0.01	0.035	
6/27/2019 14:11			0.01	0.035	
6/27/2019 14:12			0.01	0.035	
6/27/2019 14:13			0.01	0.036	
6/27/2019 14:14			0.01	0.035	
6/27/2019 14:15	12.6	101.2	0.01	0.035	
6/27/2019 14:16			0.01	0.035	
6/27/2019 14:17			0.01	0.036	
6/27/2019 14:18			0.011	0.036	
6/27/2019 14:19			0.011	0.035	
6/27/2019 14:20	12.6	101.2	0.011	0.034	
6/27/2019 14:21			0.011	0.034	
6/27/2019 14:22			0.011	0.034	
6/27/2019 14:23			0.011	0.034	
6/27/2019 14:24			0.011	0.034	
6/27/2019 14:25	12.6	76.9	0.011	0.033	
6/27/2019 14:26			0.011	0.034	
6/27/2019 14:27			0.011	0.034	
6/27/2019 14:28			0.011	0.034	
6/27/2019 14:29			0.011	0.035	
6/27/2019 14:30	12.6	77.9	0.011	0.034	
6/27/2019 14:31			0.011	0.033	
6/27/2019 14:32			0.012	0.033	
6/27/2019 14:33			0.012	0.034	
6/27/2019 14:34			0.012	0.032	
6/27/2019 14:35	12.6	76.9	0.012	0.032	
6/27/2019 14:36			0.012	0.032	
6/27/2019 14:37			0.012	0.032	
6/27/2019 14:38			0.012	0.031	
6/27/2019 14:39			0.012	0.032	
6/27/2019 14:40	12.6	97.2	0.012	0.031	
6/27/2019 14:41			0.012	0.031	
6/27/2019 14:42			0.012	0.031	
6/27/2019 14:43			0.012	0.031	
6/27/2019 14:44			0.012	0.032	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/27/2019 14:45	12.6	76.9	0.012	0.032	
6/27/2019 14:46			0.012	0.031	
6/27/2019 14:47			0.013	0.033	
6/27/2019 14:48			0.013	0.032	
6/27/2019 14:49			0.013	0.032	
6/27/2019 14:50	12.6	79	0.013	0.032	
6/27/2019 14:51			0.013	0.032	
6/27/2019 14:52			0.013	0.032	
6/27/2019 14:53			0.013	0.032	
6/27/2019 14:54			0.013	0.032	
6/27/2019 14:55	12.6	77.9	0.013	0.031	
6/27/2019 14:56			0.013	0.031	
6/27/2019 14:57			0.013	0.031	
6/27/2019 14:58			0.013	0.031	
6/27/2019 14:59			0.013	0.031	
6/27/2019 15:00	12.6	77.9	0.013	0.03	
6/27/2019 15:01			0.013	0.03	
6/27/2019 15:02			0.014	0.03	
6/27/2019 15:03			0.014	0.029	
6/27/2019 15:04			0.014	0.03	
6/27/2019 15:05	12.6	77.9	0.014	0.03	
6/27/2019 15:06			0.014	0.029	
6/27/2019 15:07			0.014	0.03	
6/27/2019 15:08			0.014	0.03	
6/27/2019 15:09			0.014	0.03	
6/27/2019 15:10	12.6	76.9	0.014	0.03	
6/27/2019 15:11			0.014	0.03	
6/27/2019 15:12			0.014	0.03	
6/27/2019 15:13			0.014	0.03	
6/27/2019 15:14			0.014	0.031	
6/27/2019 15:15	12.6	76.9	0.014	0.03	
6/27/2019 15:16			0.014	0.03	
6/27/2019 15:17			0.014	0.03	
6/27/2019 15:18			0.015	0.031	
6/27/2019 15:19			0.015	0.031	
6/27/2019 15:20	12.6	77.9	0.015	0.031	
6/27/2019 15:21			0.015	0.031	
6/27/2019 15:22			0.015	0.031	
6/27/2019 15:23			0.015	0.031	
6/27/2019 15:24			0.015	0.031	
6/27/2019 15:25	12.6	77.9	0.015	0.031	
6/27/2019 15:26			0.015	0.031	
6/27/2019 15:27			0.015	0.033	
6/27/2019 15:28			0.015	0.033	
6/27/2019 15:29			0.015	0.033	
6/27/2019 15:30	12.6	76.9	0.015	0.033	
6/27/2019 15:31			0.015	0.033	
6/27/2019 15:32			0.015	0.033	
6/27/2019 15:33			0.016	0.033	
6/27/2019 15:34			0.016	0.033	
6/27/2019 15:35	12.6	79	0.016	0.033	
6/27/2019 15:36			0.016	0.033	
6/27/2019 15:37			0.016	0.033	
6/27/2019 15:38			0.016	0.033	
6/27/2019 15:39			0.016	0.032	
6/27/2019 15:40	12.6	76.9	0.016	0.032	
6/27/2019 15:41			0.016	0.032	
6/27/2019 15:42			0.016	0.032	
6/27/2019 15:43			0.016	0.033	
6/27/2019 15:44			0.016	0.032	
6/27/2019 15:45	12.6	79	0.016	0.032	
6/27/2019 15:46			0.016	0.032	
6/27/2019 15:47			0.016	0.032	
6/27/2019 15:48			0.017	0.032	
6/27/2019 15:49			0.017	0.032	
6/27/2019 15:50	12.6	76.9	0.017	0.032	
6/27/2019 15:51			0.017	0.032	
6/27/2019 15:52			0.017	0.032	
6/27/2019 15:53			0.017	0.032	
6/27/2019 15:54			0.017	0.032	
6/27/2019 15:55	12.6	77.9	0.017	0.032	
6/27/2019 15:56			0.017	0.033	
6/27/2019 15:57			0.017	0.033	
6/27/2019 15:58			0.017	0.033	
6/27/2019 15:59			0.017	0.033	
6/27/2019 16:00	12.6	76.9	0.017	0.033	
6/27/2019 16:01			0.017	0.033	
6/27/2019 16:02			0.017	0.033	
6/27/2019 16:03			0.018	0.032	
6/27/2019 16:04			0.018	0.032	
6/27/2019 16:05	12.6	81	0.018	0.032	
6/27/2019 16:06			0.018	0.032	
6/27/2019 16:07			0.018	0.032	
6/27/2019 16:08			0.018	0.032	
6/27/2019 16:09			0.018	0.033	
6/27/2019 16:10	12.6	75.9	0.018	0.032	
6/27/2019 16:11			0.018	0.032	
6/27/2019 16:12			0.018	0.032	
6/27/2019 16:13			0.018	0.033	
6/27/2019 16:14			0.018	0.032	
6/27/2019 16:15	12.5	83	0.018	0.033	
6/27/2019 16:16			0.018	0.032	
6/27/2019 16:17			0.018	0.032	
6/27/2019 16:18			0.019	0.032	
6/27/2019 16:19			0.019	0.032	
6/27/2019 16:20	12.6	79	0.019	0.032	
6/27/2019 16:21			0.019	0.032	
6/27/2019 16:22			0.019	0.032	
6/27/2019 16:23			0.019	0.032	
6/27/2019 16:24			0.019	0.032	
6/27/2019 16:25	12.5	77.9	0.019	0.032	
6/27/2019 16:26			0.019	0.032	
6/27/2019 16:27			0.019	0.032	
6/27/2019 16:28			0.019	0.032	
6/27/2019 16:29			0.019	0.031	
6/27/2019 16:30	12.5	79	0.019	0.032	
6/27/2019 16:31			0.019	0.032	
6/27/2019 16:32			0.019	0.032	
6/27/2019 16:33			0.02	0.032	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/27/2019 16:34			0.02	0.032	
6/27/2019 16:35	12.5	76.9	0.02	0.032	
6/27/2019 16:36			0.02	0.033	
6/27/2019 16:37			0.02	0.032	
6/27/2019 16:38			0.02	0.032	
6/27/2019 16:39			0.02	0.032	
6/27/2019 16:40	12.5	79	0.02	0.032	
6/27/2019 16:41			0.02	0.032	
6/27/2019 16:42			0.02	0.032	
6/27/2019 16:43			0.02	0.032	
6/27/2019 16:44			0.02	0.032	
6/27/2019 16:45	12.5	79	0.02	0.032	
6/27/2019 16:46			0.02	0.032	
6/27/2019 16:47			0.02	0.033	
6/27/2019 16:48			0.021	0.034	
6/27/2019 16:49			0.021	0.034	
6/27/2019 16:50	12.5	76.9	0.021	0.033	
6/27/2019 16:51			0.021	0.034	
6/27/2019 16:52			0.021	0.033	
6/27/2019 16:53			0.021	0.032	
6/27/2019 16:54			0.021	0.032	
6/27/2019 16:55	12.5	80	0.021	0.033	
6/27/2019 16:56			0.021	0.033	
6/27/2019 16:57			0.021	0.032	
6/27/2019 16:58			0.021	0.033	
6/27/2019 16:59			0.021	0.033	
6/27/2019 17:00	12.5	79	0.021	0.033	
6/27/2019 17:01			0.021	0.033	
6/27/2019 17:02			0.022	0.033	
6/27/2019 17:03			0.022	0.033	
6/27/2019 17:04			0.022	0.033	
6/27/2019 17:05	12.5	77.9	0.022	0.033	
6/27/2019 17:06			0.022	0.033	
6/27/2019 17:07			0.022	0.033	
6/27/2019 17:08			0.022	0.033	
6/27/2019 17:09			0.022	0.033	
6/27/2019 17:10	12.5	76.9	0.022	0.033	
6/27/2019 17:11			0.022	0.033	
6/27/2019 17:12			0.022	0.033	
6/27/2019 17:13			0.022	0.033	
6/27/2019 17:14			0.022	0.033	
6/27/2019 17:15	12.5	97.2	0.022	0.032	
6/27/2019 17:15					42.4334989;-76.4989046
6/27/2019 17:16			0.022	0.033	
6/27/2019 17:17			0.023	0.033	
6/27/2019 17:18			0.023	0.033	
6/27/2019 17:19			0.023	0.033	
6/27/2019 17:20	12.5	80	0.023	0.033	
6/27/2019 17:21			0.023	0.033	
6/27/2019 17:22			0.023	0.033	
6/27/2019 17:23			0.023	0.033	
6/27/2019 17:24			0.023	0.034	
6/27/2019 17:25	12.5	76.9	0.023	0.034	
6/27/2019 17:26			0.023	0.034	
6/27/2019 17:27			0.023	0.033	
6/27/2019 17:28			0.023	0.033	
6/27/2019 17:29			0.023	0.033	
6/27/2019 17:30	12.5	77.9	0.023	0.033	
6/27/2019 17:31			0.024	0.033	
6/27/2019 17:32			0.024	0.033	
6/27/2019 17:33			0.024	0.033	
6/27/2019 17:34			0.024	0.033	
6/27/2019 17:35	12.5	77.9	0.024	0.033	
6/27/2019 17:36			0.024	0.034	
6/27/2019 17:37			0.024	0.033	
6/27/2019 17:38			0.024	0.033	
6/27/2019 17:39			0.024	0.033	
6/27/2019 17:40	12.5	79	0.024	0.034	
6/27/2019 17:41			0.024	0.034	
6/27/2019 17:42			0.024	0.034	
6/27/2019 17:43			0.024	0.034	
6/27/2019 17:44			0.024	0.033	
6/27/2019 17:45	12.5	77.9	0.024	0.034	
6/27/2019 17:46			0.025	0.033	
6/27/2019 17:47			0.025	0.034	
6/27/2019 17:48			0.025	0.034	
6/27/2019 17:49			0.025	0.034	
6/27/2019 17:50	12.5	77.9	0.025	0.033	
6/27/2019 17:51			0.025	0.033	
6/27/2019 17:52			0.025	0.033	
6/27/2019 17:53			0.025	0.033	
6/27/2019 17:54			0.025	0.033	
6/27/2019 17:55	12.5	79	0.025	0.034	
6/27/2019 17:56			0.025	0.034	
6/27/2019 17:57			0.025	0.034	
6/27/2019 17:58			0.025	0.033	
6/27/2019 17:59			0.025	0.033	
6/27/2019 18:00	12.5	79	0.026	0.033	
6/27/2019 18:01			0.026	0.034	
6/27/2019 18:02			0.026	0.034	
6/27/2019 18:03			0.026	0.033	
6/27/2019 18:04			0.026	0.033	
6/27/2019 18:05	12.5	79	0.026	0.034	
6/27/2019 18:06			0.026	0.033	
6/27/2019 18:07			0.026	0.034	
6/27/2019 18:08			0.026	0.034	
6/27/2019 18:09			0.026	0.034	
6/27/2019 18:10	12.5	80	0.026	0.033	
6/27/2019 18:11			0.026	0.034	
6/27/2019 18:12			0.026	0.033	
6/27/2019 18:13			0.026	0.033	
6/27/2019 18:14			0.026	0.03	
6/27/2019 18:15	12.5	100.2	0.027	0.033	
6/27/2019 18:16			0.027	0.034	
6/27/2019 18:17			0.027	0.034	
6/27/2019 18:18			0.027	0.034	
6/27/2019 18:19			0.027	0.034	
6/27/2019 18:20	12.5	96.2	0.027	0.034	
6/27/2019 18:21			0.027	0.034	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/27/2019 18:22			0.027	0.034	
6/27/2019 18:23			0.027	0.034	
6/27/2019 18:24			0.027	0.034	
6/27/2019 18:25	12.5	89.1	0.027	0.034	
6/27/2019 18:26			0.027	0.034	
6/27/2019 18:27			0.027	0.034	
6/27/2019 18:28			0.027	0.035	
6/27/2019 18:29			0.028	0.034	
6/27/2019 18:30	12.4	101.2	0.028	0.034	
6/27/2019 18:31			0.028	0.034	
6/27/2019 18:32			0.028	0.034	
6/27/2019 18:33			0.028	0.034	
6/27/2019 18:34			0.028	0.035	
6/27/2019 18:35	12.4	101.2	0.028	0.035	
6/27/2019 18:36			0.028	0.034	
6/27/2019 18:37			0.028	0.034	
6/27/2019 18:38			0.028	0.034	
6/27/2019 18:39			0.028	0.034	
6/27/2019 18:40	12.4	101.2	0.028	0.035	
6/27/2019 18:41			0.028	0.034	
6/27/2019 18:42			0.028	0.034	
6/27/2019 18:43			0.029	0.035	
6/27/2019 18:44			0.029	0.034	
6/27/2019 18:45	12.4	80	0.029	0.035	
6/27/2019 18:46			0.029	0.035	
6/27/2019 18:47			0.029	0.035	
6/27/2019 18:48			0.029	0.035	
6/27/2019 18:49			0.029	0.035	
6/27/2019 18:50	12.4	101.2	0.029	0.034	
6/27/2019 18:51			0.029	0.034	
6/27/2019 18:52			0.029	0.034	
6/27/2019 18:53			0.029	0.034	
6/27/2019 18:54			0.029	0.034	
6/27/2019 18:55	12.4	100.2	0.029	0.035	
6/27/2019 18:56			0.029	0.035	
6/27/2019 18:57			0.03	0.035	
6/27/2019 18:58			0.03	0.034	
6/27/2019 18:59			0.03	0.035	
6/27/2019 19:00	12.4	99.2	0.03	0.035	
6/27/2019 19:01			0.03	0.035	
6/27/2019 19:02			0.03	0.034	
6/27/2019 19:03			0.03	0.035	
6/27/2019 19:04			0.03	0.035	
6/27/2019 19:05	12.4	100.2	0.03	0.035	
6/27/2019 19:06			0.03	0.089	
6/27/2019 19:07			0.03	0.036	
6/27/2019 19:08			0.03	0.035	
6/27/2019 19:09			0.031	0.035	
6/27/2019 19:10	12.4	86	0.031	0.035	
6/27/2019 19:11			0.031	0.035	
6/27/2019 19:12			0.031	0.035	
6/27/2019 19:13			0.031	0.035	
6/27/2019 19:14			0.031	0.035	
6/27/2019 19:15	12.4	80	0.031	0.035	
6/27/2019 19:16			0.031	0.035	
6/27/2019 19:17			0.031	0.035	
6/27/2019 19:18			0.031	0.035	
6/27/2019 19:19			0.031	0.035	
6/27/2019 19:20	12.4	99.2	0.031	0.034	
6/27/2019 19:21			0.031	0.035	
6/27/2019 19:22			0.031	0.035	
6/27/2019 19:23			0.032	0.035	
6/27/2019 19:24			0.032	0.036	
6/27/2019 19:25	12.4	99.2	0.032	0.035	
6/27/2019 19:26			0.032	0.035	
6/27/2019 19:27			0.032	0.035	
6/27/2019 19:28			0.032	0.035	
6/27/2019 19:29			0.032	0.035	
6/27/2019 19:30	12.4	100.2	0.032	0.035	
6/27/2019 19:31			0.032	0.035	
6/27/2019 19:32			0.032	0.035	
6/27/2019 19:33			0.032	0.035	
6/27/2019 19:34			0.032	0.036	
6/27/2019 19:35	12.4	95.1	0.032	0.035	
6/27/2019 19:36			0.033	0.035	
6/27/2019 19:37			0.033	0.035	
6/27/2019 19:38			0.033	0.035	
6/27/2019 19:39			0.033	0.035	
6/27/2019 19:40	12.4	79	0.033	0.035	
6/27/2019 19:41			0.033	0.035	
6/27/2019 19:42			0.033	0.035	
6/27/2019 19:43			0.033	0.035	
6/27/2019 19:44			0.033	0.035	
6/27/2019 19:45	12.4	81	0.033	0.036	
6/27/2019 19:46			0.033	0.035	
6/27/2019 19:47			0.033	0.036	
6/27/2019 19:48			0.033	0.036	
6/27/2019 19:49			0.033	0.036	
6/27/2019 19:50	12.4	81	0.033	0.036	
6/27/2019 19:51			0.033	0.036	
6/27/2019 19:52			0.033	0.035	
6/27/2019 19:53			0.033	0.035	
6/27/2019 19:54			0.033	0.035	
6/27/2019 19:55	12.4	79	0.033	0.035	
6/27/2019 19:56			0.033	0.037	
6/27/2019 19:57			0.033	0.037	
6/27/2019 19:58			0.033	0.036	
6/27/2019 19:59			0.033	0.035	
6/27/2019 20:00	12.4	79	0.033	0.035	
6/27/2019 20:01			0.033	0.036	
6/27/2019 20:02			0.033	0.036	
6/27/2019 20:03			0.033	0.036	
6/27/2019 20:04			0.033	0.036	
6/27/2019 20:05	12.4	81	0.033	0.036	
6/27/2019 20:06			0.033	0.036	
6/27/2019 20:07			0.033	0.036	
6/27/2019 20:08			0.033	0.037	
6/27/2019 20:09			0.033	0.037	
6/27/2019 20:10	12.4	80	0.033	0.036	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/27/2019 20:11			0.033	0.036	
6/27/2019 20:12			0.033	0.037	
6/27/2019 20:13			0.033	0.037	
6/27/2019 20:14			0.033	0.036	
6/27/2019 20:15	12.4	81	0.033	0.037	
6/27/2019 20:16			0.033	0.036	
6/27/2019 20:17			0.033	0.038	
6/27/2019 20:18			0.033	0.037	
6/27/2019 20:19			0.033	0.037	
6/27/2019 20:20	12.4	79	0.033	0.037	
6/27/2019 20:21			0.033	0.037	
6/27/2019 20:22			0.033	0.037	
6/27/2019 20:23			0.033	0.037	
6/27/2019 20:24			0.033	0.036	
6/27/2019 20:25	12.3	79	0.033	0.037	
6/27/2019 20:26			0.033	0.037	
6/27/2019 20:27			0.033	0.039	
6/27/2019 20:28			0.033	0.038	
6/27/2019 20:29			0.033	0.037	
6/27/2019 20:30	12.4	80	0.033	0.037	
6/27/2019 20:31			0.033	0.037	
6/27/2019 20:32			0.033	0.037	
6/27/2019 20:33			0.033	0.037	
6/27/2019 20:34			0.033	0.037	
6/27/2019 20:35	12.3	80	0.033	0.037	
6/27/2019 20:36			0.033	0.037	
6/27/2019 20:37			0.033	0.037	
6/27/2019 20:38			0.033	0.037	
6/27/2019 20:39			0.033	0.038	
6/27/2019 20:40	12.3	102.2	0.033	0.037	
6/27/2019 20:41			0.033	0.037	
6/27/2019 20:42			0.033	0.038	
6/27/2019 20:43			0.033	0.038	
6/27/2019 20:44			0.033	0.037	
6/27/2019 20:45	12.3	120.5	0.033	0.037	
6/27/2019 20:46			0.033	0.038	
6/27/2019 20:47			0.033	0.038	
6/27/2019 20:48			0.033	0.038	
6/27/2019 20:49			0.033	0.038	
6/27/2019 20:50	12.3	79	0.033	0.038	
6/27/2019 20:51			0.033	0.038	
6/27/2019 20:52			0.033	0.038	
6/27/2019 20:53			0.033	0.037	
6/27/2019 20:54			0.033	0.037	
6/27/2019 20:55	12.3	103.2	0.033	0.038	
6/27/2019 20:56			0.033	0.038	
6/27/2019 20:57			0.033	0.038	
6/27/2019 20:58			0.033	0.038	
6/27/2019 20:59			0.033	0.041	
6/27/2019 21:00	12.3	101.2	0.033	0.038	
6/27/2019 21:01			0.033	0.038	
6/27/2019 21:02			0.033	0.037	
6/27/2019 21:03			0.033	0.038	
6/27/2019 21:04			0.033	0.038	
6/27/2019 21:05	12.3	102.2	0.033	0.037	
6/27/2019 21:06			0.033	0.038	
6/27/2019 21:07			0.033	0.038	
6/27/2019 21:08			0.033	0.037	
6/27/2019 21:09			0.033	0.037	
6/27/2019 21:10	12.3	100.2	0.033	0.038	
6/27/2019 21:11			0.033	0.038	
6/27/2019 21:12			0.033	0.038	
6/27/2019 21:13			0.033	0.038	
6/27/2019 21:14			0.033	0.038	
6/27/2019 21:15	12.3	100.2	0.033	0.038	
6/27/2019 21:16			0.033	0.038	
6/27/2019 21:17			0.033	0.038	
6/27/2019 21:18			0.033	0.038	
6/27/2019 21:19			0.033	0.038	
6/27/2019 21:20	12.3	101.2	0.033	0.038	
6/27/2019 21:21			0.033	0.038	
6/27/2019 21:22			0.033	0.038	
6/27/2019 21:23			0.033	0.038	
6/27/2019 21:24			0.033	0.038	
6/27/2019 21:25	12.3	100.2	0.033	0.038	
6/27/2019 21:26			0.033	0.038	
6/27/2019 21:27			0.033	0.038	
6/27/2019 21:28			0.033	0.038	
6/27/2019 21:29			0.033	0.038	
6/27/2019 21:30	12.3	97.2	0.033	0.038	
6/27/2019 21:31			0.033	0.038	
6/27/2019 21:32			0.033	0.039	
6/27/2019 21:33			0.033	0.039	
6/27/2019 21:34			0.033	0.039	
6/27/2019 21:35	12.3	104.3	0.033	0.038	
6/27/2019 21:36			0.033	0.042	
7/10/2019 11:38	12.7	148.8			
7/10/2019 11:40	12.6	87			
7/10/2019 11:45	12.6	89.1			42.43325;-76.49725
7/10/2019 11:50	12.6	93.1			42.43324;-76.49722
7/10/2019 11:55	12.6	87			42.43332;-76.49722
7/10/2019 12:00	12.6	87			42.4333;-76.49727
7/10/2019 12:05	12.6	89.1			42.43328;-76.49725
7/10/2019 12:10	12.6	107.3			
7/10/2019 12:10					42.4333;-76.49728
7/10/2019 12:15	12.7	92.1			
7/10/2019 12:15					42.43329;-76.49731
7/10/2019 12:20	12.6	91.1			
7/10/2019 12:20					42.4332;-76.4974
7/10/2019 12:25	12.6	106.3			
7/10/2019 12:25					42.43322;-76.49754
7/10/2019 12:30	12.7	92.1			42.43324;-76.49741
7/10/2019 12:35	12.7	87			42.43322;-76.49731
7/10/2019 12:40	12.6	92.1			42.43321;-76.49731
7/10/2019 12:45	12.7	93.1			
7/10/2019 12:45					42.43321;-76.49728
7/10/2019 12:50	12.6	97.2			42.43321;-76.49722
7/10/2019 12:55	12.6	104.3			42.43322;-76.49725
7/10/2019 13:00	12.6	94.1			42.43322;-76.49722

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/10/2019 13:05	12.6	87			42.43318;-76.49725
7/10/2019 13:10	12.6	93.1			
7/10/2019 13:10					42.43324;-76.49722
7/10/2019 13:15	12.6	90.1			
7/10/2019 13:15					42.43324;-76.49727
7/10/2019 13:20	12.6	89.1			
7/10/2019 13:20					42.43312;-76.49722
7/10/2019 13:25	12.6	91.1			
7/10/2019 13:25					42.43315;-76.49725
7/10/2019 13:30	12.6	104.3			
7/10/2019 13:30					42.43315;-76.49725
7/10/2019 13:35	12.6	89.1			42.43314;-76.49727
7/10/2019 13:40	12.6	90.1			42.43314;-76.49728
7/10/2019 13:45	12.6	92.1			42.4331;-76.49728
7/10/2019 13:50	12.6	90.1			
7/10/2019 13:50					42.43316;-76.49725
7/10/2019 13:55	12.6	88.1			
7/10/2019 13:55					42.43324;-76.49716
7/10/2019 14:00	12.6	89.1			42.43324;-76.49722
7/10/2019 14:05	12.6	99.2			
7/10/2019 14:05					42.4332;-76.49731
7/10/2019 14:10	12.6	86			
7/10/2019 14:10					42.43324;-76.49728
7/10/2019 14:15	12.6	87			42.43319;-76.49722
7/10/2019 14:20	12.6	88.1			42.43325;-76.49722
7/10/2019 14:25	12.6	88.1			42.43322;-76.49722
7/10/2019 14:30	12.6	88.1			42.43325;-76.49722
7/10/2019 14:35	12.6	90.1			42.43325;-76.49722
7/10/2019 14:40	12.6	96.2			
7/10/2019 14:40					42.43327;-76.49722
7/10/2019 14:45	12.6	95.1			
7/10/2019 14:45					42.43324;-76.4972
7/10/2019 14:50	12.6	98.2			
7/10/2019 14:50					42.43325;-76.49725
7/10/2019 14:55	12.6	89.1			
7/10/2019 14:55					42.43328;-76.49731
7/10/2019 15:00	12.6	88.1			42.43328;-76.49733
7/10/2019 15:05	12.6	100.2			42.43328;-76.49733
7/10/2019 15:10	12.6	88.1			42.4333;-76.49728
7/10/2019 15:15	12.6	90.1			42.43328;-76.49731
7/10/2019 15:20	12.6	89.1			42.43325;-76.49731
7/10/2019 15:25	12.6	87			
7/10/2019 15:25					42.43325;-76.49731
7/10/2019 15:30	12.6	89.1			
7/10/2019 15:30					42.43329;-76.49731
7/10/2019 15:35	12.6	90.1			
7/10/2019 15:35					42.43325;-76.49727
7/10/2019 15:40	12.6	91.1			
7/10/2019 15:40					42.43322;-76.4972
7/10/2019 15:45	12.6	94.1			
7/10/2019 15:45					42.43328;-76.49722
7/10/2019 15:50	12.6	93.1			42.43332;-76.49725
7/10/2019 15:55	12.6	87			42.43328;-76.49725
7/10/2019 16:00	12.6	88.1			42.43324;-76.49727
7/10/2019 16:05	12.6	116.4			42.43334;-76.49727
7/10/2019 16:10	12.6	88.1			
7/10/2019 16:10					42.43331;-76.4972
7/10/2019 16:15	12.6	88.1			
7/10/2019 16:15					42.43325;-76.49722
7/10/2019 16:20	12.6	88.1			
7/10/2019 16:20					42.43322;-76.49722
7/10/2019 16:25	12.6	90.1			
7/10/2019 16:25					42.43324;-76.4972
7/10/2019 16:30	12.6	103.2			
7/10/2019 16:30					42.43325;-76.49722
7/10/2019 16:35	12.6	88.1			42.43327;-76.49722
7/10/2019 16:40	12.6	90.1			42.43328;-76.49722
7/10/2019 16:45	12.6	88.1			42.43324;-76.49716
7/10/2019 16:50	12.6	91.1			42.43314;-76.49735
7/10/2019 16:55	12.6	90.1			42.43324;-76.49718
7/10/2019 17:00	12.6	91.1			
7/10/2019 17:00					42.43324;-76.49718
7/10/2019 17:05	12.6	87			
7/10/2019 17:05					42.43322;-76.49716
7/10/2019 17:10	12.6	89.1			
7/10/2019 17:10					42.43321;-76.49718
7/10/2019 17:15	12.6	89.1			
7/10/2019 17:15					42.43322;-76.4972
7/10/2019 17:20	12.6	91.1			
7/10/2019 17:20					42.43324;-76.4972
7/10/2019 17:25	12.6	89.1			42.43324;-76.49722
7/10/2019 17:30	12.6	88.1			42.43341;-76.49735
7/10/2019 17:35	12.6	91.1			42.43329;-76.4972
7/10/2019 17:40	12.6	98.2			42.43325;-76.4972
7/10/2019 17:45	12.6	88.1			42.43327;-76.49722
7/10/2019 17:50	12.6	100.2			
7/10/2019 17:50					42.43332;-76.49725
7/10/2019 17:55	12.6	93.1			
7/10/2019 17:55					42.43333;-76.49727
7/10/2019 18:00	12.5	98.2			
7/10/2019 18:00					42.43331;-76.49722
7/10/2019 18:05	12.6	89.1			
7/10/2019 18:05					42.43324;-76.49722
7/10/2019 18:10	12.5	100.2			42.43327;-76.49727
7/10/2019 18:15	12.5	89.1			42.43327;-76.49728
7/10/2019 18:20	12.5	96.2			42.43331;-76.49731
7/10/2019 18:25	12.5	95.1			42.43329;-76.49728
7/10/2019 18:30	12.5	98.2			42.43328;-76.49727
7/10/2019 18:35	12.5	95.1			
7/10/2019 18:35					42.43329;-76.49725
7/10/2019 18:40	12.5	97.2			
7/10/2019 18:40					42.43327;-76.49727
7/10/2019 18:45	12.5	89.1			
7/10/2019 18:45					42.43324;-76.49727
7/10/2019 18:50	12.5	90.1			
7/10/2019 18:50					42.43332;-76.49727
7/10/2019 18:55	12.5	90.1			42.43328;-76.49725
7/10/2019 19:00	12.5	89.1			42.43312;-76.49728
7/10/2019 19:05	12.5	94.1			42.4332;-76.49727

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/10/2019 19:10	12.5	89.1			42.43349;-76.49716
7/10/2019 19:15	12.5	103.2			42.43322;-76.4972
7/10/2019 19:20	12.5	96.2			
7/10/2019 19:20					42.43324;-76.49722
7/10/2019 19:25	12.5	91.1			
7/10/2019 19:25					42.43324;-76.49727
7/10/2019 19:30	12.5	90.1			
7/10/2019 19:30					42.43318;-76.49725
7/10/2019 19:35	12.5	89.1			
7/10/2019 19:35					42.43331;-76.49727
7/10/2019 19:40	12.5	89.1			42.43314;-76.49722
7/10/2019 19:45	12.5	88.1			42.43317;-76.49728
7/10/2019 19:50	12.5	90.1			42.43324;-76.49735
7/10/2019 19:55	12.5	89.1			42.43324;-76.49714
7/10/2019 20:00	12.5	89.1			42.43329;-76.49725
7/10/2019 20:05	12.5	89.1			
7/10/2019 20:05					42.43324;-76.49728
7/10/2019 20:10	12.5	89.1			42.43318;-76.49725
7/10/2019 20:15	12.5	94.1			42.43325;-76.49728
7/10/2019 20:20	12.5	91.1			42.43322;-76.49728
7/10/2019 20:25	12.5	91.1			42.43324;-76.49731
7/10/2019 20:30	12.5	88.1			42.4332;-76.49727
7/10/2019 20:35	12.5	95.1			
7/10/2019 20:35					42.43324;-76.49728
7/10/2019 20:40	12.5	95.1			
7/10/2019 20:40					42.43328;-76.49728
7/10/2019 20:45	12.5	101.2			
7/10/2019 20:45					42.43328;-76.49735
7/15/2019 13:41	12.6	112.4			
7/15/2019 13:42					42.433400999999996;-76.49806319999999
7/15/2019 13:44			0	-0.004	
7/15/2019 13:45	12.5	107.3	0	-0.006	
7/15/2019 13:45					42.43336;-76.49673
7/15/2019 13:46			0	-0.007	
7/15/2019 13:47			0	-0.007	
7/15/2019 13:48			0	-0.006	
7/15/2019 13:49			0	-0.007	
7/15/2019 13:50	12.5	128.6	0	-0.007	42.43309;-76.49714
7/15/2019 13:51			0	-0.007	
7/15/2019 13:52			0	-0.007	
7/15/2019 13:53			0	-0.008	
7/15/2019 13:54			0	-0.004	
7/15/2019 13:55	12.6	113.4	0	-0.004	42.43327;-76.49716
7/15/2019 13:56			0	-0.008	
7/15/2019 13:57			0	-0.007	
7/15/2019 13:58			0	-0.008	
7/15/2019 13:59			0	-0.008	
7/15/2019 14:00	12.6	110.3	0	-0.009	42.43328;-76.49731
7/15/2019 14:01			0	-0.009	
7/15/2019 14:02			0	-0.009	
7/15/2019 14:03			0	-0.008	
7/15/2019 14:04			0	-0.009	
7/15/2019 14:05	12.6	112.4	0	-0.009	
7/15/2019 14:05					42.43324;-76.49728
7/15/2019 14:06			0	-0.009	
7/15/2019 14:07			0	-0.009	
7/15/2019 14:08			0	-0.009	
7/15/2019 14:09			0	-0.008	
7/15/2019 14:10	12.6	119.4	0	-0.008	42.43321;-76.4972
7/15/2019 14:11			0	-0.008	
7/15/2019 14:12			0	0.003	
7/15/2019 14:13			0	-0.005	
7/15/2019 14:14			0	-0.007	
7/15/2019 14:15	12.6	113.4	0	-0.008	42.43325;-76.49727
7/15/2019 14:16			0	-0.007	
7/15/2019 14:17			0	-0.008	
7/15/2019 14:18			0	-0.007	
7/15/2019 14:19			0	-0.004	
7/15/2019 14:20	12.6	122.5	0	-0.001	42.43338;-76.4972
7/15/2019 14:21			0	-0.006	
7/15/2019 14:22			0	-0.007	
7/15/2019 14:23			0	-0.007	
7/15/2019 14:24			0	-0.007	
7/15/2019 14:25	12.6	127.5	0.001	-0.008	
7/15/2019 14:25					42.4333;-76.49725
7/15/2019 14:26			0.001	-0.007	
7/15/2019 14:27			0.001	-0.007	
7/15/2019 14:28			0.001	-0.007	
7/15/2019 14:29			0.001	-0.007	
7/15/2019 14:30	12.6	118.4	0.001	-0.007	42.43333;-76.49727
7/15/2019 14:31			0.001	-0.007	
7/15/2019 14:32			0.001	-0.007	
7/15/2019 14:33			0.001	-0.007	
7/15/2019 14:34			0.001	-0.007	
7/15/2019 14:35	12.6	115.4	0.001	-0.007	42.4333;-76.49725
7/15/2019 14:36			0.001	-0.007	
7/15/2019 14:37			0.001	-0.007	
7/15/2019 14:38			0.001	-0.007	
7/15/2019 14:39			0.001	-0.006	
7/15/2019 14:40	12.6	118.4	0.001	-0.006	
7/15/2019 14:40					42.43331;-76.49735
7/15/2019 14:41			0.001	-0.006	
7/15/2019 14:42			0.001	-0.006	
7/15/2019 14:43			0.001	-0.005	
7/15/2019 14:44			0.001	-0.006	
7/15/2019 14:45	12.6	117.4	0.001	-0.005	
7/15/2019 14:45					42.43324;-76.49744
7/15/2019 14:46			0.001	-0.005	
7/15/2019 14:47			0.001	-0.005	
7/15/2019 14:48			0.001	-0.005	
7/15/2019 14:49			0.001	-0.004	
7/15/2019 14:50	12.6	99.2	0.001	-0.001	42.4333;-76.49746
7/15/2019 14:51			0.001	0.026	
7/15/2019 14:52			0.001	-0.004	
7/15/2019 14:53			0.001	-0.004	
7/15/2019 14:54			0.001	-0.005	
7/15/2019 14:55	12.6	114.4	0.001	-0.004	42.43331;-76.49731
7/15/2019 14:56			0.001	-0.004	
7/15/2019 14:57			0.001	-0.004	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/15/2019 14:58			0.001	-0.004	
7/15/2019 14:59			0.001	-0.005	
7/15/2019 15:00	12.6	109.3	0.001	-0.005	42.43322;-76.49731
7/15/2019 15:01			0.001	-0.005	
7/15/2019 15:02			0.001	-0.004	
7/15/2019 15:03			0.001	-0.005	
7/15/2019 15:04			0.001	-0.003	
7/15/2019 15:05	12.6	123.5	0.001	-0.003	
7/15/2019 15:05					42.43325;-76.49722
7/15/2019 15:06			0.001	-0.004	
7/15/2019 15:07			0.001	-0.005	
7/15/2019 15:08			0.001	-0.006	
7/15/2019 15:09			0.001	-0.006	
7/15/2019 15:10	12.6	119.4	0.001	-0.005	42.43325;-76.49718
7/15/2019 15:11			0.001	-0.005	
7/15/2019 15:12			0.001	-0.005	
7/15/2019 15:13			0.001	-0.005	
7/15/2019 15:14			0.001	-0.005	
7/15/2019 15:15	12.6	124.5	0.001	-0.004	42.43327;-76.4972
7/15/2019 15:16			0.001	-0.005	
7/15/2019 15:17			0.001	-0.005	
7/15/2019 15:18			0.001	-0.005	
7/15/2019 15:19			0.001	-0.005	
7/15/2019 15:20	12.6	106.3	0.001	-0.005	
7/15/2019 15:20					42.4333;-76.49725
7/15/2019 15:21			0.001	-0.005	
7/15/2019 15:22			0.001	-0.005	
7/15/2019 15:23			0.001	-0.004	
7/15/2019 15:24			0.001	-0.005	
7/15/2019 15:25	12.6	110.3	0.001	-0.004	42.43331;-76.49725
7/15/2019 15:26			0.001	-0.005	
7/15/2019 15:27			0.001	-0.005	
7/15/2019 15:28			0.001	-0.005	
7/15/2019 15:29			0.001	-0.005	
7/15/2019 15:30	12.6	110.3	0.001	-0.004	
7/15/2019 15:30					42.43332;-76.49727
7/15/2019 15:31			0.001	-0.005	
7/15/2019 15:32			0.001	-0.005	
7/15/2019 15:33			0.001	-0.004	
7/15/2019 15:34			0.001	-0.004	
7/15/2019 15:35	12.6	117.4	0.001	-0.004	42.4333;-76.49727
7/15/2019 15:36			0.001	-0.004	
7/15/2019 15:37			0.001	-0.004	
7/15/2019 15:38			0.001	-0.004	
7/15/2019 15:39			0.001	-0.004	
7/15/2019 15:40	12.6	144.7	0.001	-0.003	
7/15/2019 15:40					42.43329;-76.49722
7/15/2019 15:41			0.001	-0.003	
7/15/2019 15:42			0.001	-0.004	
7/15/2019 15:43			0.001	-0.004	
7/15/2019 15:44			0.001	-0.004	
7/15/2019 15:45	12.6	112.4	0.001	-0.004	42.43332;-76.49728
7/15/2019 15:46			0.001	-0.004	
7/15/2019 15:47			0.001	-0.003	
7/15/2019 15:48			0.001	-0.003	
7/15/2019 15:49			0.001	-0.003	
7/15/2019 15:50	12.6	114.4	0.001	-0.002	42.43322;-76.49727
7/15/2019 15:51			0.001	-0.001	
7/15/2019 15:52			0.001	-0.001	
7/15/2019 15:53			0.001	-0.001	
7/15/2019 15:54			0.001	-0.002	
7/15/2019 15:55	12.6	118.4	0.001	-0.002	42.43319;-76.49725
7/15/2019 15:56			0.001	-0.003	
7/15/2019 15:57			0.001	-0.003	
7/15/2019 15:58			0.001	-0.002	
7/15/2019 15:59			0.001	-0.003	
7/15/2019 16:00	12.6	122.5	0.001	-0.003	42.43321;-76.49727
7/15/2019 16:01			0.001	-0.003	
7/15/2019 16:02			0.001	-0.003	
7/15/2019 16:03			0.001	-0.003	
7/15/2019 16:04			0.001	-0.003	
7/15/2019 16:05	12.6	116.4	0.001	-0.002	
7/15/2019 16:05					42.43324;-76.49727
7/15/2019 16:06			0.001	-0.002	
7/15/2019 16:07			0.001	-0.003	
7/15/2019 16:08			0.001	-0.002	
7/15/2019 16:09			0.001	-0.002	
7/15/2019 16:10	12.6	97.2	0.001	-0.002	42.43324;-76.49727
7/15/2019 16:11			0.001	-0.002	
7/15/2019 16:12			0.001	-0.002	
7/15/2019 16:13			0.001	-0.002	
7/15/2019 16:14			0.001	-0.002	
7/15/2019 16:15	12.5	146.8	0.001	-0.001	42.43325;-76.49727
7/15/2019 16:16			0.001	0	
7/15/2019 16:17			0.001	0.004	
7/15/2019 16:18			0.001	-0.001	
7/15/2019 16:19			0.001	-0.001	
7/15/2019 16:20	12.6	118.4	0.001	-0.001	
7/15/2019 16:20					42.43324;-76.49722
7/15/2019 16:21			0.001	-0.002	
7/15/2019 16:22			0.001	-0.002	
7/15/2019 16:23			0.001	-0.002	
7/15/2019 16:24			0.001	-0.002	
7/15/2019 16:25	12.5	121.5	0.001	-0.002	42.43306;-76.49707
7/15/2019 16:26			0.001	0.007	
7/15/2019 16:27			0.001	0.069	
7/15/2019 16:28			0.001	0	
7/15/2019 16:29			0.001	-0.001	
7/15/2019 16:30	12.5	129.6	0.001	-0.001	42.43321;-76.49718
7/15/2019 16:31			0.001	-0.001	
7/15/2019 16:32			0.001	-0.001	
7/15/2019 16:33			0.001	-0.001	
7/15/2019 16:34			0.001	0	
7/15/2019 16:35	12.6	116.4	0.001	0	42.43327;-76.49722
7/15/2019 16:36			0.001	0	
7/15/2019 16:37			0.001	0	
7/15/2019 16:38			0.001	0	
7/15/2019 16:39			0.001	0	
7/15/2019 16:40	12.6	115.4	0.001	0	42.43325;-76.49722

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/15/2019 16:41			0.001	0	
7/15/2019 16:42			0.001	0	
7/15/2019 16:43			0.001	0	
7/15/2019 16:44			0.001	0	
7/15/2019 16:45	12.6	113.4	0.001	0	
7/15/2019 16:45					42.43327;-76.49722
7/15/2019 16:46			0.001	0	
7/15/2019 16:47			0.001	0	
7/15/2019 16:48			0.001	0	
7/15/2019 16:49			0.001	0.001	
7/15/2019 16:50	12.5	149.8	0.001	0	42.43324;-76.4972
7/15/2019 16:51			0.001	0	
7/15/2019 16:52			0.001	0	
7/15/2019 16:53			0.001	0	
7/15/2019 16:54			0.001	0	
7/15/2019 16:55	12.5	145.8	0.001	0	42.43329;-76.49727
7/15/2019 16:56			0.001	0.001	
7/15/2019 16:57			0.001	0.001	
7/15/2019 16:58			0.001	0.001	
7/15/2019 16:59			0.001	0.002	
7/15/2019 17:00	12.5	142.7	0.001	0.002	42.43328;-76.49716
7/15/2019 17:01			0.001	0.003	
7/15/2019 17:02			0.001	0.002	
7/15/2019 17:03			0.001	0.002	
7/15/2019 17:04			0.001	0.003	
7/15/2019 17:05	12.5	144.7	0.001	0.003	
7/15/2019 17:05					42.43324;-76.49722
7/15/2019 17:06			0.001	0.004	
7/15/2019 17:07			0.001	0.003	
7/15/2019 17:08			0.001	0.004	
7/15/2019 17:09			0.001	0.004	
7/15/2019 17:10	12.5	148.8	0.001	0.004	
7/15/2019 17:10					42.43327;-76.49722
7/15/2019 17:11			0.001	0.004	
7/15/2019 17:12			0.001	0.005	
7/15/2019 17:13			0.001	0.005	
7/15/2019 17:14			0.001	0.005	
7/15/2019 17:15	12.5	141.7	0.001	0.005	
7/15/2019 17:15					42.43324;-76.49722
7/15/2019 17:16			0.001	0.006	
7/15/2019 17:17			0.001	0.007	
7/15/2019 17:18			0.001	0.006	
7/15/2019 17:19			0.001	0.006	
7/15/2019 17:20	12.5	148.8	0.001	0.006	42.43324;-76.4972
7/15/2019 17:21			0.001	0.007	
7/15/2019 17:22			0.001	0.007	
7/15/2019 17:23			0.001	0.007	
7/15/2019 17:24			0.001	0.008	
7/15/2019 17:25	12.5	148.8	0.001	0.008	
7/15/2019 17:25					42.43328;-76.49722
7/15/2019 17:26			0.001	0.008	
7/15/2019 17:27			0.001	0.008	
7/15/2019 17:28			0.001	0.009	
7/15/2019 17:29			0.001	0.009	
7/15/2019 17:30	12.5	148.8	0.001	0.01	
7/15/2019 17:30					42.43327;-76.49725
7/15/2019 17:31			0.001	0.01	
7/15/2019 17:32			0.001	0.01	
7/15/2019 17:33			0.001	0.01	
7/15/2019 17:34			0.001	0.01	
7/15/2019 17:35	12.5	144.7	0.001	0.011	
7/15/2019 17:35					42.43331;-76.49725
7/15/2019 17:36			0.001	0.011	
7/15/2019 17:37			0.001	0.011	
7/15/2019 17:38			0	0.012	
7/15/2019 17:39			0	0.012	
7/15/2019 17:40	12.5	149.8	0	0.013	42.43325;-76.49718
7/15/2019 17:41			0	0.012	
7/15/2019 17:42			0	0.132	
7/15/2019 17:43			0	0.023	
7/15/2019 17:44			0	0.014	
7/15/2019 17:45	12.5	142.7	0	0.015	42.43325;-76.49722
7/15/2019 17:46			0	0.014	
7/15/2019 17:47			0	0.015	
7/15/2019 17:48			0	0.015	
7/15/2019 17:49			0	0.015	
7/15/2019 17:50	12.5	144.7	0	0.015	42.43325;-76.49725
7/15/2019 17:51			0	0.015	
7/15/2019 17:52			0	0.015	
7/15/2019 17:53			0	0.016	
7/15/2019 17:54			0	0.021	
7/15/2019 17:55	12.5	144.7	0	0.016	42.43329;-76.49728
7/15/2019 17:56			0	0.016	
7/15/2019 17:57			0	0.017	
7/15/2019 17:58			0	0.016	
7/15/2019 17:59			0	0.017	
7/15/2019 18:00	12.5	142.7	0	0.017	42.43318;-76.49722
7/15/2019 18:01			0.001	0.017	
7/15/2019 18:02			0.001	0.017	
7/15/2019 18:03			0.001	0.017	
7/15/2019 18:04			0.001	0.018	
7/15/2019 18:05	12.5	150.8	0.001	0.018	
7/15/2019 18:05					42.43322;-76.49728
7/15/2019 18:06			0.001	0.017	
7/15/2019 18:07			0.001	0.018	
7/15/2019 18:08			0.001	0.017	
7/15/2019 18:09			0.001	0.019	
7/15/2019 18:10	12.5	146.8	0.001	0.018	42.4333;-76.49728
7/15/2019 18:11			0.001	0.018	
7/15/2019 18:12			0.001	0.018	
7/15/2019 18:13			0.001	0.018	
7/15/2019 18:14			0.001	0.018	
7/15/2019 18:15	12.5	143.7	0.001	0.018	42.43351;-76.4972
7/15/2019 18:16			0.001	0.018	
7/15/2019 18:17			0.001	0.018	
7/15/2019 18:18			0.001	0.019	
7/15/2019 18:19			0.001	0.018	
7/15/2019 18:20	12.5	144.7	0.001	0.018	42.43318;-76.49725
7/15/2019 18:21			0.001	0.019	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/15/2019 18:22			0.001	0.018	
7/15/2019 18:23			0.001	0.019	
7/15/2019 18:24			0.001	0.019	
7/15/2019 18:25	12.5	142.7	0.001	0.019	
7/15/2019 18:25					42.43316;-76.49727
7/15/2019 18:26			0.001	0.032	
7/15/2019 18:27			0.002	0.023	
7/15/2019 18:28			0.002	0.019	
7/15/2019 18:29			0.002	0.019	
7/15/2019 18:30	12.5	144.7	0.002	0.019	42.43322;-76.49744
7/15/2019 18:31			0.002	0.018	
7/15/2019 18:32			0.002	0.019	
7/15/2019 18:33			0.002	0.019	
7/15/2019 18:34			0.002	0.019	
7/15/2019 18:35	12.5	143.7	0.002	0.019	42.43316;-76.49735
7/15/2019 18:36			0.002	0.019	
7/15/2019 18:37			0.002	0.018	
7/15/2019 18:38			0.002	0.019	
7/15/2019 18:39			0.002	0.019	
7/15/2019 18:40	12.5	145.8	0.002	0.02	42.43321;-76.49731
7/15/2019 18:41			0.002	0.019	
7/15/2019 18:42			0.002	0.019	
7/15/2019 18:43			0.002	0.02	
7/15/2019 18:44			0.002	0.02	
7/15/2019 18:45	12.5	147.8	0.002	0.019	
7/15/2019 18:45					42.4332;-76.49731
7/15/2019 18:46			0.002	0.019	
7/15/2019 18:47			0.002	0.02	
7/15/2019 18:48			0.002	0.02	
7/15/2019 18:49			0.002	0.02	
7/15/2019 18:50	12.5	109.3	0.002	0.02	
7/15/2019 18:50					42.43315;-76.49725
7/15/2019 18:51			0.002	0.02	
7/15/2019 18:52			0.003	0.02	
7/15/2019 18:53			0.003	0.02	
7/15/2019 18:54			0.003	0.02	
7/15/2019 18:55	12.5	118.4	0.003	0.02	
7/15/2019 18:55					42.43314;-76.49722
7/15/2019 18:56			0.003	0.02	
7/15/2019 18:57			0.003	0.02	
7/15/2019 18:58			0.003	0.02	
7/15/2019 18:59			0.003	0.02	
7/15/2019 19:00	12.4	146.8	0.003	0.02	
7/15/2019 19:01			0.003	0.021	
7/15/2019 19:02			0.003	0.02	
7/15/2019 19:03			0.003	0.02	
7/15/2019 19:04			0.003	0.021	
7/15/2019 19:05	12.4	133.6	0.003	0.02	
7/15/2019 19:05					42.46305;-76.50552
7/15/2019 19:06			0.003	0.022	
7/15/2019 19:07			0.003	0.021	
7/15/2019 19:08			0.003	0.021	
7/15/2019 19:09			0.003	0.021	
7/15/2019 19:10	12.4	143.7	0.003	0.021	
7/15/2019 19:10					42.44919;-76.5025
7/15/2019 19:11			0.003	0.021	
7/15/2019 19:12			0.003	0.021	
7/15/2019 19:13			0.003	0.021	
7/15/2019 19:14			0.003	0.021	
7/15/2019 19:15	12.4	120.5	0.004	0.022	42.43404;-76.49754
7/15/2019 19:16			0.004	0.022	
7/15/2019 19:17			0.004	0.022	
7/15/2019 19:18			0.004	0.022	
7/15/2019 19:19			0.004	0.022	
7/15/2019 19:20	12.4	146.8	0.004	0.022	42.43328;-76.49733
7/15/2019 19:21			0.004	0.022	
7/15/2019 19:22			0.004	0.022	
7/15/2019 19:23			0.004	0.022	
7/15/2019 19:24			0.004	0.243	
7/15/2019 19:25	12.4	144.7	0.004	0.024	
7/15/2019 19:25					42.4333;-76.49728
7/15/2019 19:26			0.004	0.022	
7/15/2019 19:27			0.005	0.023	
7/15/2019 19:28			0.005	0.022	
7/15/2019 19:29			0.005	0.022	
7/15/2019 19:30	12.4	113.4	0.005	0.022	
7/15/2019 19:30					42.43324;-76.49733
7/15/2019 19:31			0.005	0.022	
7/15/2019 19:32			0.005	0.023	
7/15/2019 19:33			0.005	0.022	
7/15/2019 19:34			0.005	0.023	
7/15/2019 19:35	12.4	115.4	0.005	0.036	42.43324;-76.49731
7/15/2019 19:36			0.005	0.023	
7/15/2019 19:37			0.005	0.022	
7/15/2019 19:38			0.005	0.023	
7/15/2019 19:39			0.005	0.023	
7/15/2019 19:40	12.4	119.4	0.005	0.023	42.43328;-76.49738
7/15/2019 19:41			0.005	0.023	
7/15/2019 19:42			0.005	0.023	
7/15/2019 19:43			0.005	0.023	
7/15/2019 19:44			0.005	0.023	
7/15/2019 19:45	12.4	143.7	0.005	0.023	42.43329;-76.49731
7/15/2019 19:46			0.005	0.023	
7/15/2019 19:47			0.006	0.023	
7/15/2019 19:48			0.006	0.023	
7/15/2019 19:49			0.006	0.023	
7/15/2019 19:50	12.4	145.8	0.006	0.022	42.4333;-76.49728
7/15/2019 19:51			0.006	0.023	
7/15/2019 19:52			0.006	0.024	
7/15/2019 19:53			0.006	0.023	
7/15/2019 19:54			0.006	0.023	
7/15/2019 19:55	12.4	141.7	0.006	0.024	42.43328;-76.49733
7/15/2019 19:56			0.006	0.023	
7/15/2019 19:57			0.006	0.024	
7/15/2019 19:58			0.006	0.024	
7/15/2019 19:59			0.006	0.023	
7/15/2019 20:00	12.4	113.4	0.006	0.024	
7/15/2019 20:00					42.43321;-76.49733
7/15/2019 20:01			0.006	0.024	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/15/2019 20:02			0.006	0.024	
7/15/2019 20:03			0.006	0.024	
7/15/2019 20:04			0.006	0.024	
7/15/2019 20:05	12.4	116.4	0.006	0.024	42.43321;-76.49725
7/15/2019 20:06			0.006	0.024	
7/15/2019 20:07			0.006	0.025	
7/15/2019 20:08			0.007	0.025	
7/15/2019 20:09			0.007	0.025	
7/15/2019 20:10	12.4	132.6	0.007	0.024	
7/15/2019 20:10					42.43331;-76.49741
7/15/2019 20:11			0.007	0.025	
7/15/2019 20:12			0.007	0.025	
7/15/2019 20:13			0.007	0.025	
7/15/2019 20:14			0.007	0.025	
7/15/2019 20:15	12.4	122.5	0.007	0.025	
7/15/2019 20:15					42.43329;-76.49735
7/15/2019 20:16			0.007	0.025	
7/15/2019 20:17			0.007	0.025	
7/15/2019 20:18			0.007	0.026	
7/15/2019 20:19			0.007	0.025	
7/15/2019 20:20	12.4	113.4	0.007	0.025	
7/15/2019 20:20					42.43331;-76.49733
7/15/2019 20:21			0.007	0.025	
7/15/2019 20:22			0.007	0.026	
7/15/2019 20:23			0.007	0.026	
7/15/2019 20:24			0.007	0.026	
7/15/2019 20:25	12.4	136.6	0.007	0.026	42.43333;-76.49728
7/15/2019 20:26			0.007	0.026	
7/15/2019 20:27			0.008	0.027	
7/15/2019 20:28			0.008	0.026	
7/15/2019 20:29			0.008	0.026	
7/15/2019 20:30	12.4	148.8	0.008	0.026	
7/15/2019 20:30					42.43335;-76.49731
7/15/2019 20:31			0.008	0.027	
7/15/2019 20:32			0.008	0.027	
7/15/2019 20:33			0.008	0.026	
7/15/2019 20:34			0.008	0.026	
7/15/2019 20:35	12.4	157.9	0.008	0.026	42.43336;-76.49744
7/15/2019 20:36			0.008	0.026	
7/15/2019 20:37			0.008	0.026	
7/15/2019 20:38			0.008	0.026	
7/15/2019 20:39			0.008	0.026	
7/15/2019 20:40	12.4	143.7	0.008	0.026	42.43359;-76.49763
7/15/2019 20:41			0.008	0.027	
7/15/2019 20:42			0.008	0.026	
7/15/2019 20:43			0.009	0.29	
7/15/2019 20:44			0.009	0.052	
7/15/2019 20:45	12.4	142.7	0.009	0.032	
7/15/2019 20:45					42.4332;-76.49804
7/15/2019 20:46			0.009	0.029	
7/15/2019 20:47			0.009	0.028	
7/15/2019 20:48			0.009	0.027	
7/15/2019 20:49			0.009	0.027	
7/15/2019 20:50	12.4	148.8	0.01	0.027	42.4333;-76.49741
7/15/2019 20:51			0.01	0.027	
7/15/2019 20:52			0.01	0.027	
7/15/2019 20:53			0.01	0.027	
7/15/2019 20:54			0.01	0.028	
7/15/2019 20:55	12.4	149.8	0.01	0.03	
7/15/2019 20:55					42.43341;-76.4972
7/15/2019 20:56			0.01	0.027	
7/15/2019 20:57			0.01	0.027	
7/15/2019 20:58			0.01	0.028	
7/15/2019 20:59			0.01	0.032	
7/15/2019 21:00	12.4	146.8	0.01	0.027	42.43329;-76.49725
7/15/2019 21:01			0.01	0.027	
7/15/2019 21:02			0.01	0.027	
7/15/2019 21:03			0.01	0.027	
7/15/2019 21:04			0.01	0.027	
7/15/2019 21:05	12.4	154.9	0.01	0.027	42.4333;-76.49727
7/15/2019 21:06			0.01	0.028	
7/15/2019 21:07			0.01	0.027	
7/15/2019 21:08			0.011	0.028	
7/15/2019 21:09			0.011	0.027	
7/15/2019 21:10	12.4	145.8	0.011	0.028	42.43329;-76.49725
7/15/2019 21:11			0.011	0.027	
7/15/2019 21:12			0.011	0.028	
7/15/2019 21:13			0.011	0.028	
7/15/2019 21:14			0.011	0.028	
7/15/2019 21:15	12.3	145.8	0.011	0.028	42.43325;-76.49725
7/15/2019 21:16			0.011	0.028	
7/15/2019 21:17			0.011	0.028	
7/15/2019 21:18			0.011	0.028	
7/15/2019 21:19			0.011	0.029	
7/15/2019 21:20	12.4	144.7	0.011	0.028	42.43334;-76.49725
7/15/2019 21:21			0.011	0.028	
7/15/2019 21:22			0.011	0.028	
7/15/2019 21:23			0.011	0.028	
7/15/2019 21:24			0.011	0.028	
7/15/2019 21:25	12.4	93.1	0.012	0.028	
7/15/2019 21:25					42.43329;-76.49733
7/15/2019 21:26			0.012	0.028	
7/15/2019 21:27			0.012	0.029	
7/15/2019 21:28			0.012	0.028	
7/15/2019 21:29			0.012	0.028	
7/15/2019 21:30	12.4	105.3	0.012	0.029	42.43333;-76.49728
7/15/2019 21:31			0.012	0.028	
7/15/2019 21:32			0.012	0.059	
7/15/2019 21:33			0.012	0.08	
7/15/2019 21:34			0.012	0.043	
7/15/2019 21:35	12.4	95.1	0.012	0.029	
7/15/2019 21:35					42.43319;-76.49741
7/15/2019 21:36			0.012	0.029	
7/15/2019 21:37			0.012	0.029	
7/15/2019 21:38			0.013	0.029	
7/15/2019 21:39			0.013	0.029	
7/15/2019 21:40	12.4	92.1	0.013	0.029	42.43311;-76.49744
7/15/2019 21:41			0.013	0.029	
7/15/2019 21:42			0.013	0.029	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/16/2019 11:24	12.5	149.8			
7/16/2019 11:24					42.433188;-76.49758829999999
7/16/2019 11:25	12.6	131.6			
7/16/2019 11:27			0	0.068	
7/16/2019 11:28			0	0.074	
7/16/2019 11:29			0	0.154	
7/16/2019 11:30	12.5	95.1	0	0.048	
7/16/2019 11:30					42.4333;-76.49725
7/16/2019 11:31			0	0.041	
7/16/2019 11:32			0	0.04	
7/16/2019 11:33			0	0.039	
7/16/2019 11:34			0	0.041	
7/16/2019 11:35	12.5	91.1	0	0.038	42.43331;-76.49722
7/16/2019 11:36			0	0.037	
7/16/2019 11:37			0	0.036	
7/16/2019 11:38			0	0.036	
7/16/2019 11:39			0	0.036	
7/16/2019 11:40	12.5	103.2	0	0.037	
7/16/2019 11:40					42.43332;-76.49718
7/16/2019 11:41			0	0.037	
7/16/2019 11:42			0.002	0.037	
7/16/2019 11:43			0.002	0.039	
7/16/2019 11:44			0.002	0.039	
7/16/2019 11:45	12.5	101.2	0.002	0.037	
7/16/2019 11:45					42.43332;-76.49731
7/16/2019 11:46			0.002	0.037	
7/16/2019 11:47			0.002	0.039	
7/16/2019 11:48			0.002	0.039	
7/16/2019 11:49			0.002	0.053	
7/16/2019 11:50	12.5	91.1	0.002	0.047	42.43329;-76.49735
7/16/2019 11:51			0.002	0.059	
7/16/2019 11:52			0.003	0.042	
7/16/2019 11:53			0.003	0.039	
7/16/2019 11:54			0.003	0.038	
7/16/2019 11:55	12.5	90.1	0.003	0.038	
7/16/2019 11:55					42.43325;-76.49735
7/16/2019 11:56			0.003	0.038	
7/16/2019 11:57			0.003	0.037	
7/16/2019 11:58			0.003	0.038	
7/16/2019 11:59			0.003	0.038	
7/16/2019 12:00	12.5	97.2	0.003	0.037	
7/16/2019 12:00					42.43327;-76.49735
7/16/2019 12:01			0.003	0.038	
7/16/2019 12:02			0.003	0.038	
7/16/2019 12:03			0.003	0.038	
7/16/2019 12:04			0.003	0.038	
7/16/2019 12:05	12.5	116.4	0.004	0.072	
7/16/2019 12:05					42.43324;-76.49728
7/16/2019 12:06			0.004	0.168	
7/16/2019 12:07			0.004	0.042	
7/16/2019 12:08			0.004	0.039	
7/16/2019 12:09			0.004	0.038	
7/16/2019 12:10	12.5	92.1	0.004	0.04	42.43324;-76.49725
7/16/2019 12:11			0.004	0.038	
7/16/2019 12:12			0.004	0.038	
7/16/2019 12:13			0.005	0.038	
7/16/2019 12:14			0.005	0.038	
7/16/2019 12:15	12.5	90.1	0.005	0.038	42.43318;-76.49727
7/16/2019 12:16			0.005	0.038	
7/16/2019 12:17			0.005	0.038	
7/16/2019 12:18			0.005	0.038	
7/16/2019 12:19			0.005	0.038	
7/16/2019 12:20	12.5	101.2	0.005	0.038	42.43318;-76.49728
7/16/2019 12:21			0.005	0.038	
7/16/2019 12:22			0.006	0.211	
7/16/2019 12:23			0.006	0.179	
7/16/2019 12:24			0.006	0.039	
7/16/2019 12:25	12.5	90.1	0.006	0.039	42.43317;-76.49731
7/16/2019 12:26			0.006	0.038	
7/16/2019 12:27			0.006	0.039	
7/16/2019 12:28			0.006	0.039	
7/16/2019 12:29			0.006	0.038	
7/16/2019 12:30	12.5	88.1	0.007	0.039	42.43321;-76.49725
7/16/2019 12:31			0.007	0.039	
7/16/2019 12:32			0.007	0.039	
7/16/2019 12:33			0.007	0.039	
7/16/2019 12:34			0.007	0.04	
7/16/2019 12:35	12.5	99.2	0.007	0.04	
7/16/2019 12:35					42.43318;-76.4972
7/16/2019 12:36			0.007	0.04	
7/16/2019 12:37			0.007	0.039	
7/16/2019 12:38			0.007	0.04	
7/16/2019 12:39			0.007	0.04	
7/16/2019 12:40	12.5	94.1	0.007	0.04	
7/16/2019 12:40					42.4332;-76.4972
7/16/2019 12:41			0.008	0.176	
7/16/2019 12:42			0.008	0.044	
7/16/2019 12:43			0.008	0.044	
7/16/2019 12:44			0.008	0.041	
7/16/2019 12:45	12.5	93.1	0.008	0.046	
7/16/2019 12:45					42.43319;-76.49722
7/16/2019 12:46			0.008	0.044	
7/16/2019 12:47			0.008	0.042	
7/16/2019 12:48			0.008	0.041	
7/16/2019 12:49			0.008	0.04	
7/16/2019 12:50	12.5	100.2	0.009	0.041	
7/16/2019 12:50					42.43324;-76.49718
7/16/2019 12:51			0.009	0.04	
7/16/2019 12:52			0.009	0.041	
7/16/2019 12:53			0.009	0.04	
7/16/2019 12:54			0.009	0.041	
7/16/2019 12:55	12.5	103.2	0.009	0.041	42.4332;-76.49718
7/16/2019 12:56			0.009	0.042	
7/16/2019 12:57			0.009	0.042	
7/16/2019 12:58			0.009	0.042	
7/16/2019 12:59			0.009	0.044	
7/16/2019 13:00	12.5	90.1	0.009	0.042	
7/16/2019 13:00					42.43319;-76.49722
7/16/2019 13:01			0.009	0.042	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/16/2019 13:02			0.01	0.042	
7/16/2019 13:03			0.01	0.041	
7/16/2019 13:04			0.01	0.041	
7/16/2019 13:05	12.5	91.1	0.01	0.041	42.43314;-76.49728
7/16/2019 13:06			0.01	0.074	
7/16/2019 13:07			0.01	0.067	
7/16/2019 13:08			0.01	0.042	
7/16/2019 13:09			0.01	0.041	
7/16/2019 13:10	12.5	101.2	0.01	0.042	42.4331;-76.49731
7/16/2019 13:11			0.01	0.043	
7/16/2019 13:12			0.011	0.044	
7/16/2019 13:13			0.011	0.043	
7/16/2019 13:14			0.011	0.043	
7/16/2019 13:15	12.5	98.2	0.011	0.044	
7/16/2019 13:15					42.43314;-76.49728
7/16/2019 13:16			0.011	0.042	
7/16/2019 13:17			0.011	0.041	
7/16/2019 13:18			0.011	0.042	
7/16/2019 13:19			0.011	0.048	
7/16/2019 13:20	12.5	91.1	0.011	0.042	
7/16/2019 13:20					42.43311;-76.49731
7/16/2019 13:21			0.011	0.041	
7/16/2019 13:22			0.011	0.042	
7/16/2019 13:23			0.012	0.042	
7/16/2019 13:24			0.012	0.129	
7/16/2019 13:25	12.5	108.3	0.012	0.071	
7/16/2019 13:25					42.43319;-76.49709
7/16/2019 13:26			0.012	0.045	
7/16/2019 13:27			0.012	0.044	
7/16/2019 13:28			0.012	0.042	
7/16/2019 13:29			0.012	0.043	
7/16/2019 13:30	12.5	103.2	0.012	0.042	42.43318;-76.49728
7/16/2019 13:31			0.013	0.042	
7/16/2019 13:32			0.013	0.044	
7/16/2019 13:33			0.013	0.119	
7/16/2019 13:34			0.013	0.047	
7/16/2019 13:35	12.5	90.1	0.013	0.043	42.43321;-76.49722
7/16/2019 13:36			0.013	0.041	
7/16/2019 13:37			0.013	0.041	
7/16/2019 13:38			0.013	0.04	
7/16/2019 13:39			0.013	0.041	
7/16/2019 13:40	12.5	92.1	0.013	0.041	42.43324;-76.49718
7/16/2019 13:41			0.014	0.041	
7/16/2019 13:42			0.014	0.041	
7/16/2019 13:43			0.014	0.042	
7/16/2019 13:44			0.014	0.041	
7/16/2019 13:45	12.5	93.1	0.014	0.041	
7/16/2019 13:45					42.43322;-76.4972
7/16/2019 13:46			0.014	0.042	
7/16/2019 13:47			0.014	0.042	
7/16/2019 13:48			0.014	0.042	
7/16/2019 13:49			0.014	0.042	
7/16/2019 13:50	12.5	92.1	0.014	0.05	
7/16/2019 13:50					42.43329;-76.49707
7/16/2019 13:51			0.014	0.048	
7/16/2019 13:52			0.015	0.062	
7/16/2019 13:53			0.015	0.045	
7/16/2019 13:54			0.015	0.042	
7/16/2019 13:55	12.5	95.1	0.015	0.046	
7/16/2019 13:55					42.43328;-76.49714
7/16/2019 13:56			0.015	0.054	
7/16/2019 13:57			0.015	0.052	
7/16/2019 13:58			0.015	0.043	
7/16/2019 13:59			0.015	0.043	
7/16/2019 14:00	12.5	93.1	0.015	0.043	42.43332;-76.49727
7/16/2019 14:01			0.015	0.043	
7/16/2019 14:02			0.016	0.042	
7/16/2019 14:03			0.016	0.043	
7/16/2019 14:04			0.016	0.046	
7/16/2019 14:05	12.5	92.1	0.016	0.043	42.43321;-76.49725
7/16/2019 14:06			0.016	0.043	
7/16/2019 14:07			0.016	0.043	
7/16/2019 14:08			0.016	0.043	
7/16/2019 14:09			0.016	0.044	
7/16/2019 14:10	12.4	105.3	0.016	0.043	
7/16/2019 14:10					42.43324;-76.49727
7/16/2019 14:11			0.016	0.043	
7/16/2019 14:12			0.016	0.044	
7/16/2019 14:13			0.017	0.044	
7/16/2019 14:14			0.017	0.044	
7/16/2019 14:15	12.4	92.1	0.017	0.043	42.43332;-76.49728
7/16/2019 14:16			0.017	0.043	
7/16/2019 14:17			0.017	0.043	
7/16/2019 14:18			0.017	0.044	
7/16/2019 14:19			0.017	0.043	
7/16/2019 14:20	12.4	93.1	0.017	0.044	42.43331;-76.49728
7/16/2019 14:21			0.017	0.044	
7/16/2019 14:22			0.017	0.044	
7/16/2019 14:23			0.017	0.045	
7/16/2019 14:24			0.018	0.046	
7/16/2019 14:25	12.5	91.1	0.018	0.047	
7/16/2019 14:25					42.43324;-76.49727
7/16/2019 14:26			0.018	0.073	
7/16/2019 14:27			0.018	0.044	
7/16/2019 14:28			0.018	0.045	
7/16/2019 14:29			0.018	0.045	
7/16/2019 14:30	12.4	94.1	0.018	0.048	42.43336;-76.49738
7/16/2019 14:31			0.018	0.051	
7/16/2019 14:32			0.018	0.051	
7/16/2019 14:33			0.018	0.047	
7/16/2019 14:34			0.019	0.045	
7/16/2019 14:35	12.4	92.1	0.019	0.045	42.43336;-76.49738
7/16/2019 14:36			0.019	0.045	
7/16/2019 14:37			0.019	0.052	
7/16/2019 14:38			0.019	0.047	
7/16/2019 14:39			0.019	0.045	
7/16/2019 14:40	12.4	96.2	0.019	0.047	
7/16/2019 14:40					42.43314;-76.4972
7/16/2019 14:41			0.019	0.045	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/16/2019 14:42			0.019	0.045	
7/16/2019 14:43			0.019	0.046	
7/16/2019 14:44			0.02	0.045	
7/16/2019 14:45	12.4	91.1	0.02	0.047	42.43337;-76.49733
7/16/2019 14:46			0.02	0.046	
7/16/2019 14:47			0.02	0.047	
7/16/2019 14:48			0.02	0.048	
7/16/2019 14:49			0.02	0.048	
7/16/2019 14:50	12.4	94.1	0.02	0.045	42.43332;-76.49735
7/16/2019 14:51			0.02	0.046	
7/16/2019 14:52			0.02	0.046	
7/16/2019 14:53			0.02	0.046	
7/16/2019 14:54			0.02	0.046	
7/16/2019 14:55	12.4	90.1	0.021	0.049	42.43334;-76.49735
7/16/2019 14:56			0.021	0.047	
7/16/2019 14:57			0.021	0.08	
7/16/2019 14:58			0.021	0.048	
7/16/2019 14:59			0.021	0.047	
7/16/2019 15:00	12.4	94.1	0.021	0.046	
7/16/2019 15:00					42.43321;-76.49728
7/16/2019 15:01			0.021	0.045	
7/16/2019 15:02			0.021	0.046	
7/16/2019 15:03			0.021	0.045	
7/16/2019 15:04			0.022	0.046	
7/16/2019 15:05	12.4	122.5	0.022	0.046	
7/16/2019 15:05					42.4333;-76.49735
7/16/2019 15:06			0.022	0.046	
7/16/2019 15:07			0.022	0.045	
7/16/2019 15:08			0.022	0.046	
7/16/2019 15:09			0.022	0.046	
7/16/2019 15:10	12.4	92.1	0.022	0.047	
7/16/2019 15:10					42.43356;-76.49748
7/16/2019 15:11			0.022	0.082	
7/16/2019 15:12			0.022	0.046	
7/16/2019 15:13			0.022	0.047	
7/16/2019 15:14			0.023	0.048	
7/16/2019 15:15	12.4	95.1	0.023	0.048	42.43324;-76.49731
7/16/2019 15:16			0.023	0.047	
7/16/2019 15:17			0.023	0.047	
7/16/2019 15:18			0.023	0.047	
7/16/2019 15:19			0.023	0.046	
7/16/2019 15:20	12.4	107.3	0.023	0.047	
7/16/2019 15:20					42.43322;-76.49727
7/16/2019 15:21			0.023	0.046	
7/16/2019 15:22			0.023	0.046	
7/16/2019 15:23			0.023	0.047	
7/16/2019 15:24			0.024	0.047	
7/16/2019 15:25	12.4	90.1	0.024	0.047	
7/16/2019 15:25					42.43308;-76.49725
7/16/2019 15:26			0.024	0.048	
7/16/2019 15:27			0.024	0.048	
7/16/2019 15:28			0.024	0.047	
7/16/2019 15:29			0.024	0.046	
7/16/2019 15:30	12.4	93.1	0.024	0.048	42.4331;-76.49727
7/16/2019 15:31			0.024	0.047	
7/16/2019 15:32			0.024	0.047	
7/16/2019 15:33			0.024	0.046	
7/16/2019 15:34			0.025	0.047	
7/16/2019 15:35	12.4	115.4	0.025	0.074	42.43311;-76.49727
7/16/2019 15:36			0.025	0.048	
7/16/2019 15:37			0.025	0.052	
7/16/2019 15:38			0.025	0.048	
7/16/2019 15:39			0.025	0.048	
7/16/2019 15:40	12.4	92.1	0.025	0.048	
7/16/2019 15:40					42.43308;-76.49727
7/16/2019 15:41			0.025	0.046	
7/16/2019 15:42			0.025	0.046	
7/16/2019 15:43			0.025	0.048	
7/16/2019 15:44			0.026	0.052	
7/16/2019 15:45	12.4	91.1	0.026	0.048	42.43328;-76.49728
7/16/2019 15:46			0.026	0.047	
7/16/2019 15:47			0.026	0.046	
7/16/2019 15:48			0.026	0.046	
7/16/2019 15:49			0.026	0.047	
7/16/2019 15:50	12.4	92.1	0.026	0.047	42.43324;-76.49728
7/16/2019 15:51			0.026	0.047	
7/16/2019 15:52			0.026	0.047	
7/16/2019 15:53			0.026	0.047	
7/16/2019 15:54			0.027	0.047	
7/16/2019 15:55	12.4	92.1	0.027	0.047	42.43328;-76.49728
7/16/2019 15:56			0.027	0.048	
7/16/2019 15:57			0.027	0.047	
7/16/2019 15:58			0.027	0.068	
7/16/2019 15:59			0.027	0.049	
7/16/2019 16:00	12.4	92.1	0.027	0.051	42.43328;-76.49727
7/16/2019 16:01			0.027	0.047	
7/16/2019 16:02			0.027	0.046	
7/16/2019 16:03			0.027	0.047	
7/16/2019 16:04			0.028	0.047	
7/16/2019 16:05	12.4	96.2	0.028	0.046	
7/16/2019 16:05					42.43329;-76.49727
7/16/2019 16:06			0.028	0.274	
7/16/2019 16:07			0.028	0.047	
7/16/2019 16:08			0.028	0.047	
7/16/2019 16:09			0.029	0.047	
7/16/2019 16:10	12.4	103.2	0.029	0.047	42.43328;-76.49728
7/16/2019 16:11			0.029	0.047	
7/16/2019 16:12			0.029	0.084	
7/16/2019 16:13			0.029	0.064	
7/16/2019 16:14			0.029	0.063	
7/16/2019 16:15	12.4	91.1	0.029	0.049	
7/16/2019 16:15					42.43327;-76.49725
7/16/2019 16:16			0.029	0.05	
7/16/2019 16:17			0.03	0.246	
7/16/2019 16:18			0.03	0.08	
7/16/2019 16:19			0.03	0.065	
7/16/2019 16:20	12.4	91.1	0.03	0.048	
7/16/2019 16:20					42.43329;-76.4972
7/16/2019 16:21			0.03	0.048	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/16/2019 16:22			0.031	0.047	
7/16/2019 16:23			0.031	0.048	
7/16/2019 16:24			0.031	0.047	
7/16/2019 16:25	12.4	92.1	0.031	0.047	42.43327;-76.4972
7/16/2019 16:26			0.031	0.047	
7/16/2019 16:27			0.031	0.047	
7/16/2019 16:28			0.031	0.047	
7/16/2019 16:29			0.031	0.047	
7/16/2019 16:30	12.4	98.2	0.031	0.047	
7/16/2019 16:30					42.43329;-76.4972
7/16/2019 16:31			0.031	0.047	
7/16/2019 16:32			0.031	0.048	
7/16/2019 16:33			0.032	0.059	
7/16/2019 16:34			0.032	0.063	
7/16/2019 16:35	12.4	97.2	0.032	0.056	42.43327;-76.49722
7/16/2019 16:36			0.032	0.048	
7/16/2019 16:37			0.032	0.05	
7/16/2019 16:38			0.032	0.051	
7/16/2019 16:39			0.032	0.072	
7/16/2019 16:40	12.4	91.1	0.033	0.086	42.43328;-76.4972
7/16/2019 16:41			0.033	0.09	
7/16/2019 16:42			0.033	0.059	
7/16/2019 16:43			0.033	0.058	
7/16/2019 16:44			0.033	0.079	
7/16/2019 16:45	12.4	104.3	0.033	0.064	
7/16/2019 16:45					42.43327;-76.49718
7/16/2019 16:46			0.033	0.054	
7/16/2019 16:47			0.034	0.099	
7/16/2019 16:48			0.034	0.071	
7/16/2019 16:49			0.034	0.079	
7/16/2019 16:50	12.3	140.7	0.034	0.053	
7/16/2019 16:50					42.43327;-76.4972
7/16/2019 16:51			0.034	0.053	
7/16/2019 16:52			0.034	0.055	
7/16/2019 16:53			0.034	0.055	
7/16/2019 16:54			0.034	0.056	
7/16/2019 16:55	12.4	110.3	0.035	0.049	42.43327;-76.49722
7/16/2019 16:56			0.035	0.05	
7/16/2019 16:57			0.035	0.05	
7/16/2019 16:58			0.035	0.051	
7/16/2019 16:59			0.035	0.052	
7/16/2019 17:00	12.4	92.1	0.035	0.052	42.43329;-76.49722
7/16/2019 17:01			0.035	0.052	
7/16/2019 17:02			0.035	0.05	
7/16/2019 17:03			0.035	0.051	
7/16/2019 17:04			0.035	0.049	
7/16/2019 17:05	12.4	93.1	0.036	0.049	42.43332;-76.49722
7/16/2019 17:06			0.036	0.052	
7/16/2019 17:07			0.036	0.053	
7/16/2019 17:08			0.036	0.051	
7/16/2019 17:09			0.036	0.05	
7/16/2019 17:10	12.3	92.1	0.036	0.05	
7/16/2019 17:10					42.43332;-76.4972
7/16/2019 17:11			0.036	0.065	
7/16/2019 17:12			0.036	0.052	
7/16/2019 17:13			0.036	0.051	
7/16/2019 17:14			0.037	0.05	
7/16/2019 17:15	12.3	93.1	0.037	0.05	42.43332;-76.49727
7/16/2019 17:16			0.037	0.05	
7/16/2019 17:17			0.037	0.05	
7/16/2019 17:18			0.037	0.05	
7/16/2019 17:19			0.037	0.05	
7/16/2019 17:20	12.3	95.1	0.037	0.05	42.43331;-76.49722
7/16/2019 17:21			0.037	0.051	
7/16/2019 17:22			0.037	0.05	
7/16/2019 17:23			0.038	0.051	
7/16/2019 17:24			0.038	0.051	
7/16/2019 17:25	12.3	112.4	0.038	0.05	42.43331;-76.4972
7/16/2019 17:26			0.038	0.05	
7/16/2019 17:27			0.038	0.051	
7/16/2019 17:28			0.038	0.05	
7/16/2019 17:29			0.038	0.05	
7/16/2019 17:30	12.3	94.1	0.038	0.05	42.4332;-76.49722
7/16/2019 17:31			0.038	0.05	
7/16/2019 17:32			0.038	0.051	
7/16/2019 17:33			0.039	0.051	
7/16/2019 17:34			0.039	0.051	
7/16/2019 17:35	12.3	94.1	0.039	0.053	42.43322;-76.49718
7/16/2019 17:36			0.039	0.052	
7/16/2019 17:37			0.039	0.055	
7/16/2019 17:38			0.039	0.078	
7/16/2019 17:39			0.039	0.094	
7/16/2019 17:40	12.3	101.2	0.04	0.079	
7/16/2019 17:40					42.43328;-76.49718
7/16/2019 17:41			0.04	0.054	
7/16/2019 17:42			0.04	0.051	
7/16/2019 17:43			0.04	0.052	
7/16/2019 17:44			0.04	0.051	
7/16/2019 17:45	12.3	97.2	0.04	0.075	42.43324;-76.4972
7/16/2019 17:46			0.04	0.101	
7/16/2019 17:47			0.04	0.057	
7/16/2019 17:48			0.041	0.057	
7/16/2019 17:49			0.041	0.051	
7/16/2019 17:50	12.3	93.1	0.041	0.054	42.43327;-76.49727
7/16/2019 17:51			0.041	0.059	
7/16/2019 17:52			0.041	0.066	
7/16/2019 17:53			0.041	0.163	
7/16/2019 17:54			0.041	0.054	
7/16/2019 17:55	12.3	94.1	0.042	0.053	42.43328;-76.49725
7/16/2019 17:56			0.042	0.053	
7/16/2019 17:57			0.042	0.052	
7/16/2019 17:58			0.042	0.052	
7/16/2019 17:59			0.042	0.064	
7/16/2019 18:00	12.3	93.1	0.042	0.052	
7/16/2019 18:00					42.43329;-76.49728
7/16/2019 18:01			0.042	0.052	
7/16/2019 18:02			0.042	0.052	
7/16/2019 18:03			0.043	0.07	
7/16/2019 18:04			0.043	0.055	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/16/2019 18:05	12.3	93.1	0.043	0.051	42.43329;-76.49725
7/16/2019 18:06			0.043	0.051	
7/16/2019 18:07			0.043	0.051	
7/16/2019 18:08			0.043	0.052	
7/16/2019 18:09			0.043	0.051	
7/16/2019 18:10	12.3	105.3	0.043	0.052	42.4333;-76.49725
7/16/2019 18:11			0.043	0.052	
7/16/2019 18:12			0.044	0.052	
7/16/2019 18:13			0.044	0.053	
7/16/2019 18:14			0.044	0.052	
7/16/2019 18:15	12.3	100.2	0.044	0.088	42.43309;-76.49718
7/16/2019 18:16			0.044	0.063	
7/16/2019 18:17			0.044	0.052	
7/16/2019 18:18			0.044	0.056	
7/16/2019 18:19			0.044	0.054	
7/16/2019 18:20	12.3	119.4	0.044	0.056	
7/16/2019 18:20					42.43316;-76.49722
7/16/2019 18:21			0.045	0.054	
7/16/2019 18:22			0.045	0.053	
7/16/2019 18:23			0.045	0.056	
7/16/2019 18:24			0.045	0.054	
7/16/2019 18:25	12.3	96.2	0.045	0.053	
7/16/2019 18:25					42.43321;-76.49728
7/16/2019 18:26			0.045	0.052	
7/16/2019 18:27			0.045	0.053	
7/16/2019 18:28			0.045	0.056	
7/16/2019 18:29			0.046	0.054	
7/16/2019 18:30	12.3	99.2	0.046	0.053	
7/16/2019 18:30					42.43332;-76.49728
7/16/2019 18:31			0.046	0.053	
7/16/2019 18:32			0.046	0.053	
7/16/2019 18:33			0.046	0.053	
7/16/2019 18:34			0.046	0.053	
7/16/2019 18:35	12.3	105.3	0.046	0.055	
7/16/2019 18:35					42.43324;-76.49733
7/16/2019 18:36			0.046	0.054	
7/16/2019 18:37			0.046	0.057	
7/16/2019 18:38			0.047	0.054	
7/16/2019 18:39			0.047	0.054	
7/16/2019 18:40	12.3	93.1	0.047	0.096	42.43321;-76.49728
7/16/2019 18:41			0.047	0.1	
7/16/2019 18:42			0.047	0.053	
7/16/2019 18:43			0.047	0.053	
7/16/2019 18:44			0.047	0.053	
7/16/2019 18:45	12.3	118.4	0.047	0.053	
7/16/2019 18:45					42.43324;-76.49727
7/16/2019 18:46			0.048	0.053	
7/16/2019 18:47			0.048	0.053	
7/16/2019 18:48			0.048	0.052	
7/16/2019 18:49			0.048	0.054	
7/16/2019 18:50	12.3	93.1	0.048	0.055	
7/16/2019 18:50					42.43307;-76.49728
7/16/2019 18:51			0.048	0.054	
7/16/2019 18:52			0.048	0.059	
7/16/2019 18:53			0.049	0.106	
7/16/2019 18:54			0.049	0.131	
7/16/2019 18:55	12.3	117.4	0.049	0.099	42.43324;-76.49728
7/16/2019 18:56			0.049	0.091	
7/16/2019 18:57			0.049	0.053	
7/16/2019 18:58			0.049	0.051	
7/16/2019 18:59			0.049	0.052	
7/16/2019 19:00	12.3	92.1	0.05	0.048	42.43329;-76.49731
7/16/2019 19:01			0.05	0.06	
7/16/2019 19:02			0.05	0.124	
7/16/2019 19:03			0.05	0.234	
7/16/2019 19:04			0.051	0.046	
7/16/2019 19:05	12.3	92.1	0.051	0.087	42.43315;-76.49725
7/16/2019 19:06			0.051	0.05	
7/16/2019 19:07			0.051	0.067	
7/16/2019 19:08			0.051	0.052	
7/16/2019 19:09			0.051	0.06	
7/16/2019 19:10	12.3	94.1	0.051	0.051	42.43325;-76.49727
7/16/2019 19:11			0.052	0.091	
7/16/2019 19:12			0.052	0.059	
7/16/2019 19:13			0.052	0.048	
7/16/2019 19:14			0.052	0.048	
7/16/2019 19:15	12.2	95.1	0.052	0.044	42.43324;-76.49725
7/16/2019 19:16			0.052	0.043	
7/16/2019 19:17			0.052	0.043	
7/16/2019 19:18			0.052	0.042	
7/16/2019 19:19			0.052	0.042	
7/16/2019 19:20	12.3	93.1	0.052	0.043	42.43327;-76.49733
7/16/2019 19:21			0.052	0.044	
7/16/2019 19:22			0.053	0.046	
7/16/2019 19:23			0.053	0.043	
7/16/2019 19:24			0.053	0.044	
7/16/2019 19:25	12.2	94.1	0.053	0.043	42.43327;-76.49733
7/16/2019 19:26			0.053	0.043	
7/16/2019 19:27			0.053	0.043	
7/16/2019 19:28			0.053	0.045	
7/16/2019 19:29			0.053	0.043	
7/16/2019 19:30	12.2	92.1	0.053	0.044	42.43321;-76.49725
7/16/2019 19:31			0.053	0.043	
7/16/2019 19:32			0.053	0.044	
7/16/2019 19:33			0.053	0.044	
7/16/2019 19:34			0.053	0.044	
7/16/2019 19:35	12.2	93.1	0.053	0.045	
7/16/2019 19:35					42.43324;-76.49725
7/16/2019 19:36			0.053	0.044	
7/16/2019 19:37			0.053	0.044	
7/16/2019 19:38			0.053	0.044	
7/16/2019 19:39			0.053	0.045	
7/16/2019 19:40	12.2	98.2	0.053	0.051	42.4333;-76.49725
7/16/2019 19:41			0.053	0.051	
7/16/2019 19:42			0.053	0.046	
7/16/2019 19:43			0.053	0.047	
7/16/2019 19:44			0.053	0.046	
7/16/2019 19:45	12.2	99.2	0.053	0.046	42.43329;-76.49725
7/16/2019 19:46			0.053	0.045	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/16/2019 19:47			0.053	0.049	
7/16/2019 19:48			0.053	0.048	
7/16/2019 19:49			0.053	0.045	
7/16/2019 19:50	12.2	94.1	0.053	0.045	42.43328;-76.49731
7/16/2019 19:51			0.053	0.046	
7/16/2019 19:52			0.053	0.046	
7/16/2019 19:53			0.053	0.131	
7/16/2019 19:54			0.053	0.131	
7/16/2019 19:55	12.2	95.1	0.053	0.06	
7/16/2019 19:55					42.43321;-76.49725
7/16/2019 19:56			0.053	0.051	
7/16/2019 19:57			0.053	0.366	
7/16/2019 19:58			0.053	0.054	
7/16/2019 19:59			0.053	0.053	
7/16/2019 20:00	12.2	120.5	0.053	0.092	
7/16/2019 20:00					42.43324;-76.49725
7/16/2019 20:01			0.053	0.301	
7/16/2019 20:02			0.053	0.063	
7/16/2019 20:03			0.053	0.056	
7/16/2019 20:04			0.053	0.05	
7/16/2019 20:05	12.2	97.2	0.053	0.054	
7/16/2019 20:05					42.43327;-76.49725
7/16/2019 20:06			0.053	0.053	
7/16/2019 20:07			0.053	0.055	
7/16/2019 20:08			0.053	0.05	
7/16/2019 20:09			0.053	0.056	
7/16/2019 20:10	12.2	95.1	0.053	0.055	42.43327;-76.49722
7/16/2019 20:11			0.053	0.067	
7/16/2019 20:12			0.053	0.062	
7/16/2019 20:13			0.053	0.082	
7/16/2019 20:14			0.053	0.067	
7/16/2019 20:15	12.2	93.1	0.053	0.059	
7/16/2019 20:15					42.43329;-76.49727
7/16/2019 20:16			0.053	0.058	
7/16/2019 20:17			0.053	0.055	
7/16/2019 20:18			0.053	0.057	
7/16/2019 20:19			0.053	0.061	
7/16/2019 20:20	12.2	108.3	0.053	0.064	
7/16/2019 20:20					42.4333;-76.49727
7/16/2019 20:21			0.053	0.071	
7/16/2019 20:22			0.053	0.059	
7/16/2019 20:23			0.053	0.054	
7/16/2019 20:24			0.053	0.058	
7/16/2019 20:25	12.2	103.2	0.053	0.065	
7/16/2019 20:25					42.43327;-76.49722
7/16/2019 20:26			0.053	0.062	
7/16/2019 20:27			0.053	0.08	
7/16/2019 20:28			0.053	0.098	
7/16/2019 20:29			0.053	0.074	
7/16/2019 20:30	12.2	92.1	0.053	0.23	
7/16/2019 20:30					42.4332;-76.49718
7/16/2019 20:31			0.053	0.059	
7/16/2019 20:32			0.053	0.052	
7/16/2019 20:33			0.053	0.055	
7/16/2019 20:34			0.053	0.055	
7/16/2019 20:35	12.2	93.1	0.053	0.075	42.43329;-76.49722
7/16/2019 20:36			0.053	0.055	
7/16/2019 20:37			0.053	0.054	
7/16/2019 20:38			0.053	0.054	
7/16/2019 20:39			0.053	0.054	
7/16/2019 20:40	12.2	95.1	0.053	0.067	
7/16/2019 20:40					42.4333;-76.49725
7/16/2019 20:41			0.053	0.063	
7/16/2019 20:42			0.053	0.052	
7/16/2019 20:43			0.053	0.057	
7/16/2019 20:44			0.053	0.056	
7/16/2019 20:45	12.2	102.2	0.053	0.053	
7/16/2019 20:45					42.43329;-76.49725
7/16/2019 20:46			0.053	0.05	
7/16/2019 20:47			0.053	0.056	
7/16/2019 20:48			0.053	0.083	
7/16/2019 20:49			0.053	0.064	
7/16/2019 20:50	12.2	91.1	0.053	0.051	
7/16/2019 20:50					42.43329;-76.49722
7/16/2019 20:51			0.053	0.051	
7/16/2019 20:52			0.053	0.052	
7/16/2019 20:53			0.053	0.05	
7/16/2019 20:54			0.053	0.05	
7/16/2019 20:55	12.2	93.1	0.053	0.05	42.43343;-76.49714
7/16/2019 20:56			0.053	0.083	
7/16/2019 20:57			0.053	0.052	
7/16/2019 20:58			0.053	0.051	
7/16/2019 20:59			0.053	0.049	
7/16/2019 21:00	12.2	93.1	0.053	0.048	42.43333;-76.49707
7/16/2019 21:01			0.053	0.048	
7/16/2019 21:02			0.053	0.048	
7/16/2019 21:03			0.053	0.049	
7/16/2019 21:04			0.053	0.048	
7/16/2019 21:05	12.2	103.2	0.053	0.048	42.43328;-76.49718
7/16/2019 21:06			0.053	0.048	
7/16/2019 21:07			0.053	0.05	
7/16/2019 21:08			0.053	0.05	
7/16/2019 21:09			0.053	0.056	
7/16/2019 21:10	12.2	97.2	0.053	0.054	42.43325;-76.49727
7/16/2019 21:11			0.053	0.063	
7/16/2019 21:12			0.053	0.051	
7/16/2019 21:13			0.053	0.051	
7/16/2019 21:14			0.053	0.051	
7/16/2019 21:15	12.1	94.1	0.053	0.059	42.43327;-76.49727
7/16/2019 21:16			0.053	0.051	
7/16/2019 21:17			0.053	0.051	
7/16/2019 21:18			0.053	0.051	
7/16/2019 21:19			0.053	0.056	
7/16/2019 21:20	12.2	120.5	0.053	0.053	42.4333;-76.49735
7/16/2019 21:21			0.053	0.055	
7/16/2019 21:22			0.053	0.054	
7/16/2019 21:23			0.053	0.05	
7/16/2019 21:24			0.053	0.049	
7/16/2019 21:25	12.1	107.3	0.053	0.05	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/16/2019 21:25					42.43324;-76.4974
7/16/2019 21:26			0.053	0.049	
7/16/2019 21:27			0.053	0.049	
7/16/2019 21:28			0.053	0.05	
7/16/2019 21:29			0.053	0.05	
7/16/2019 21:30	12.1	95.1	0.053	0.05	42.43318;-76.49731
7/16/2019 21:31			0.053	0.05	
7/16/2019 21:32			0.053	0.051	
7/16/2019 21:33			0.053	0.052	
7/16/2019 21:34			0.053	0.063	
7/16/2019 21:35	12.1	95.1	0.053	0.055	42.43343;-76.49686
7/16/2019 21:36			0.053	0.052	
7/16/2019 21:37			0.053	0.052	
7/16/2019 21:38			0.053	0.053	
7/16/2019 21:39			0.053	0.05	
7/16/2019 21:40	12.1	94.1	0.053	0.05	
7/16/2019 21:40					42.43312;-76.4972
7/16/2019 21:41			0.053	0.059	
7/16/2019 21:42			0.053	0.085	
7/16/2019 21:43			0.053	0.058	
7/16/2019 21:44			0.053	0.051	
7/16/2019 21:45	12.1	99.2	0.053	0.054	
7/16/2019 21:45					42.43324;-76.49718
7/16/2019 21:46			0.053	0.128	
7/16/2019 21:47			0.053	0.094	
7/17/2019 11:45	12.8	90.1			
7/17/2019 11:47			0	0.064	
7/17/2019 11:48			0	0.062	
7/17/2019 11:49			0	0.062	
7/17/2019 11:50	12.7	115.4	0	0.062	
7/17/2019 11:50					42.43263;-76.4983
7/17/2019 11:51			0	0.062	
7/17/2019 11:52			0	0.062	
7/17/2019 11:53			0	0.062	
7/17/2019 11:54			0	0.061	
7/17/2019 11:55	12.7	111.3	0	0.061	
7/17/2019 11:55					42.4325;-76.49831
7/17/2019 11:56			0	0.061	
7/17/2019 11:57			0	0.06	
7/17/2019 11:58			0	0.06	
7/17/2019 11:59			0	0.06	
7/17/2019 12:00	12.7	122.5	0	0.059	
7/17/2019 12:00					42.43258;-76.49825
7/17/2019 12:01			0	0.059	
7/17/2019 12:02			0.002	0.059	
7/17/2019 12:03			0.002	0.058	
7/17/2019 12:04			0.002	0.059	
7/17/2019 12:05	12.6	99.2	0.002	0.058	
7/17/2019 12:05					42.43262;-76.4983
7/17/2019 12:06			0.002	0.057	
7/17/2019 12:07			0.003	0.056	
7/17/2019 12:08			0.003	0.058	
7/17/2019 12:09			0.003	0.057	
7/17/2019 12:10	12.7	121.5	0.003	0.057	
7/17/2019 12:10					42.43253;-76.49819
7/17/2019 12:11			0.003	0.056	
7/17/2019 12:12			0.003	0.056	
7/17/2019 12:13			0.003	0.056	
7/17/2019 12:14			0.003	0.056	
7/17/2019 12:15	12.7	111.3	0.004	0.057	
7/17/2019 12:15					42.43253;-76.49821
7/17/2019 12:16			0.004	0.055	
7/17/2019 12:17			0.004	0.057	
7/17/2019 12:18			0.004	0.057	
7/17/2019 12:19			0.004	0.057	
7/17/2019 12:20	12.6	120.5	0.004	0.057	42.43253;-76.49821
7/17/2019 12:21			0.004	0.057	
7/17/2019 12:22			0.004	0.056	
7/17/2019 12:23			0.004	0.057	
7/17/2019 12:24			0.005	0.058	
7/17/2019 12:25	12.6	124.5	0.005	0.057	42.43246;-76.49817
7/17/2019 12:26			0.005	0.055	
7/17/2019 12:27			0.005	0.056	
7/17/2019 12:28			0.005	0.055	
7/17/2019 12:29			0.005	0.056	
7/17/2019 12:30	12.7	116.4	0.005	0.055	
7/17/2019 12:30					42.43248;-76.49821
7/17/2019 12:31			0.005	0.054	
7/17/2019 12:32			0.006	0.054	
7/17/2019 12:33			0.006	0.054	
7/17/2019 12:34			0.006	0.054	
7/17/2019 12:35	12.7	111.3	0.006	0.054	42.4325;-76.49825
7/17/2019 12:36			0.006	0.054	
7/17/2019 12:37			0.006	0.054	
7/17/2019 12:38			0.006	0.054	
7/17/2019 12:39			0.006	0.053	
7/17/2019 12:40	12.7	122.5	0.006	0.053	
7/17/2019 12:40					42.4325;-76.49825
7/17/2019 12:41			0.007	0.054	
7/17/2019 12:42			0.007	0.054	
7/17/2019 12:43			0.007	0.054	
7/17/2019 12:44			0.007	0.054	
7/17/2019 12:45	12.7	112.4	0.007	0.054	42.43248;-76.49825
7/17/2019 12:46			0.007	0.055	
7/17/2019 12:47			0.007	0.055	
7/17/2019 12:48			0.007	0.055	
7/17/2019 12:49			0.007	0.056	
7/17/2019 12:50	12.7	119.4	0.008	0.055	
7/17/2019 12:50					42.4325;-76.49825
7/17/2019 12:51			0.008	0.055	
7/17/2019 12:52			0.008	0.054	
7/17/2019 12:53			0.008	0.054	
7/17/2019 12:54			0.008	0.054	
7/17/2019 12:55	12.7	120.5	0.008	0.054	
7/17/2019 12:55					42.43247;-76.49825
7/17/2019 12:56			0.008	0.054	
7/17/2019 12:57			0.008	0.054	
7/17/2019 12:58			0.008	0.054	
7/17/2019 12:59			0.009	0.054	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/17/2019 13:00	12.7	121.5	0.009	0.054	42.43247;-76.49825
7/17/2019 13:01			0.009	0.054	
7/17/2019 13:02			0.009	0.054	
7/17/2019 13:03			0.009	0.054	
7/17/2019 13:04			0.009	0.055	
7/17/2019 13:05	12.7	111.3	0.009	0.055	42.43247;-76.49823
7/17/2019 13:06			0.009	0.055	
7/17/2019 13:07			0.009	0.055	
7/17/2019 13:08			0.01	0.055	
7/17/2019 13:09			0.01	0.056	
7/17/2019 13:10	12.7	118.4	0.01	0.056	42.43241;-76.49819
7/17/2019 13:11			0.01	0.056	
7/17/2019 13:12			0.01	0.057	
7/17/2019 13:13			0.01	0.057	
7/17/2019 13:14			0.01	0.058	
7/17/2019 13:15	12.7	119.4	0.01	0.058	
7/17/2019 13:15					42.43244;-76.49823
7/17/2019 13:16			0.011	0.058	
7/17/2019 13:17			0.011	0.057	
7/17/2019 13:18			0.011	0.057	
7/17/2019 13:19			0.011	0.058	
7/17/2019 13:20	12.7	117.4	0.011	0.058	
7/17/2019 13:20					42.43244;-76.49821
7/17/2019 13:21			0.011	0.058	
7/17/2019 13:22			0.011	0.059	
7/17/2019 13:23			0.011	0.059	
7/17/2019 13:24			0.011	0.058	
7/17/2019 13:25	12.7	110.3	0.012	0.059	
7/17/2019 13:25					42.43246;-76.49819
7/17/2019 13:26			0.012	0.058	
7/17/2019 13:27			0.012	0.058	
7/17/2019 13:28			0.012	0.058	
7/17/2019 13:29			0.012	0.059	
7/17/2019 13:30	12.7	111.3	0.012	0.058	42.43246;-76.49828
7/17/2019 13:31			0.012	0.058	
7/17/2019 13:32			0.012	0.058	
7/17/2019 13:33			0.013	0.058	
7/17/2019 13:34			0.013	0.058	
7/17/2019 13:35	12.6	111.3	0.013	0.058	
7/17/2019 13:35					42.43257;-76.49802
7/17/2019 13:36			0.013	0.065	
7/17/2019 13:37			0.013	0.056	
7/17/2019 13:38			0.013	0.055	
7/17/2019 13:39			0.013	0.055	
7/17/2019 13:40	12.5	112.4	0.013	0.055	
7/17/2019 13:40					42.43253;-76.49821
7/17/2019 13:41			0.014	0.055	
7/17/2019 13:42			0.014	0.055	
7/17/2019 13:43			0.014	0.055	
7/17/2019 13:44			0.014	0.055	
7/17/2019 13:45	12.5	108.3	0.014	0.055	42.43253;-76.49825
7/17/2019 13:46			0.014	0.055	
7/17/2019 13:47			0.014	0.055	
7/17/2019 13:48			0.014	0.055	
7/17/2019 13:49			0.014	0.055	
7/17/2019 13:50	12.5	116.4	0.015	0.055	
7/17/2019 13:50					42.43251;-76.49821
7/17/2019 13:51			0.015	0.055	
7/17/2019 13:52			0.015	0.055	
7/17/2019 13:53			0.015	0.055	
7/17/2019 13:54			0.015	0.055	
7/17/2019 13:55	12.5	119.4	0.015	0.056	
7/17/2019 13:55					42.43253;-76.49828
7/17/2019 13:56			0.015	0.054	
7/17/2019 13:57			0.015	0.054	
7/17/2019 13:58			0.015	0.055	
7/17/2019 13:59			0.016	0.054	
7/17/2019 14:00	12.5	95.1	0.016	0.054	
7/17/2019 14:00					42.43256;-76.49825
7/17/2019 14:01			0.016	0.055	
7/17/2019 14:02			0.016	0.054	
7/17/2019 14:03			0.016	0.054	
7/17/2019 14:04			0.016	0.054	
7/17/2019 14:05	12.5	117.4	0.016	0.053	42.43253;-76.49823
7/17/2019 14:06			0.016	0.054	
7/17/2019 14:07			0.016	0.053	
7/17/2019 14:08			0.017	0.052	
7/17/2019 14:09			0.017	0.052	
7/17/2019 14:10	12.4	122.5	0.017	0.052	42.43253;-76.49823
7/17/2019 14:11			0.017	0.052	
7/17/2019 14:12			0.017	0.05	
7/17/2019 14:13			0.017	0.05	
7/17/2019 14:14			0.017	0.05	
7/17/2019 14:15	12.4	103.2	0.017	0.05	42.43256;-76.49825
7/17/2019 14:16			0.017	0.051	
7/17/2019 14:17			0.018	0.05	
7/17/2019 14:18			0.018	0.05	
7/17/2019 14:19			0.018	0.05	
7/17/2019 14:20	12.4	113.4	0.018	0.05	
7/17/2019 14:20					42.43253;-76.49819
7/17/2019 14:21			0.018	0.05	
7/17/2019 14:22			0.018	0.049	
7/17/2019 14:23			0.018	0.049	
7/17/2019 14:24			0.018	0.049	
7/17/2019 14:25	12.4	120.5	0.018	0.05	42.43258;-76.49821
7/17/2019 14:26			0.018	0.048	
7/17/2019 14:27			0.019	0.048	
7/17/2019 14:28			0.019	0.048	
7/17/2019 14:29			0.019	0.048	
7/17/2019 14:30	12.5	129.6	0.019	0.047	42.43257;-76.49821
7/17/2019 14:31			0.019	0.047	
7/17/2019 14:32			0.019	0.047	
7/17/2019 14:33			0.019	0.047	
7/17/2019 14:34			0.019	0.047	
7/17/2019 14:35	12.5	110.3	0.019	0.047	42.43258;-76.49823
7/17/2019 14:36			0.019	0.047	
7/17/2019 14:37			0.02	0.046	
7/17/2019 14:38			0.02	0.046	
7/17/2019 14:39			0.02	0.046	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/17/2019 14:40	12.4	121.5	0.02	0.046	
7/17/2019 14:40					42.43257;-76.49821
7/17/2019 14:41			0.02	0.046	
7/17/2019 14:42			0.02	0.046	
7/17/2019 14:43			0.02	0.046	
7/17/2019 14:44			0.02	0.046	
7/17/2019 14:45	12.5	116.4	0.02	0.045	42.43261;-76.49823
7/17/2019 14:46			0.02	0.046	
7/17/2019 14:47			0.02	0.045	
7/17/2019 14:48			0.021	0.045	
7/17/2019 14:49			0.021	0.044	
7/17/2019 14:50	12.5	113.4	0.021	0.045	42.43263;-76.49828
7/17/2019 14:51			0.021	0.045	
7/17/2019 14:52			0.021	0.044	
7/17/2019 14:53			0.021	0.044	
7/17/2019 14:54			0.021	0.044	
7/17/2019 14:55	12.5	116.4	0.021	0.044	42.43262;-76.4983
7/17/2019 14:56			0.021	0.045	
7/17/2019 14:57			0.021	0.044	
7/17/2019 14:58			0.022	0.044	
7/17/2019 14:59			0.022	0.044	
7/17/2019 15:00	12.5	112.4	0.022	0.044	
7/17/2019 15:00					42.43259;-76.49821
7/17/2019 15:01			0.022	0.044	
7/17/2019 15:02			0.022	0.044	
7/17/2019 15:03			0.022	0.044	
7/17/2019 15:04			0.022	0.044	
7/17/2019 15:05	12.5	112.4	0.022	0.044	
7/17/2019 15:05					42.43253;-76.49812
7/17/2019 15:06			0.022	0.043	
7/17/2019 15:07			0.022	0.043	
7/17/2019 15:08			0.022	0.043	
7/17/2019 15:09			0.023	0.043	
7/17/2019 15:10	12.5	115.4	0.023	0.043	
7/17/2019 15:10					42.43251;-76.49819
7/17/2019 15:11			0.023	0.043	
7/17/2019 15:12			0.023	0.043	
7/17/2019 15:13			0.023	0.043	
7/17/2019 15:14			0.023	0.043	
7/17/2019 15:15	12.4	121.5	0.023	0.043	
7/17/2019 15:15					42.43256;-76.4983
7/17/2019 15:16			0.023	0.043	
7/17/2019 15:17			0.023	0.043	
7/17/2019 15:18			0.023	0.043	
7/17/2019 15:19			0.023	0.043	
7/17/2019 15:20	12.5	142.7	0.024	0.043	42.43221;-76.49817
7/17/2019 15:21			0.024	0.043	
7/17/2019 15:22			0.024	0.043	
7/17/2019 15:23			0.024	0.043	
7/17/2019 15:24			0.024	0.043	
7/17/2019 15:25	12.4	126.5	0.024	0.043	42.43266;-76.49825
7/17/2019 15:26			0.024	0.043	
7/17/2019 15:27			0.024	0.043	
7/17/2019 15:28			0.024	0.043	
7/17/2019 15:29			0.024	0.043	
7/17/2019 15:30	12.5	113.4	0.024	0.043	42.43253;-76.49828
7/17/2019 15:31			0.024	0.043	
7/17/2019 15:32			0.025	0.043	
7/17/2019 15:33			0.025	0.043	
7/17/2019 15:34			0.025	0.042	
7/17/2019 15:35	12.5	111.3	0.025	0.042	42.43259;-76.49831
7/17/2019 15:36			0.025	0.042	
7/17/2019 15:37			0.025	0.042	
7/17/2019 15:38			0.025	0.042	
7/17/2019 15:39			0.025	0.043	
7/17/2019 15:40	12.4	121.5	0.025	0.043	
7/17/2019 15:40					42.43257;-76.49831
7/17/2019 15:41			0.025	0.042	
7/17/2019 15:42			0.025	0.043	
7/17/2019 15:43			0.026	0.043	
7/17/2019 15:44			0.026	0.042	
7/17/2019 15:45	12.4	115.4	0.026	0.043	
7/17/2019 15:45					42.43256;-76.49828
7/17/2019 15:46			0.026	0.043	
7/17/2019 15:47			0.026	0.042	
7/17/2019 15:48			0.026	0.042	
7/17/2019 15:49			0.026	0.043	
7/17/2019 15:50	12.4	149.8	0.026	0.043	
7/17/2019 15:50					42.43258;-76.49828
7/17/2019 15:51			0.026	0.043	
7/17/2019 15:52			0.026	0.043	
7/17/2019 15:53			0.026	0.043	
7/17/2019 15:54			0.027	0.043	
7/17/2019 15:55	12.4	114.4	0.027	0.043	42.43258;-76.49823
7/17/2019 15:56			0.027	0.043	
7/17/2019 15:57			0.027	0.043	
7/17/2019 15:58			0.027	0.043	
7/17/2019 15:59			0.027	0.043	
7/17/2019 16:00	12.4	113.4	0.027	0.043	42.43261;-76.49825
7/17/2019 16:01			0.027	0.043	
7/17/2019 16:02			0.027	0.044	
7/17/2019 16:03			0.027	0.043	
7/17/2019 16:04			0.027	0.043	
7/17/2019 16:05	12.4	113.4	0.028	0.043	42.43247;-76.49828
7/17/2019 16:06			0.028	0.044	
7/17/2019 16:07			0.028	0.043	
7/17/2019 16:08			0.028	0.044	
7/17/2019 16:09			0.028	0.044	
7/17/2019 16:10	12.4	113.4	0.028	0.044	
7/17/2019 16:10					42.43244;-76.49804
7/17/2019 16:11			0.028	0.044	
7/17/2019 16:12			0.028	0.044	
7/17/2019 16:13			0.028	0.044	
7/17/2019 16:14			0.028	0.044	
7/17/2019 16:15	12.4	113.4	0.028	0.045	42.43253;-76.49823
7/17/2019 16:16			0.029	0.044	
7/17/2019 16:17			0.029	0.044	
7/17/2019 16:18			0.029	0.044	
7/17/2019 16:19			0.029	0.044	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/17/2019 16:20	12.4	115.4	0.029	0.045	42.43257;-76.49819
7/17/2019 16:21			0.029	0.045	
7/17/2019 16:22			0.029	0.044	
7/17/2019 16:23			0.029	0.045	
7/17/2019 16:24			0.029	0.045	
7/17/2019 16:25	12.4	114.4	0.029	0.045	42.43253;-76.49825
7/17/2019 16:26			0.029	0.046	
7/17/2019 16:27			0.03	0.045	
7/17/2019 16:28			0.03	0.045	
7/17/2019 16:29			0.03	0.045	
7/17/2019 16:30	12.4	133.6	0.03	0.045	
7/17/2019 16:30					42.43258;-76.49821
7/17/2019 16:31			0.03	0.045	
7/17/2019 16:32			0.03	0.046	
7/17/2019 16:33			0.03	0.046	
7/17/2019 16:34			0.03	0.046	
7/17/2019 16:35	12.4	118.4	0.03	0.046	42.43257;-76.49817
7/17/2019 16:36			0.03	0.046	
7/17/2019 16:37			0.03	0.046	
7/17/2019 16:38			0.031	0.046	
7/17/2019 16:39			0.031	0.046	
7/17/2019 16:40	12.4	91.1	0.031	0.046	42.4326;-76.49823
7/17/2019 16:41			0.031	0.047	
7/17/2019 16:42			0.031	0.046	
7/17/2019 16:43			0.031	0.046	
7/17/2019 16:44			0.031	0.046	
7/17/2019 16:45	12.4	108.3	0.031	0.046	42.4326;-76.49823
7/17/2019 16:46			0.031	0.046	
7/17/2019 16:47			0.031	0.046	
7/17/2019 16:48			0.032	0.046	
7/17/2019 16:49			0.032	0.046	
7/17/2019 16:50	12.4	94.1	0.032	0.046	42.43261;-76.49825
7/17/2019 16:51			0.032	0.046	
7/17/2019 16:52			0.032	0.046	
7/17/2019 16:53			0.032	0.046	
7/17/2019 16:54			0.032	0.046	
7/17/2019 16:55	12.4	102.2	0.032	0.046	42.43248;-76.49815
7/17/2019 16:56			0.032	0.046	
7/17/2019 16:57			0.032	0.046	
7/17/2019 16:58			0.033	0.046	
7/17/2019 16:59			0.033	0.046	
7/17/2019 17:00	12.4	91.1	0.033	0.046	42.43264;-76.4983
7/17/2019 17:01			0.033	0.045	
7/17/2019 17:02			0.033	0.046	
7/17/2019 17:03			0.033	0.046	
7/17/2019 17:04			0.033	0.046	
7/17/2019 17:05	12.4	123.5	0.033	0.046	42.43269;-76.49834
7/17/2019 17:06			0.033	0.046	
7/17/2019 17:07			0.033	0.045	
7/17/2019 17:08			0.033	0.045	
7/17/2019 17:09			0.034	0.045	
7/17/2019 17:10	12.4	92.1	0.034	0.045	42.43264;-76.49828
7/17/2019 17:11			0.034	0.046	
7/17/2019 17:12			0.034	0.045	
7/17/2019 17:13			0.034	0.046	
7/17/2019 17:14			0.034	0.045	
7/17/2019 17:15	12.4	90.1	0.034	0.045	42.43259;-76.49825
7/17/2019 17:16			0.034	0.046	
7/17/2019 17:17			0.034	0.046	
7/17/2019 17:18			0.034	0.046	
7/17/2019 17:19			0.035	0.046	
7/17/2019 17:20	12.4	102.2	0.035	0.048	42.43253;-76.49815
7/17/2019 17:21			0.035	0.046	
7/17/2019 17:22			0.035	0.049	
7/17/2019 17:23			0.035	0.046	
7/17/2019 17:24			0.035	0.046	
7/17/2019 17:25	12.4	103.2	0.035	0.046	42.43277;-76.49815
7/17/2019 17:26			0.035	0.046	
7/17/2019 17:27			0.035	0.046	
7/17/2019 17:28			0.035	0.046	
7/17/2019 17:29			0.035	0.046	
7/17/2019 17:30	12.4	90.1	0.036	0.046	42.43246;-76.49806
7/17/2019 17:31			0.036	0.046	
7/17/2019 17:32			0.036	0.046	
7/17/2019 17:33			0.036	0.046	
7/17/2019 17:34			0.036	0.046	
7/17/2019 17:35	12.4	91.1	0.036	0.046	42.43231;-76.49804
7/17/2019 17:36			0.036	0.046	
7/17/2019 17:37			0.036	0.046	
7/17/2019 17:38			0.036	0.045	
7/17/2019 17:39			0.036	0.046	
7/17/2019 17:40	12.4	93.1	0.037	0.047	42.43246;-76.49819
7/17/2019 17:41			0.037	0.046	
7/17/2019 17:42			0.037	0.046	
7/17/2019 17:43			0.037	0.046	
7/17/2019 17:44			0.037	0.046	
7/17/2019 17:45	12.3	95.1	0.037	0.045	42.43251;-76.49819
7/17/2019 17:46			0.037	0.045	
7/17/2019 17:47			0.037	0.045	
7/17/2019 17:48			0.037	0.045	
7/17/2019 17:49			0.037	0.045	
7/17/2019 17:50	12.4	98.2	0.037	0.045	42.43251;-76.49819
7/17/2019 17:51			0.038	0.045	
7/17/2019 17:52			0.038	0.044	
7/17/2019 17:53			0.038	0.045	
7/17/2019 17:54			0.038	0.045	
7/17/2019 17:55	12.4	92.1	0.038	0.045	42.43246;-76.49819
7/17/2019 17:56			0.038	0.045	
7/17/2019 17:57			0.038	0.045	
7/17/2019 17:58			0.038	0.045	
7/17/2019 17:59			0.038	0.045	
7/17/2019 18:00	12.3	100.2	0.038	0.045	42.43257;-76.49825
7/17/2019 18:01			0.039	0.045	
7/17/2019 18:02			0.039	0.044	
7/17/2019 18:03			0.039	0.044	
7/17/2019 18:04			0.039	0.043	
7/17/2019 18:05	12.3	101.2	0.039	0.043	42.4325;-76.49823
7/17/2019 18:06			0.039	0.043	
7/17/2019 18:07			0.039	0.043	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/17/2019 18:08			0.039	0.043	
7/17/2019 18:09			0.039	0.043	
7/17/2019 18:10	12.3	99.2	0.039	0.043	42.43247;-76.49823
7/17/2019 18:11			0.039	0.043	
7/17/2019 18:12			0.039	0.042	
7/17/2019 18:13			0.04	0.042	
7/17/2019 18:14			0.04	0.042	
7/17/2019 18:15	12.3	95.1	0.04	0.042	42.43262;-76.49821
7/17/2019 18:16			0.04	0.042	
7/17/2019 18:17			0.04	0.043	
7/17/2019 18:18			0.04	0.043	
7/17/2019 18:19			0.04	0.042	
7/17/2019 18:20	12.3	91.1	0.04	0.042	42.43253;-76.49825
7/17/2019 18:21			0.04	0.042	
7/17/2019 18:22			0.04	0.042	
7/17/2019 18:23			0.04	0.043	
7/17/2019 18:24			0.041	0.043	
7/17/2019 18:25	12.3	93.1	0.041	0.043	42.43253;-76.49828
7/17/2019 18:26			0.041	0.043	
7/17/2019 18:27			0.041	0.043	
7/17/2019 18:28			0.041	0.043	
7/17/2019 18:29			0.041	0.043	
7/17/2019 18:30	12.3	92.1	0.041	0.042	42.43258;-76.4983
7/17/2019 18:31			0.041	0.043	
7/17/2019 18:32			0.041	0.043	
7/17/2019 18:33			0.041	0.043	
7/17/2019 18:34			0.041	0.043	
7/17/2019 18:35	12.3	93.1	0.042	0.043	42.43273;-76.49821
7/17/2019 18:36			0.042	0.043	
7/17/2019 18:37			0.042	0.043	
7/17/2019 18:38			0.042	0.043	
7/17/2019 18:39			0.042	0.043	
7/17/2019 18:40	12.3	100.2	0.042	0.043	42.43264;-76.49821
7/17/2019 18:41			0.042	0.043	
7/17/2019 18:42			0.042	0.043	
7/17/2019 18:43			0.042	0.044	
7/17/2019 18:44			0.042	0.044	
7/17/2019 18:45	12.3	95.1	0.042	0.044	42.43262;-76.49823
7/17/2019 18:46			0.043	0.044	
7/17/2019 18:47			0.043	0.044	
7/17/2019 18:48			0.043	0.044	
7/17/2019 18:49			0.043	0.045	
7/17/2019 18:50	12.3	92.1	0.043	0.045	42.43258;-76.49825
7/17/2019 18:51			0.043	0.046	
7/17/2019 18:52			0.043	0.045	
7/17/2019 18:53			0.043	0.046	
7/17/2019 18:54			0.043	0.046	
7/17/2019 18:55	12.3	103.2	0.043	0.046	42.43253;-76.4983
7/17/2019 18:56			0.043	0.046	
7/17/2019 18:57			0.044	0.046	
7/17/2019 18:58			0.044	0.045	
7/17/2019 18:59			0.044	0.045	
7/17/2019 19:00	12.3	91.1	0.044	0.046	42.43238;-76.49834
7/17/2019 19:01			0.044	0.045	
7/17/2019 19:02			0.044	0.046	
7/17/2019 19:03			0.044	0.045	
7/17/2019 19:04			0.044	0.046	
7/17/2019 19:05	12.3	102.2	0.044	0.045	42.43251;-76.49828
7/17/2019 19:06			0.044	0.045	
7/17/2019 19:07			0.045	0.045	
7/17/2019 19:08			0.045	0.044	
7/17/2019 19:09			0.045	0.044	
7/17/2019 19:10	12.3	91.1	0.045	0.044	42.4325;-76.49823
7/17/2019 19:11			0.045	0.044	
7/17/2019 19:12			0.045	0.044	
7/17/2019 19:13			0.045	0.044	
7/17/2019 19:14			0.045	0.044	
7/17/2019 19:15	12.3	91.1	0.045	0.044	42.4325;-76.49828
7/17/2019 19:16			0.045	0.044	
7/17/2019 19:17			0.045	0.044	
7/17/2019 19:18			0.046	0.044	
7/17/2019 19:19			0.046	0.045	
7/17/2019 19:20	12.2	100.2	0.046	0.044	42.43251;-76.49825
7/17/2019 19:21			0.046	0.044	
7/17/2019 19:22			0.046	0.044	
7/17/2019 19:23			0.046	0.045	
7/17/2019 19:24			0.046	0.044	
7/17/2019 19:25	12.3	94.1	0.046	0.045	42.4325;-76.49823
7/17/2019 19:26			0.046	0.044	
7/17/2019 19:27			0.046	0.045	
7/17/2019 19:28			0.046	0.044	
7/17/2019 19:29			0.047	0.044	
7/17/2019 19:30	12.2	95.1	0.047	0.044	42.43253;-76.49817
7/17/2019 19:31			0.047	0.045	
7/17/2019 19:32			0.047	0.044	
7/17/2019 19:33			0.047	0.047	
7/17/2019 19:34			0.047	0.045	
7/17/2019 19:35	12.2	92.1	0.047	0.044	42.4325;-76.49821
7/17/2019 19:36			0.047	0.044	
7/17/2019 19:37			0.047	0.044	
7/17/2019 19:38			0.047	0.044	
7/17/2019 19:39			0.047	0.044	
7/17/2019 19:40	12.3	93.1	0.048	0.044	42.43249;-76.49821
7/17/2019 19:41			0.048	0.044	
7/17/2019 19:42			0.048	0.044	
7/17/2019 19:43			0.048	0.044	
7/17/2019 19:44			0.048	0.044	
7/17/2019 19:45	12.2	92.1	0.048	0.044	42.43253;-76.49823
7/17/2019 19:46			0.048	0.044	
7/17/2019 19:47			0.048	0.043	
7/17/2019 19:48			0.048	0.044	
7/17/2019 19:49			0.048	0.044	
7/17/2019 19:50	12.2	101.2	0.048	0.044	42.4325;-76.49821
7/17/2019 19:51			0.048	0.044	
7/17/2019 19:52			0.048	0.044	
7/17/2019 19:53			0.048	0.046	
7/17/2019 19:54			0.048	0.044	
7/17/2019 19:55	12.2	93.1	0.048	0.043	42.43253;-76.49825
7/17/2019 19:56			0.048	0.043	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/17/2019 19:57			0.048	0.043	
7/17/2019 19:58			0.048	0.043	
7/17/2019 19:59			0.048	0.043	
7/17/2019 20:00	12.2	102.2	0.048	0.043	42.4325;-76.49821
7/17/2019 20:01			0.048	0.043	
7/17/2019 20:02			0.048	0.043	
7/17/2019 20:03			0.048	0.043	
7/17/2019 20:04			0.048	0.043	
7/17/2019 20:05	12.2	91.1	0.048	0.043	42.4325;-76.49821
7/17/2019 20:06			0.048	0.043	
7/17/2019 20:07			0.048	0.043	
7/17/2019 20:08			0.048	0.043	
7/17/2019 20:09			0.048	0.043	
7/17/2019 20:10	12.2	109.3	0.048	0.043	42.43253;-76.49823
7/17/2019 20:11			0.048	0.043	
7/17/2019 20:12			0.048	0.043	
7/17/2019 20:13			0.048	0.043	
7/17/2019 20:14			0.048	0.043	
7/17/2019 20:15	12.2	99.2	0.048	0.043	42.43253;-76.49823
7/17/2019 20:16			0.048	0.044	
7/17/2019 20:17			0.048	0.044	
7/17/2019 20:18			0.048	0.044	
7/17/2019 20:19			0.048	0.044	
7/17/2019 20:20	12.2	91.1	0.048	0.044	42.43253;-76.49825
7/17/2019 20:21			0.048	0.044	
7/17/2019 20:22			0.048	0.044	
7/17/2019 20:23			0.048	0.044	
7/17/2019 20:24			0.048	0.044	
7/17/2019 20:25	12.2	102.2	0.048	0.044	42.43255;-76.49823
7/17/2019 20:26			0.048	0.048	
7/17/2019 20:27			0.048	0.049	
7/17/2019 20:28			0.048	0.048	
7/17/2019 20:29			0.048	0.049	
7/17/2019 20:30	12.2	92.1	0.048	0.047	42.43261;-76.4983
7/17/2019 20:31			0.048	0.047	
7/17/2019 20:32			0.048	0.048	
7/17/2019 20:33			0.048	0.048	
7/17/2019 20:34			0.048	0.05	
7/17/2019 20:35	12.2	98.2	0.048	0.054	
7/17/2019 20:35					42.43259;-76.49828
7/17/2019 20:36			0.048	0.05	
7/17/2019 20:37			0.048	0.05	
7/17/2019 20:38			0.048	0.05	
7/17/2019 20:39			0.048	0.049	
7/18/2019 14:58	12.8	117.4			
7/18/2019 15:00	12.7	91.1			
7/18/2019 15:01			0	0.072	
7/18/2019 15:02			0	0.068	
7/18/2019 15:03			0	0.068	
7/18/2019 15:04			0	0.064	
7/18/2019 15:05	12.7	89.1	0	0.063	
7/18/2019 15:06			0	0.062	
7/18/2019 15:07			0	0.064	
7/18/2019 15:08			0	0.063	
7/18/2019 15:09			0	0.061	
7/18/2019 15:10	12.7	96.2	0	0.059	
7/18/2019 15:11			0	0.059	
7/18/2019 15:12			0	0.058	
7/18/2019 15:13			0	0.059	
7/18/2019 15:14			0	0.059	
7/18/2019 15:15	12.7	101.2	0	0.058	
7/18/2019 15:16			0.002	0.057	
7/18/2019 15:17			0.002	0.057	
7/18/2019 15:18			0.002	0.059	
7/18/2019 15:19			0.002	0.057	
7/18/2019 15:20	12.7	96.2	0.003	0.057	
7/18/2019 15:21			0.003	0.061	
7/18/2019 15:22			0.003	0.06	
7/18/2019 15:23			0.003	0.06	
7/18/2019 15:24			0.003	0.057	
7/18/2019 15:25	12.7	96.2	0.003	0.056	
7/18/2019 15:26			0.003	0.055	
7/18/2019 15:27			0.003	0.056	
7/18/2019 15:28			0.003	0.057	
7/18/2019 15:29			0.004	0.056	
7/18/2019 15:30	12.7	97.2	0.004	0.055	
7/18/2019 15:31			0.004	0.055	
7/18/2019 15:32			0.004	0.057	
7/18/2019 15:33			0.004	0.057	
7/18/2019 15:34			0.004	0.058	
7/18/2019 15:35	12.6	92.1	0.004	0.058	
7/18/2019 15:36			0.004	0.058	
7/18/2019 15:37			0.005	0.057	
7/18/2019 15:38			0.005	0.056	
7/18/2019 15:39			0.005	0.058	
7/18/2019 15:40	12.6	96.2	0.005	0.056	
7/18/2019 15:41			0.005	0.056	
7/18/2019 15:42			0.005	0.056	
7/18/2019 15:43			0.005	0.055	
7/18/2019 15:44			0.005	0.055	
7/18/2019 15:45	12.6	96.2	0.005	0.057	
7/18/2019 15:46			0.006	0.056	
7/18/2019 15:47			0.006	0.056	
7/18/2019 15:48			0.006	0.054	
7/18/2019 15:49			0.006	0.079	
7/18/2019 15:50	12.6	89.1	0.006	0.066	
7/18/2019 15:51			0.006	0.063	
7/18/2019 15:52			0.006	0.056	
7/18/2019 15:53			0.006	0.056	
7/18/2019 15:54			0.007	0.056	
7/18/2019 15:55	12.6	91.1	0.007	0.057	
7/18/2019 15:56			0.007	0.057	
7/18/2019 15:57			0.007	0.056	
7/18/2019 15:58			0.007	0.056	
7/18/2019 15:59			0.007	0.056	
7/18/2019 16:00	12.6	96.2	0.007	0.056	
7/18/2019 16:01			0.007	0.056	
7/18/2019 16:02			0.008	0.055	
7/18/2019 16:03			0.008	0.055	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/18/2019 16:04			0.008	0.055	
7/18/2019 16:05	12.6	97.2	0.008	0.069	
7/18/2019 16:06			0.008	0.054	
7/18/2019 16:07			0.008	0.052	
7/18/2019 16:08			0.008	0.053	
7/18/2019 16:09			0.008	0.055	
7/18/2019 16:10	12.6	90.1	0.008	0.053	
7/18/2019 16:11			0.009	0.052	
7/18/2019 16:12			0.009	0.053	
7/18/2019 16:13			0.009	0.053	
7/18/2019 16:14			0.009	0.054	
7/18/2019 16:15	12.6	97.2	0.009	0.054	
7/18/2019 16:16			0.009	0.054	
7/18/2019 16:17			0.009	0.055	
7/18/2019 16:18			0.009	0.053	
7/18/2019 16:19			0.009	0.053	
7/18/2019 16:20	12.6	98.2	0.01	0.052	
7/18/2019 16:21			0.01	0.053	
7/18/2019 16:22			0.01	0.054	
7/18/2019 16:23			0.01	0.053	
7/18/2019 16:24			0.01	0.055	
7/18/2019 16:25	12.6	89.1	0.01	0.052	
7/18/2019 16:26			0.01	0.054	
7/18/2019 16:27			0.01	0.054	
7/18/2019 16:28			0.01	0.054	
7/18/2019 16:29			0.011	0.054	
7/18/2019 16:30	12.6	108.3	0.011	0.055	
7/18/2019 16:31			0.011	0.053	
7/18/2019 16:32			0.011	0.053	
7/18/2019 16:33			0.011	0.053	
7/18/2019 16:34			0.011	0.054	
7/18/2019 16:35	12.6	96.2	0.011	0.054	
7/18/2019 16:36			0.011	0.053	
7/18/2019 16:37			0.011	0.054	
7/18/2019 16:38			0.012	0.055	
7/18/2019 16:39			0.012	0.057	
7/18/2019 16:40	12.6	96.2	0.012	0.061	
7/18/2019 16:41			0.012	0.059	
7/18/2019 16:42			0.012	0.061	
7/18/2019 16:43			0.012	0.054	
7/18/2019 16:44			0.012	0.054	
7/18/2019 16:45	12.6	107.3	0.012	0.055	
7/18/2019 16:46			0.013	0.055	
7/18/2019 16:47			0.013	0.059	
7/18/2019 16:48			0.013	0.059	
7/18/2019 16:49			0.013	0.059	
7/18/2019 16:50	12.6	99.2	0.013	0.059	
7/18/2019 16:51			0.013	0.061	
7/18/2019 16:52			0.013	0.062	
7/18/2019 16:53			0.013	0.06	
7/18/2019 16:54			0.014	0.062	
7/18/2019 16:55	12.6	93.1	0.014	0.06	
7/18/2019 16:56			0.014	0.059	
7/18/2019 16:57			0.014	0.06	
7/18/2019 16:58			0.014	0.059	
7/18/2019 16:59			0.014	0.06	
7/18/2019 17:00	12.6	95.1	0.014	0.058	
7/18/2019 17:01			0.014	0.058	
7/18/2019 17:02			0.015	0.06	
7/18/2019 17:03			0.015	0.076	
7/18/2019 17:04			0.015	0.087	
7/18/2019 17:05	12.6	98.2	0.015	0.088	
7/18/2019 17:06			0.015	0.09	
7/18/2019 17:07			0.015	0.094	
7/18/2019 17:08			0.016	0.096	
7/18/2019 17:09			0.016	0.089	
7/18/2019 17:10	12.6	100.2	0.016	0.094	
7/18/2019 17:11			0.016	0.097	
7/18/2019 17:12			0.016	0.091	
7/18/2019 17:13			0.017	0.089	
7/18/2019 17:14			0.017	0.074	
7/18/2019 17:15	12.6	96.2	0.017	0.072	
7/18/2019 17:16			0.017	0.078	
7/18/2019 17:17			0.017	0.084	
7/18/2019 17:18			0.017	0.074	
7/18/2019 17:19			0.018	0.067	
7/18/2019 17:20	12.6	91.1	0.018	0.066	
7/18/2019 17:21			0.018	0.072	
7/18/2019 17:22			0.018	0.075	
7/18/2019 17:23			0.018	0.071	
7/18/2019 17:24			0.018	0.067	
7/18/2019 17:25	12.6	94.1	0.018	0.066	
7/18/2019 17:26			0.019	0.066	
7/18/2019 17:27			0.019	0.064	
7/18/2019 17:28			0.019	0.066	
7/18/2019 17:29			0.019	0.067	
7/18/2019 17:30	12.6	96.2	0.019	0.064	
7/18/2019 17:31			0.019	0.063	
7/18/2019 17:32			0.019	0.066	
7/18/2019 17:33			0.02	0.067	
7/18/2019 17:34			0.02	0.069	
7/18/2019 17:35	12.6	96.2	0.02	0.066	
7/18/2019 17:36			0.02	0.065	
7/18/2019 17:37			0.02	0.067	
7/18/2019 17:38			0.02	0.067	
7/18/2019 17:39			0.02	0.065	
7/18/2019 17:40	12.6	91.1	0.02	0.07	
7/18/2019 17:41			0.021	0.069	
7/18/2019 17:42			0.021	0.065	
7/18/2019 17:43			0.021	0.064	
7/18/2019 17:44			0.021	0.066	
7/18/2019 17:45	12.6	103.2	0.021	0.068	
7/18/2019 17:46			0.021	0.065	
7/18/2019 17:47			0.021	0.065	
7/18/2019 17:48			0.022	0.065	
7/18/2019 17:49			0.022	0.063	
7/18/2019 17:50	12.6	98.2	0.022	0.063	42.43115;-76.49809
7/18/2019 17:51			0.022	0.066	
7/18/2019 17:52			0.022	0.065	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/18/2019 17:53			0.022	0.065	
7/18/2019 17:54			0.022	0.065	
7/18/2019 17:55	12.5	91.1	0.023	0.066	42.4315;-76.49825
7/18/2019 17:56			0.023	0.061	
7/18/2019 17:57			0.023	0.06	
7/18/2019 17:58			0.023	0.061	
7/18/2019 17:59			0.023	0.062	
7/18/2019 18:00	12.5	106.3	0.023	0.061	
7/18/2019 18:00					42.43124;-76.49809
7/18/2019 18:01			0.023	0.061	
7/18/2019 18:02			0.023	0.058	
7/18/2019 18:03			0.024	0.059	
7/18/2019 18:04			0.024	0.061	
7/18/2019 18:05	12.5	97.2	0.024	0.06	
7/18/2019 18:05					42.43138;-76.49828
7/18/2019 18:06			0.024	0.059	
7/18/2019 18:07			0.024	0.064	
7/18/2019 18:08			0.024	0.064	
7/18/2019 18:09			0.024	0.062	
7/18/2019 18:10	12.5	90.1	0.024	0.061	
7/18/2019 18:11			0.025	0.061	
7/18/2019 18:12			0.025	0.065	
7/18/2019 18:13			0.025	0.065	
7/18/2019 18:14			0.025	0.068	
7/18/2019 18:15	12.5	95.1	0.025	0.063	42.43166;-76.49791
7/18/2019 18:16			0.025	0.066	
7/18/2019 18:17			0.025	0.068	
7/18/2019 18:18			0.026	0.066	
7/18/2019 18:19			0.026	0.064	
7/18/2019 18:20	12.5	98.2	0.026	0.066	
7/18/2019 18:20					42.43309;-76.49868
7/18/2019 18:21			0.026	0.069	
7/18/2019 18:22			0.026	0.068	
7/18/2019 18:23			0.026	0.07	
7/18/2019 18:24			0.026	0.071	
7/18/2019 18:25	12.5	98.2	0.027	0.071	
7/18/2019 18:25					42.43175;-76.49786
7/18/2019 18:26			0.027	0.069	
7/18/2019 18:27			0.027	0.065	
7/18/2019 18:28			0.027	0.065	
7/18/2019 18:29			0.027	0.063	
7/18/2019 18:30	12.5	92.1	0.027	0.064	42.43145;-76.49783
7/18/2019 18:31			0.027	0.064	
7/18/2019 18:32			0.027	0.066	
7/18/2019 18:33			0.028	0.065	
7/18/2019 18:34			0.028	0.065	
7/18/2019 18:35	12.5	101.2	0.028	0.064	
7/18/2019 18:35					42.43121;-76.49809
7/18/2019 18:36			0.028	0.065	
7/18/2019 18:37			0.028	0.064	
7/18/2019 18:38			0.028	0.064	
7/18/2019 18:39			0.028	0.097	
7/18/2019 18:40	12.5	89.1	0.029	0.078	
7/18/2019 18:40					42.43049;-76.49828
7/18/2019 18:41			0.029	0.063	
7/18/2019 18:42			0.029	0.061	
7/18/2019 18:43			0.029	0.067	
7/18/2019 18:44			0.029	0.067	
7/18/2019 18:45	12.5	103.2	0.029	0.068	42.43141;-76.49797
7/18/2019 18:46			0.029	0.062	
7/18/2019 18:47			0.03	0.065	
7/18/2019 18:48			0.03	0.064	
7/18/2019 18:49			0.03	0.063	
7/18/2019 18:50	12.5	91.1	0.03	0.06	42.43142;-76.49806
7/18/2019 18:51			0.03	0.059	
7/18/2019 18:52			0.03	0.061	
7/18/2019 18:53			0.03	0.067	
7/18/2019 18:54			0.03	0.063	
7/18/2019 18:55	12.5	91.1	0.031	0.063	42.43118;-76.49806
7/18/2019 18:56			0.031	0.062	
7/18/2019 18:57			0.031	0.062	
7/18/2019 18:58			0.031	0.062	
7/18/2019 18:59			0.031	0.061	
7/18/2019 19:00	12.5	92.1	0.031	0.062	
7/18/2019 19:00					42.43104;-76.49804
7/18/2019 19:01			0.031	0.063	
7/18/2019 19:02			0.032	0.064	
7/18/2019 19:03			0.032	0.064	
7/18/2019 19:04			0.032	0.062	
7/18/2019 19:05	12.5	91.1	0.032	0.063	42.43128;-76.49796
7/18/2019 19:06			0.032	0.062	
7/18/2019 19:07			0.032	0.061	
7/18/2019 19:08			0.032	0.061	
7/18/2019 19:09			0.032	0.062	
7/18/2019 19:10	12.5	98.2	0.033	0.06	42.43116;-76.49799
7/18/2019 19:11			0.033	0.06	
7/18/2019 19:12			0.033	0.06	
7/18/2019 19:13			0.033	0.061	
7/18/2019 19:14			0.033	0.061	
7/18/2019 19:15	12.5	91.1	0.033	0.061	42.43124;-76.49806
7/18/2019 19:16			0.033	0.06	
7/18/2019 19:17			0.033	0.063	
7/18/2019 19:18			0.034	0.06	
7/18/2019 19:19			0.034	0.058	
7/18/2019 19:20	12.5	91.1	0.034	0.058	42.43107;-76.49806
7/18/2019 19:21			0.034	0.058	
7/18/2019 19:22			0.034	0.058	
7/18/2019 19:23			0.034	0.059	
7/18/2019 19:24			0.034	0.058	
7/18/2019 19:25	12.5	105.3	0.034	0.058	
7/18/2019 19:25					42.43122;-76.49804
7/18/2019 19:26			0.035	0.057	
7/18/2019 19:27			0.035	0.059	
7/18/2019 19:28			0.035	0.059	
7/18/2019 19:29			0.035	0.058	
7/18/2019 19:30	12.5	92.1	0.035	0.058	
7/18/2019 19:30					42.43126;-76.49819
7/18/2019 19:31			0.035	0.059	
7/18/2019 19:32			0.035	0.06	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/18/2019 19:33			0.035	0.059	
7/18/2019 19:34			0.036	0.06	
7/18/2019 19:35	12.5	90.1	0.036	0.059	
7/18/2019 19:35					42.4313;-76.49817
7/18/2019 19:36			0.036	0.06	
7/18/2019 19:37			0.036	0.06	
7/18/2019 19:38			0.036	0.059	
7/18/2019 19:39			0.036	0.057	
7/18/2019 19:40	12.5	91.1	0.036	0.056	42.43148;-76.49809
7/18/2019 19:41			0.036	0.055	
7/18/2019 19:42			0.036	0.057	
7/18/2019 19:43			0.037	0.058	
7/18/2019 19:44			0.037	0.056	
7/18/2019 19:45	12.5	101.2	0.037	0.056	42.43133;-76.49821
7/18/2019 19:46			0.037	0.056	
7/18/2019 19:47			0.037	0.055	
7/18/2019 19:48			0.037	0.055	
7/18/2019 19:49			0.037	0.056	
7/18/2019 19:50	12.5	92.1	0.037	0.059	42.43118;-76.49841
7/18/2019 19:51			0.038	0.057	
7/18/2019 19:52			0.038	0.058	
7/18/2019 19:53			0.038	0.057	
7/18/2019 19:54			0.038	0.057	
7/18/2019 19:55	12.4	104.3	0.038	0.056	
7/18/2019 19:55					42.4314;-76.49806
7/18/2019 19:56			0.038	0.057	
7/18/2019 19:57			0.038	0.058	
7/18/2019 19:58			0.038	0.059	
7/18/2019 19:59			0.038	0.059	
7/18/2019 20:00	12.4	91.1	0.039	0.059	
7/18/2019 20:00					42.43166;-76.49825
7/18/2019 20:01			0.039	0.057	
7/18/2019 20:02			0.039	0.058	
7/18/2019 20:03			0.039	0.057	
7/18/2019 20:04			0.039	0.059	
7/18/2019 20:05	12.4	93.1	0.039	0.057	42.43167;-76.49817
7/18/2019 20:06			0.039	0.058	
7/18/2019 20:07			0.039	0.058	
7/18/2019 20:08			0.04	0.057	
7/18/2019 20:09			0.04	0.058	
7/18/2019 20:10	12.4	91.1	0.04	0.06	
7/18/2019 20:10					42.43125;-76.49809
7/18/2019 20:11			0.04	0.058	
7/18/2019 20:12			0.04	0.056	
7/18/2019 20:13			0.04	0.056	
7/18/2019 20:14			0.04	0.071	
7/18/2019 20:15	12.4	98.2	0.041	0.168	42.43156;-76.49812
7/18/2019 20:16			0.041	0.175	
7/18/2019 20:17			0.041	0.075	
7/18/2019 20:18			0.041	0.059	
7/18/2019 20:19			0.041	0.055	
7/18/2019 20:20	12.4	101.2	0.042	0.057	
7/18/2019 20:20					42.43122;-76.49821
7/18/2019 20:21			0.042	0.062	
7/18/2019 20:22			0.042	0.063	
7/18/2019 20:23			0.042	0.064	
7/18/2019 20:24			0.042	0.064	
7/18/2019 20:25	12.4	93.1	0.042	0.064	42.43147;-76.49819
7/18/2019 20:26			0.042	0.062	
7/18/2019 20:27			0.042	0.057	
7/18/2019 20:28			0.043	0.056	
7/18/2019 20:29			0.043	0.057	
7/18/2019 20:30	12.4	86	0.043	0.057	42.43152;-76.49819
7/18/2019 20:31			0.043	0.055	
7/18/2019 20:32			0.043	0.055	
7/18/2019 20:33			0.043	0.057	
7/18/2019 20:34			0.043	0.056	
7/18/2019 20:35	12.4	95.1	0.043	0.056	42.43132;-76.4981
7/18/2019 20:36			0.044	0.067	
7/18/2019 20:37			0.044	0.071	
7/18/2019 20:38			0.044	0.068	
7/18/2019 20:39			0.044	0.065	
7/18/2019 20:40	12.4	93.1	0.044	0.069	42.43147;-76.49817
7/18/2019 20:41			0.044	0.071	
7/18/2019 20:42			0.044	0.061	
7/18/2019 20:43			0.045	0.061	
7/18/2019 20:44			0.045	0.056	
7/18/2019 20:45	12.4	98.2	0.045	0.053	42.43178;-76.49815
7/18/2019 20:46			0.045	0.054	
7/18/2019 20:47			0.045	0.057	
7/18/2019 20:48			0.045	0.056	
7/18/2019 20:49			0.045	0.056	
7/18/2019 20:50	12.4	105.3	0.045	0.06	42.43153;-76.49806
7/18/2019 20:51			0.045	0.06	
7/18/2019 20:52			0.046	0.06	
7/18/2019 20:53			0.046	0.059	
7/18/2019 20:54			0.046	0.057	
7/18/2019 20:55	12.4	102.2	0.046	0.056	42.43143;-76.49817
7/18/2019 20:56			0.046	0.056	
7/18/2019 20:57			0.046	0.057	
7/18/2019 20:58			0.046	0.056	
7/18/2019 20:59			0.046	0.055	
7/18/2019 21:00	12.4	91.1	0.047	0.055	
7/18/2019 21:00					42.43107;-76.4983
7/18/2019 21:01			0.047	0.056	
7/18/2019 21:02			0.047	0.055	
7/18/2019 21:03			0.047	0.055	
7/18/2019 21:04			0.047	0.056	
7/18/2019 21:05	12.4	91.1	0.047	0.055	
7/18/2019 21:05					42.43159;-76.49804
7/18/2019 21:06			0.047	0.056	
7/18/2019 21:07			0.047	0.057	
7/18/2019 21:08			0.047	0.056	
7/18/2019 21:09			0.048	0.056	
7/18/2019 21:10	12.4	92.1	0.048	0.056	
7/18/2019 21:10					42.43093;-76.49843
7/18/2019 21:11			0.048	0.055	
7/18/2019 21:12			0.048	0.056	
7/18/2019 21:13			0.048	0.056	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/18/2019 21:14			0.048	0.056	
7/18/2019 21:15	12.4	94.1	0.048	0.054	42.43139;-76.49828
7/18/2019 21:16			0.048	0.054	
7/18/2019 21:17			0.048	0.055	
7/18/2019 21:18			0.049	0.054	
7/18/2019 21:19			0.049	0.054	
7/18/2019 21:20	12.4	102.2	0.049	0.054	
7/18/2019 21:20					42.43087;-76.49823
7/18/2019 21:21			0.049	0.054	
7/18/2019 21:22			0.049	0.055	
7/18/2019 21:23			0.049	0.056	
7/18/2019 21:24			0.049	0.054	
7/18/2019 21:25	12.3	93.1	0.049	0.054	
7/18/2019 21:25					42.43167;-76.49819
7/18/2019 21:26			0.049	0.054	
7/18/2019 21:27			0.05	0.054	
7/18/2019 21:28			0.05	0.054	
7/18/2019 21:29			0.05	0.055	
7/18/2019 21:30	12.4	102.2	0.05	0.055	42.43156;-76.49841
7/18/2019 21:31			0.05	0.055	
7/18/2019 21:32			0.05	0.054	
7/18/2019 21:33			0.05	0.053	
7/18/2019 21:34			0.05	0.053	
7/18/2019 21:35	12.5	96.2		0.054	
7/18/2019 21:35					42.431;-76.49802
7/31/2019 13:20					42.43201;-76.49857
7/31/2019 13:21			0	0.006	
7/31/2019 13:22			0	0.006	
7/31/2019 13:23			0	0.006	
7/31/2019 13:24			0	0.006	
7/31/2019 13:25	12.4	91.1	0	0.005	42.43219;-76.49864
7/31/2019 13:26			0	0.005	
7/31/2019 13:27			0	0.006	
7/31/2019 13:28			0	0.006	
7/31/2019 13:29			0	0.006	
7/31/2019 13:30	12.3	89.1	0	0.006	
7/31/2019 13:30					42.43218;-76.49868
7/31/2019 13:31			0	0.006	
7/31/2019 13:32			0	0.006	
7/31/2019 13:33			0	0.004	
7/31/2019 13:34			0	0.005	
7/31/2019 13:35	12.4	91.1	0	0.004	42.43222;-76.49868
7/31/2019 13:36			0	0.004	
7/31/2019 13:37			0	0.004	
7/31/2019 13:38			0	0.004	
7/31/2019 13:39			0	0.004	
7/31/2019 13:40	12.4	91.1	0	0.003	42.43225;-76.49879
7/31/2019 13:41			0	0.004	
7/31/2019 13:42			0	0.003	
7/31/2019 13:43			0	0.003	
7/31/2019 13:44			0	0.004	
7/31/2019 13:45	12.4	95.1	0	0.004	42.43228;-76.49886
7/31/2019 13:46			0	0.004	
7/31/2019 13:47			0	0.004	
7/31/2019 13:48			0	0.006	
7/31/2019 13:49			0	0.005	
7/31/2019 13:50	12.4	104.3	0	0.005	42.43242;-76.49894
7/31/2019 13:51			0	0.006	
7/31/2019 13:52			0	0.004	
7/31/2019 13:53			0	0.004	
7/31/2019 13:54			0	0.004	
7/31/2019 13:55	12.4	91.1	0	0.003	42.43225;-76.49868
7/31/2019 13:56			0	0.004	
7/31/2019 13:57			0	0.003	
7/31/2019 13:58			0	0.004	
7/31/2019 13:59			0	0.003	
7/31/2019 14:00	12.4	92.1	0	0.003	42.43229;-76.49881
7/31/2019 14:01			0	0.003	
7/31/2019 14:02			0	0.003	
7/31/2019 14:03			0	0.002	
7/31/2019 14:04			0	0.001	
7/31/2019 14:05	12.4	91.1	0	0.001	42.43236;-76.49879
7/31/2019 14:06			0	0.001	
7/31/2019 14:07			0	0.001	
7/31/2019 14:08			0	0.001	
7/31/2019 14:09			0	0.001	
7/31/2019 14:10	12.5	114.4	0	0.001	42.43222;-76.49866
7/31/2019 14:11			0	0.001	
7/31/2019 14:12			0	0.001	
7/31/2019 14:13			0	0.001	
7/31/2019 14:14			0	0.001	
7/31/2019 14:15	12.5	113.4	0	0.002	42.43221;-76.49868
7/31/2019 14:16			0	0.002	
7/31/2019 14:17			0	0.008	
7/31/2019 14:18			0	0.011	
7/31/2019 14:19			0.001	0.007	
7/31/2019 14:20	12.5	123.5	0.001	0.006	
7/31/2019 14:20					42.4323;-76.49875
7/31/2019 14:21			0.001	0.002	
7/31/2019 14:22			0.001	0.003	
7/31/2019 14:23			0.001	0.002	
7/31/2019 14:24			0.001	0.002	
7/31/2019 14:25	12.5	90.1	0.001	0.002	
7/31/2019 14:26			0.001	0.002	42.43225;-76.4987
7/31/2019 14:27			0.001	0.002	
7/31/2019 14:28			0.001	0.002	
7/31/2019 14:29			0.001	0.002	
7/31/2019 14:30	12.5	95.1	0.001	0.002	
7/31/2019 14:31			0.001	0.002	42.43225;-76.49877
7/31/2019 14:32			0.001	0.003	
7/31/2019 14:33			0.001	0.002	
7/31/2019 14:34			0.001	0.002	
7/31/2019 14:35	12.5	104.3	0.001	0.002	
7/31/2019 14:36			0.001	0.003	
7/31/2019 14:37			0.001	0.002	
7/31/2019 14:38			0.001	0.003	
7/31/2019 14:38					42.43222;-76.49877
7/31/2019 14:39			0.001	0.002	
7/31/2019 14:40	12.5	100.2	0.001	0.003	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/31/2019 14:41			0.001	0.003	42.43221;-76.49877
7/31/2019 14:42			0.001	0.003	
7/31/2019 14:43			0.001	0.003	
7/31/2019 14:44			0.001	0.003	
7/31/2019 14:45	12.5	91.1	0.001	0.003	
7/31/2019 14:46			0.001	0.003	
7/31/2019 14:46					42.43221;-76.4987
7/31/2019 14:47			0.001	0.003	
7/31/2019 14:48			0.001	0.003	
7/31/2019 14:49			0.001	0.003	
7/31/2019 14:50	12.5	74.9	0.001	0.003	
7/31/2019 14:51				0.003	
7/31/2019 14:52			0.001	0.004	
7/31/2019 14:53			0.001	0.004	
7/31/2019 14:54			0.001	0.003	
7/31/2019 14:55	12.5	76.9	0.001	0.004	
7/31/2019 14:56			0.001	0.004	
7/31/2019 14:57			0.001	0.003	
7/31/2019 14:58			0.001	0.003	
7/31/2019 14:59			0.001	0.003	
7/31/2019 15:00	12.5	108.3	0.001	0.004	
7/31/2019 15:01			0.001	0.004	
7/31/2019 15:02			0.001	0.003	
7/31/2019 15:03			0.001	0.013	
7/31/2019 15:04			0.001	0.005	
7/31/2019 15:05	12.5	77.9	0.001	0.003	
7/31/2019 15:06			0.001	0.003	
7/31/2019 15:07			0.001	0.003	
7/31/2019 15:08			0.001	0.004	
7/31/2019 15:09			0.001	0.004	
7/31/2019 15:10	12.5	75.9	0.001	0.004	
7/31/2019 15:11			0.001	0.004	
7/31/2019 15:12			0.001	0.005	
7/31/2019 15:13			0.001	0.01	
7/31/2019 15:14			0.001	0.006	
7/31/2019 15:15	12.5	74.9	0.001	0.005	
7/31/2019 15:16			0.001	0.004	
7/31/2019 15:17			0.001	0.003	
7/31/2019 15:18			0.001	0.003	
7/31/2019 15:19			0.001	0.004	
7/31/2019 15:20	12.5	76.9	0.001	0.003	
7/31/2019 15:21			0.001	0.004	
7/31/2019 15:22			0.001	0.005	
7/31/2019 15:23			0.001	0.004	
7/31/2019 15:24			0.001	0.006	
7/31/2019 15:25	12.5	77.9	0.001	0.004	
7/31/2019 15:26			0.001	0.004	
7/31/2019 15:27			0.001	0.005	
7/31/2019 15:28			0.001	0.005	
7/31/2019 15:29			0.001	0.005	
7/31/2019 15:30	12.5	108.3	0.001	0.005	
7/31/2019 15:31			0.001	0.005	
7/31/2019 15:32			0.001	0.005	
7/31/2019 15:33			0.001	0.006	
7/31/2019 15:34			0.001	0.006	
7/31/2019 15:35	12.5	100.2	0.001	0.006	
7/31/2019 15:36			0.001	0.006	
7/31/2019 15:37			0.001	0.006	
7/31/2019 15:38			0.001	0.005	
7/31/2019 15:39			0.001	0.006	
7/31/2019 15:40	12.5	76.9	0.001	0.006	
7/31/2019 15:41			0.001	0.006	
7/31/2019 15:42			0.001	0.006	
7/31/2019 15:43			0.001	0.006	
7/31/2019 15:44			0.001	0.007	
7/31/2019 15:45	12.5	84	0.001	0.007	
7/31/2019 15:46			0.001	0.007	
7/31/2019 15:47			0.001	0.007	
7/31/2019 15:48			0.001	0.007	
7/31/2019 15:49			0.001	0.006	
7/31/2019 15:50	12.5	75.9	0.001	0.006	
7/31/2019 15:51			0.001	0.006	
7/31/2019 15:52			0.001	0.006	
7/31/2019 15:53			0.001	0.006	
7/31/2019 15:54			0.001	0.007	
7/31/2019 15:55	12.5	75.9	0.001	0.006	
7/31/2019 15:56			0.001	0.006	
7/31/2019 15:57			0.001	0.007	
7/31/2019 15:58			0.001	0.007	
7/31/2019 15:59			0.001	0.006	
7/31/2019 16:00	12.5	75.9	0.001	0.006	
7/31/2019 16:01			0.001	0.007	
7/31/2019 16:02			0.001	0.007	
7/31/2019 16:03			0.001	0.007	
7/31/2019 16:04			0.001	0.007	
7/31/2019 16:05	12.5	99.2	0.001	0.007	
7/31/2019 16:06			0.002	0.007	
7/31/2019 16:07			0.002	0.008	
7/31/2019 16:08			0.002	0.007	
7/31/2019 16:09			0.002	0.008	
7/31/2019 16:10	12.4	94.1	0.002	0.008	
7/31/2019 16:11			0.002	0.008	
7/31/2019 16:12			0.002	0.008	
7/31/2019 16:13			0.002	0.008	
7/31/2019 16:14			0.002	0.008	
7/31/2019 16:15	12.5	99.2	0.002	0.008	
7/31/2019 16:16			0.002	0.008	
7/31/2019 16:17			0.002	0.008	
7/31/2019 16:18			0.002	0.008	
7/31/2019 16:19			0.002	0.008	
7/31/2019 16:20	12.5	99.2	0.002	0.008	
7/31/2019 16:21			0.002	0.008	
7/31/2019 16:22			0.002	0.008	
7/31/2019 16:23			0.002	0.009	
7/31/2019 16:24			0.002	0.009	
7/31/2019 16:25	12.4	99.2	0.002	0.009	
7/31/2019 16:26			0.002	0.009	
7/31/2019 16:27			0.002	0.009	
7/31/2019 16:28			0.002	0.009	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/31/2019 16:29			0.002	0.009	
7/31/2019 16:30	12.4	99.2	0.002	0.009	
7/31/2019 16:31			0.002	0.009	
7/31/2019 16:32			0.002	0.008	
7/31/2019 16:33			0.002	0.008	
7/31/2019 16:34			0.002	0.008	
7/31/2019 16:35	12.4	97.2	0.002	0.008	
7/31/2019 16:36			0.002	0.007	
7/31/2019 16:37			0.002	0.008	
7/31/2019 16:38			0.002	0.016	
7/31/2019 16:39			0.002	0.012	
7/31/2019 16:40	12.4	99.2	0.002	0.01	
7/31/2019 16:41			0.002	0.009	
7/31/2019 16:42			0.002	0.009	
7/31/2019 16:43			0.002	0.009	
7/31/2019 16:44			0.002	0.01	
7/31/2019 16:45	12.4	101.2	0.002	0.009	
7/31/2019 16:46			0.002	0.009	
7/31/2019 16:47			0.002	0.01	
7/31/2019 16:48			0.002	0.01	
7/31/2019 16:49			0.002	0.01	
7/31/2019 16:50	12.4	100.2	0.002	0.01	
7/31/2019 16:51			0.002	0.01	
7/31/2019 16:52			0.002	0.012	
7/31/2019 16:53			0.002	0.011	
7/31/2019 16:54			0.002	0.01	
7/31/2019 16:55	12.4	99.2	0.002	0.01	
7/31/2019 16:56			0.002	0.009	
7/31/2019 16:57			0.002	0.01	
7/31/2019 16:58			0.002	0.01	
7/31/2019 16:59			0.002	0.01	
7/31/2019 17:00	12.4	87	0.003	0.01	
7/31/2019 17:01			0.003	0.011	
7/31/2019 17:02			0.003	0.012	
7/31/2019 17:03			0.003	0.01	
7/31/2019 17:04			0.003	0.011	
7/31/2019 17:05	12.4	98.2	0.003	0.011	
7/31/2019 17:06			0.003	0.011	
7/31/2019 17:07			0.003	0.012	
7/31/2019 17:08			0.003	0.012	
7/31/2019 17:09			0.003	0.011	
7/31/2019 17:10	12.4	99.2	0.003	0.011	
7/31/2019 17:11			0.003	0.013	
7/31/2019 17:12			0.003	0.012	
7/31/2019 17:13			0.003	0.012	
7/31/2019 17:14			0.003	0.012	
7/31/2019 17:15	12.4	89.1	0.003	0.012	
7/31/2019 17:16			0.003	0.011	
7/31/2019 17:17			0.003	0.012	
7/31/2019 17:18			0.003	0.012	
7/31/2019 17:19			0.003	0.014	
7/31/2019 17:20	12.4	98.2	0.003	0.015	
7/31/2019 17:21			0.003	0.012	
7/31/2019 17:22			0.003	0.013	
7/31/2019 17:23			0.003	0.013	
7/31/2019 17:24			0.003	0.013	
7/31/2019 17:25	12.4	126.5	0.003	0.013	
7/31/2019 17:26			0.003	0.013	
7/31/2019 17:27			0.003	0.013	
7/31/2019 17:28			0.003	0.012	
7/31/2019 17:29			0.003	0.012	
7/31/2019 17:30	12.4	100.2	0.003	0.013	
7/31/2019 17:31			0.003	0.014	
7/31/2019 17:32			0.003	0.014	
7/31/2019 17:33			0.003	0.016	
7/31/2019 17:34			0.003	0.014	
7/31/2019 17:35	12.4	89.1	0.003	0.014	
7/31/2019 17:36			0.003	0.014	
7/31/2019 17:37			0.003	0.014	
7/31/2019 17:38			0.004	0.014	
7/31/2019 17:39			0.004	0.013	
7/31/2019 17:40	12.4	115.4	0.004	0.013	
7/31/2019 17:41			0.004	0.014	
7/31/2019 17:42			0.004	0.013	
7/31/2019 17:43			0.004	0.013	
7/31/2019 17:44			0.004	0.014	
7/31/2019 17:45	12.4	101.2	0.004	0.014	
7/31/2019 17:46			0.004	0.014	
7/31/2019 17:47			0.004	0.013	
7/31/2019 17:48			0.004	0.014	
7/31/2019 17:49			0.004	0.014	
7/31/2019 17:50	12.4	128.6	0.004	0.014	
7/31/2019 17:51			0.004	0.014	
7/31/2019 17:52			0.004	0.015	
7/31/2019 17:53			0.004	0.014	
7/31/2019 17:54			0.004	0.015	
7/31/2019 17:55	12.4	100.2	0.004	0.015	
7/31/2019 17:56			0.004	0.015	
7/31/2019 17:57			0.004	0.015	
7/31/2019 17:58			0.004	0.016	
7/31/2019 17:59			0.004	0.018	
7/31/2019 18:00	12.4	97.2	0.004	0.016	
7/31/2019 18:01			0.004	0.021	
7/31/2019 18:02			0.004	0.019	
7/31/2019 18:03			0.004	0.017	
7/31/2019 18:04			0.004	0.016	
7/31/2019 18:05	12.4	100.2	0.004	0.016	
7/31/2019 18:06			0.004	0.016	
7/31/2019 18:07			0.004	0.016	
7/31/2019 18:08			0.004	0.017	
7/31/2019 18:09			0.004	0.016	
7/31/2019 18:10	12.4	101.2	0.005	0.016	
7/31/2019 18:11			0.005	0.015	
7/31/2019 18:12			0.005	0.015	
7/31/2019 18:13			0.005	0.016	
7/31/2019 18:14			0.005	0.016	
7/31/2019 18:15	12.4	97.2	0.005	0.016	
7/31/2019 18:16			0.005	0.019	
7/31/2019 18:17			0.005	0.016	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/31/2019 18:18			0.005	0.016	
7/31/2019 18:19			0.005	0.016	
7/31/2019 18:20	12.4	98.2	0.005	0.016	
7/31/2019 18:21			0.005	0.016	
7/31/2019 18:22			0.005	0.016	
7/31/2019 18:23			0.005	0.017	
7/31/2019 18:24			0.005	0.018	
7/31/2019 18:25	12.4	108.3	0.005	0.017	
7/31/2019 18:26			0.005	0.017	
7/31/2019 18:27			0.005	0.018	
7/31/2019 18:28			0.005	0.017	
7/31/2019 18:29			0.005	0.017	
7/31/2019 18:30	12.4	113.4	0.005	0.017	
7/31/2019 18:31			0.005	0.017	
7/31/2019 18:32			0.005	0.016	
7/31/2019 18:33			0.005	0.017	
7/31/2019 18:34			0.005	0.017	
7/31/2019 18:35	12.3	95.1	0.005	0.016	
7/31/2019 18:36			0.005	0.016	
7/31/2019 18:37			0.005	0.017	
7/31/2019 18:38			0.005	0.017	
7/31/2019 18:39			0.006	0.017	
7/31/2019 18:40	12.3	99.2	0.006	0.017	
7/31/2019 18:41			0.006	0.017	
7/31/2019 18:42			0.006	0.018	
7/31/2019 18:43			0.006	0.018	
7/31/2019 18:44			0.006	0.018	
7/31/2019 18:45	12.3	100.2	0.006	0.017	
7/31/2019 18:46			0.006	0.017	
7/31/2019 18:47			0.006	0.018	
7/31/2019 18:48			0.006	0.018	
7/31/2019 18:49			0.006	0.018	
7/31/2019 18:50	12.3	89.1	0.006	0.017	
7/31/2019 18:51			0.006	0.017	
7/31/2019 18:52			0.006	0.018	
7/31/2019 18:53			0.006	0.018	
7/31/2019 18:54			0.006	0.017	
7/31/2019 18:55	12.3	101.2	0.006	0.019	
7/31/2019 18:56			0.006	0.019	
7/31/2019 18:57			0.006	0.02	
7/31/2019 18:58			0.006	0.018	
7/31/2019 18:59			0.006	0.018	
7/31/2019 19:00	12.3	103.2	0.006	0.017	
7/31/2019 19:01			0.006	0.017	
7/31/2019 19:02			0.006	0.017	
7/31/2019 19:03			0.006	0.017	
7/31/2019 19:04			0.006	0.018	
7/31/2019 19:05	12.3	98.2	0.006	0.018	
7/31/2019 19:06			0.007	0.018	
7/31/2019 19:07			0.007	0.018	
7/31/2019 19:08			0.007	0.018	
7/31/2019 19:09			0.007	0.017	
7/31/2019 19:10	12.3	108.3	0.007	0.018	
7/31/2019 19:11			0.007	0.018	
7/31/2019 19:12			0.007	0.018	
7/31/2019 19:13			0.007	0.018	
7/31/2019 19:14			0.007	0.018	
7/31/2019 19:15	12.3	101.2	0.007	0.02	
7/31/2019 19:16			0.007	0.018	
7/31/2019 19:17			0.007	0.018	
7/31/2019 19:18			0.007	0.018	
7/31/2019 19:19			0.007	0.019	
7/31/2019 19:20	12.3	99.2	0.007	0.017	
7/31/2019 19:21			0.007	0.018	
7/31/2019 19:22			0.007	0.018	
7/31/2019 19:23			0.007	0.018	
7/31/2019 19:24			0.007	0.018	
7/31/2019 19:25	12.3	100.2	0.007	0.018	
7/31/2019 19:26			0.007	0.018	
7/31/2019 19:27			0.007	0.018	
7/31/2019 19:28			0.007	0.021	
7/31/2019 19:29			0.007	0.018	
7/31/2019 19:30	12.3	99.2	0.007	0.018	
7/31/2019 19:31			0.007	0.018	
7/31/2019 19:32			0.007	0.019	
7/31/2019 19:33			0.008	0.018	
7/31/2019 19:34			0.008	0.019	
7/31/2019 19:35	12.3	103.2	0.008	0.019	
7/31/2019 19:36			0.008	0.019	
7/31/2019 19:37			0.008	0.018	
7/31/2019 19:38			0.008	0.018	
7/31/2019 19:39			0.008	0.018	
7/31/2019 19:40	12.3	99.2	0.008	0.018	
7/31/2019 19:41			0.008	0.018	
7/31/2019 19:42			0.008	0.018	
7/31/2019 19:43			0.008	0.018	
7/31/2019 19:44			0.008	0.019	
7/31/2019 19:45	12.3	100.2	0.008	0.018	
7/31/2019 19:46			0.008	0.018	
7/31/2019 19:47			0.008	0.018	
7/31/2019 19:48			0.008	0.018	
7/31/2019 19:49			0.008	0.018	
7/31/2019 19:50	12.3	101.2	0.008	0.018	
7/31/2019 19:51			0.008	0.018	
7/31/2019 19:52			0.008	0.018	
7/31/2019 19:53			0.008	0.018	
7/31/2019 19:54			0.008	0.018	
7/31/2019 19:55	12.3	87	0.008	0.02	
7/31/2019 19:56			0.008	0.018	
7/31/2019 19:57			0.008	0.018	
7/31/2019 19:58			0.008	0.018	
7/31/2019 19:59			0.009	0.018	
7/31/2019 20:00	12.2	99.2	0.009	0.018	
7/31/2019 20:01			0.009	0.019	
7/31/2019 20:02			0.009	0.02	
7/31/2019 20:03			0.009	0.02	
7/31/2019 20:04			0.009	0.023	
7/31/2019 20:05	12.3	103.2	0.009	0.02	
7/31/2019 20:06			0.009	0.019	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/31/2019 20:07			0.009	0.02	
7/31/2019 20:08			0.009	0.021	
7/31/2019 20:09			0.009	0.022	
7/31/2019 20:10	12.2	86	0.009	0.019	
7/31/2019 20:11			0.009	0.018	
7/31/2019 20:12			0.009	0.019	
7/31/2019 20:13			0.009	0.019	
7/31/2019 20:14			0.009	0.018	
7/31/2019 20:15	12.2	103.2	0.009	0.019	
7/31/2019 20:16			0.009	0.019	
7/31/2019 20:17			0.009	0.019	
7/31/2019 20:18			0.009	0.019	
7/31/2019 20:19			0.009	0.02	
7/31/2019 20:20	12.2	103.2	0.009	0.02	
7/31/2019 20:21			0.009	0.02	
7/31/2019 20:22			0.009	0.02	
7/31/2019 20:23			0.009	0.02	
7/31/2019 20:24			0.01	0.02	
7/31/2019 20:25	12.2	105.3	0.01	0.02	
7/31/2019 20:26			0.01	0.02	
7/31/2019 20:27			0.01	0.019	
7/31/2019 20:28			0.01	0.019	
7/31/2019 20:29			0.01	0.02	
7/31/2019 20:30	12.2	102.2	0.01	0.02	
7/31/2019 20:31			0.01	0.02	
7/31/2019 20:32			0.01	0.02	
7/31/2019 20:33			0.01	0.02	
7/31/2019 20:34			0.01	0.02	
7/31/2019 20:35	12.2	100.2	0.01	0.02	
7/31/2019 20:36			0.01	0.02	
7/31/2019 20:37			0.01	0.02	
7/31/2019 20:38			0.01	0.02	
7/31/2019 20:39			0.01	0.02	
7/31/2019 20:40	12.2	107.3	0.01	0.02	
7/31/2019 20:41			0.01	0.02	
7/31/2019 20:42			0.01	0.02	
7/31/2019 20:43			0.01	0.02	
7/31/2019 20:44			0.01	0.02	
7/31/2019 20:45	12.2	105.3	0.01	0.02	
7/31/2019 20:46			0.01	0.021	
7/31/2019 20:47			0.01	0.021	
7/31/2019 20:48			0.011	0.021	
7/31/2019 20:49			0.011	0.021	
7/31/2019 20:50	12.2	83	0.011	0.021	
7/31/2019 20:51			0.011	0.02	
7/31/2019 20:52			0.011	0.021	
7/31/2019 20:53			0.011	0.021	
7/31/2019 20:54			0.011	0.021	
7/31/2019 20:55	12.2	99.2	0.011	0.021	
8/1/2019 12:15	12.7	111.3			
8/1/2019 12:15					42.4316721;-76.5029473
8/1/2019 12:16	12.7	95.1			
8/1/2019 12:18			0	0.042	
8/1/2019 12:19			0	0.038	
8/1/2019 12:20	12.6	77.9	0	0.037	42.43225;-76.4987
8/1/2019 12:21			0	0.037	
8/1/2019 12:22			0	0.037	
8/1/2019 12:23			0	0.037	
8/1/2019 12:24			0	0.037	
8/1/2019 12:25	12.7	77.9	0	0.036	42.43225;-76.4987
8/1/2019 12:26			0	0.036	
8/1/2019 12:27			0	0.036	
8/1/2019 12:28			0	0.037	
8/1/2019 12:29			0	0.037	
8/1/2019 12:30	12.6	75.9	0	0.036	
8/1/2019 12:30					42.43225;-76.4987
8/1/2019 12:31			0	0.037	
8/1/2019 12:32			0	0.037	
8/1/2019 12:33			0.001	0.037	
8/1/2019 12:34			0.001	0.037	
8/1/2019 12:35	12.6	75.9	0.001	0.037	42.43225;-76.4987
8/1/2019 12:36			0.001	0.036	
8/1/2019 12:37			0.002	0.037	
8/1/2019 12:38			0.002	0.037	
8/1/2019 12:39			0.002	0.036	
8/1/2019 12:40	12.7	76.9	0.002	0.037	42.43225;-76.4987
8/1/2019 12:41			0.002	0.036	
8/1/2019 12:42			0.002	0.035	
8/1/2019 12:42	12.6	101.2			
8/1/2019 12:45	12.7	99.2			42.43221;-76.4987
8/1/2019 12:50	12.7	104.3			42.43216;-76.49868
8/1/2019 12:55	12.7	89.1			42.43221;-76.49875
8/1/2019 13:00	12.7	98.2			42.43225;-76.49868
8/1/2019 13:05	12.7	95.1			
8/1/2019 13:05					42.43225;-76.49866
8/1/2019 13:10	12.7	104.3			42.43221;-76.49873
8/1/2019 13:15	12.7	97.2			42.43224;-76.4987
8/1/2019 13:20	12.7	90.1			
8/1/2019 13:20					42.43227;-76.49868
8/1/2019 13:25	12.6	96.2			
8/1/2019 13:25					42.43227;-76.4987
8/1/2019 13:30	12.7	93.1			42.43227;-76.49873
8/1/2019 13:35	12.7	97.2			42.43225;-76.4987
8/1/2019 13:40	12.6	99.2			42.43228;-76.49868
8/1/2019 13:42	12.6	149.8			
8/1/2019 13:45	12.7	77.9			42.43225;-76.49868
8/1/2019 13:50	12.6	75.9			42.43225;-76.49868
8/1/2019 13:55	12.6	77.9			42.43225;-76.49868
8/1/2019 14:00	12.6	76.9			42.43225;-76.49868
8/1/2019 14:05	12.6	129.6			
8/1/2019 14:05					42.43225;-76.49868
8/1/2019 14:05	12.6	132.6			
8/1/2019 14:10	12.6	90.1			42.43217;-76.49864
8/1/2019 14:15	12.6	89.1			
8/1/2019 14:15					42.43224;-76.49866
8/1/2019 14:20	12.6	99.2			42.43234;-76.49875
8/1/2019 14:25	12.6	96.2			42.43231;-76.49877
8/1/2019 14:30	12.6	88.1			
8/1/2019 14:30					42.43225;-76.4987

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
8/1/2019 14:35	12.6	91.1			42.43227;-76.49873
8/1/2019 14:40	12.6	91.1			42.43225;-76.49875
8/1/2019 14:45	12.6	89.1			42.43224;-76.49875
8/1/2019 14:50	12.6	90.1			42.43222;-76.4987
8/1/2019 14:55	12.6	100.2			42.43224;-76.49864
8/1/2019 15:00	12.6	89.1			42.43221;-76.49866
8/1/2019 15:05	12.6	89.1			42.43225;-76.49868
8/1/2019 15:10	12.6	104.3			42.43221;-76.4986
8/1/2019 15:15	12.6	89.1			42.43221;-76.4986
8/1/2019 15:20	12.6	90.1			42.43229;-76.49868
8/1/2019 15:25	12.6	99.2			42.43211;-76.49854
8/1/2019 15:30	12.5	89.1			42.43224;-76.49864
8/1/2019 15:35	12.6	90.1			42.4323;-76.4987
8/1/2019 15:40	12.5	97.2			42.43225;-76.49868
8/1/2019 15:45	12.5	90.1			42.43225;-76.49864
8/1/2019 15:50	12.5	96.2			42.43224;-76.49862
8/1/2019 15:55	12.5	89.1			42.43228;-76.49868
8/1/2019 16:00	12.5	89.1			42.43225;-76.49866
8/1/2019 16:05	12.5	97.2			42.4323;-76.49864
8/1/2019 16:10	12.5	90.1			42.43232;-76.49866
8/1/2019 16:15	12.5	88.1			
8/1/2019 16:15					42.43206;-76.49862
8/1/2019 16:20	12.5	97.2			42.43208;-76.49854
8/1/2019 16:25	12.3	91.1			42.43203;-76.49854
8/1/2019 16:30	12.3	100.2			
8/1/2019 16:30					42.43216;-76.4986
8/1/2019 16:35	12.2	91.1			42.43217;-76.4986
8/1/2019 16:40	12.5	98.2			42.43198;-76.49847
8/1/2019 16:45	12.5	88.1			
8/1/2019 16:45					42.43213;-76.49862
8/1/2019 16:50	12.5	92.1			42.43221;-76.49866
8/1/2019 16:55	12.5	97.2			42.43217;-76.4986
8/1/2019 17:00	12.5	95.1			
8/1/2019 17:00					42.43217;-76.49862
8/1/2019 17:05	12.5	96.2			42.43216;-76.49868
8/1/2019 17:10	12.5	96.2			42.43231;-76.49879
8/1/2019 17:15	12.5	90.1			
8/1/2019 17:15					42.43221;-76.49864
8/1/2019 17:20	12.5	95.1			42.43219;-76.4987
8/1/2019 17:25	12.5	100.2			42.43218;-76.49873
8/1/2019 17:30	12.5	89.1			
8/1/2019 17:30					42.43224;-76.49873
8/1/2019 17:35	12.5	88.1			42.43215;-76.4987
8/1/2019 17:40	12.5	103.2			42.43208;-76.49873
8/1/2019 17:45	12.5	89.1			
8/1/2019 17:45					42.43217;-76.49868
8/1/2019 17:50	12.5	94.1			42.43218;-76.49868
8/1/2019 17:55	12.4	90.1			42.43214;-76.4987
8/1/2019 18:00	12.5	92.1			
8/1/2019 18:00					42.43224;-76.49868
8/1/2019 18:05	12.4	93.1			42.4319;-76.49879
8/1/2019 18:10	12.4	91.1			42.4321;-76.49866
8/1/2019 18:15	12.4	103.2			
8/1/2019 18:15					42.43221;-76.49862
8/1/2019 18:20	12.4	92.1			42.43216;-76.49866
8/1/2019 18:25	12.4	97.2			42.43218;-76.49866
8/1/2019 18:30	12.4	92.1			42.43218;-76.49862
8/1/2019 18:35	12.4	93.1			42.43217;-76.49864
8/1/2019 18:40	12.4	91.1			42.43221;-76.49864
8/1/2019 18:45	12.4	90.1			42.43221;-76.49866
8/1/2019 18:50	12.4	102.2			42.43228;-76.4987
8/1/2019 18:55	12.4	90.1			42.43222;-76.49866
8/1/2019 19:00	12.4	90.1			42.43224;-76.49866
8/1/2019 19:05	12.4	89.1			42.43225;-76.49868
8/1/2019 19:10	12.4	91.1			42.43221;-76.49866
8/1/2019 19:15	12.4	88.1			42.43225;-76.49862
8/1/2019 19:20	12.4	105.3			42.43225;-76.49857
8/1/2019 19:25	12.4	91.1			42.4323;-76.49857
8/1/2019 19:30	12.4	99.2			42.43218;-76.49857
8/1/2019 19:35	12.4	91.1			42.43229;-76.49868
8/1/2019 19:40	12.4	89.1			42.43227;-76.49864
8/1/2019 19:45	12.4	94.1			42.43227;-76.49862
8/1/2019 19:50	12.4	91.1			42.43224;-76.4986
8/1/2019 19:55	12.4	90.1			42.43225;-76.49866
8/1/2019 20:00	12.4	102.2			42.43228;-76.4987
8/1/2019 20:05	12.3	97.2			42.43221;-76.49866
8/1/2019 20:10	12.4	92.1			42.43219;-76.49866
9/4/2019 17:01	12.6	127.5			
9/4/2019 17:02	12.5	125.5			
9/4/2019 17:04			0	0.005	
9/4/2019 17:05	12.5	77.9	0	0.006	
9/4/2019 17:06			0	0.005	
9/4/2019 17:07			0	0.005	
9/4/2019 17:08			0	0.005	
9/4/2019 17:09			0	0.004	
9/4/2019 17:10	12.5	75.9	0	0.004	
9/4/2019 17:11			0	0.005	
9/4/2019 17:12			0	0.005	
9/4/2019 17:13			0	0.004	
9/4/2019 17:14			0	0.005	
9/4/2019 17:15	12.5	75.9	0	0.004	
9/4/2019 17:16			0	0.002	
9/4/2019 17:17			0	0.002	
9/4/2019 17:18			0	0.003	
9/4/2019 17:19			0	0.002	
9/4/2019 17:20	12.5	76.9	0	0.003	
9/4/2019 17:21			0	0.002	
9/4/2019 17:22			0	0.003	
9/4/2019 17:23			0	0.001	
9/4/2019 17:24			0	0.001	
9/4/2019 17:25	12.5	77.9	0	0.001	
9/4/2019 17:26			0	0.001	
9/4/2019 17:27			0	0.001	
9/4/2019 17:28			0	0.002	
9/4/2019 17:29			0	0.001	
9/4/2019 17:30	12.5	75.9	0	0.002	
9/4/2019 17:31			0	0.002	
9/4/2019 17:32			0	0.001	
9/4/2019 17:33			0	0.001	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
9/4/2019 17:34			0	0.001	
9/4/2019 17:35	12.5	74.9	0	0.001	
9/4/2019 17:36			0	0.001	
9/4/2019 17:37			0	0.001	
9/4/2019 17:38			0	0	
9/4/2019 17:39			0	0	
9/4/2019 17:40	12.5	77.9	0	0	
9/4/2019 17:41			0	0	
9/4/2019 17:42			0	0	
9/4/2019 17:43			0	0	
9/4/2019 17:44			0	0	
9/4/2019 17:45	12.5	73.9	0	0	
9/4/2019 17:46			0	0	
9/4/2019 17:47			0	0	
9/4/2019 17:48			0	0	
9/4/2019 17:49			0	0	
9/4/2019 17:50	12.5	77.9	0	0	
9/4/2019 17:51			0	0	
9/4/2019 17:52			0	0	
9/4/2019 17:53			0	0	
9/4/2019 17:54			0	0	
9/4/2019 17:55	12.5	76.9	0	0	
9/4/2019 17:56			0	0	
9/4/2019 17:57			0	0	
9/4/2019 17:58			0	0	
9/4/2019 17:59			0	0	
9/4/2019 18:00	12.5	74.9	0	0	
9/4/2019 18:01			0	0	
9/4/2019 18:02			0	0	
9/4/2019 18:03			0	0	
9/4/2019 18:04			0	0	
9/4/2019 18:05	12.5	75.9	0	-0.002	
9/4/2019 18:06			0	0.002	
9/4/2019 18:07			0	0	
9/4/2019 18:08			0	-0.003	
9/4/2019 18:09			0	-0.004	
9/4/2019 18:10	12.5	75.9	0	-0.004	
9/4/2019 18:11			0	-0.002	
9/4/2019 18:12			0	-0.002	
9/4/2019 18:13			0	-0.001	
9/4/2019 18:14			0	-0.004	
9/4/2019 18:15	12.5	76.9	0	-0.001	
9/4/2019 18:16			0	-0.002	
9/4/2019 18:17			0	-0.001	
9/4/2019 18:18			0	-0.001	
9/4/2019 18:19			0	0	
9/4/2019 18:20	12.5	75.9	0	-0.006	
9/4/2019 18:21			0	-0.005	
9/4/2019 18:22			0	-0.006	
9/4/2019 18:23			0	-0.002	
9/4/2019 18:24			0	-0.001	
9/4/2019 18:25	12.5	76.9	0	0	
9/4/2019 18:26			0	0	
9/4/2019 18:27			0	-0.006	
9/4/2019 18:28			0	-0.001	
9/4/2019 18:29			0	-0.001	
9/4/2019 18:30	12.5	75.9	0	-0.002	
9/4/2019 18:31			0	-0.002	
9/4/2019 18:32			0	0	
9/4/2019 18:33			0	-0.001	
9/4/2019 18:34			0	0.001	
9/4/2019 18:35	12.5	77.9	0	0	
9/4/2019 18:36			0	0	
9/4/2019 18:37			0	0	
9/4/2019 18:38			0	-0.002	
9/4/2019 18:39			0	-0.004	
9/4/2019 18:40	12.5	76.9	0	-0.004	
9/4/2019 18:41			0	-0.001	
9/4/2019 18:42			0	0	
9/4/2019 18:43			0	0	
9/4/2019 18:44			0	0	
9/4/2019 18:45	12.5	77.9	0	0	
9/4/2019 18:46			0	0	
9/4/2019 18:47			0	0	
9/4/2019 18:48			0	0	
9/4/2019 18:49			0	0.001	
9/4/2019 18:50	12.5	77.9	0	0	
9/4/2019 18:51			0	0	
9/4/2019 18:52			0	0	
9/4/2019 18:53			0	0	
9/4/2019 18:54			0	0	
9/4/2019 18:55	12.5	75.9	0	0	
9/4/2019 18:56			0	0	
9/4/2019 18:57			0	0	
9/4/2019 18:58			0	0	
9/4/2019 18:59			0	0	
9/4/2019 19:00	12.5	79	0	0	
9/4/2019 19:01			0	0	
9/4/2019 19:02			0	0	
9/4/2019 19:03			0	0	
9/4/2019 19:04			0	0	
9/4/2019 19:05	12.5	76.9	0	0	
9/4/2019 19:06			0	0.001	
9/4/2019 19:07			0	0.005	
9/4/2019 19:08			0	0.004	
9/4/2019 19:09			0	0.001	
9/4/2019 19:10	12.5	75.9	0	0.001	
9/4/2019 19:11			0	0	
9/4/2019 19:12			0	0	
9/4/2019 19:13			0	0	
9/4/2019 19:14			0	0.001	
9/4/2019 19:15	12.5	79	0	0.001	
9/4/2019 19:16			0	0	
9/4/2019 19:17			0	0	
9/4/2019 19:18			0	0.001	
9/4/2019 19:19			0	0.001	
9/4/2019 19:20	12.5	77.9	0	0	
9/4/2019 19:21			0	0.008	
9/4/2019 19:22			0	0.009	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
9/4/2019 19:23			0	0.005	
9/4/2019 19:24			0	0.003	
9/4/2019 19:25	12.5	75.9	0	0.002	
9/4/2019 19:26			0	0.001	
9/4/2019 19:27			0	0.001	
9/4/2019 19:28			0	0.001	
9/4/2019 19:29			0	0.001	
9/4/2019 19:30	12.5	77.9	0	0.001	
9/4/2019 19:31			0	0.001	
9/4/2019 19:32			0	0.002	
9/4/2019 19:33			0	0.002	
9/4/2019 19:34			0	0.003	
9/4/2019 19:35	12.5	79	0	0.001	
9/4/2019 19:36			0	0.001	
9/4/2019 19:37			0	0.001	
9/4/2019 19:38			0	0.001	
9/4/2019 19:39			0	0.002	
9/4/2019 19:40	12.5	76.9	0	0.001	
9/4/2019 19:41			0	0.001	
9/4/2019 19:42			0	0.002	
9/4/2019 19:43			0	0.002	
9/4/2019 19:44			0	0.002	
9/4/2019 19:45	12.5	76.9	0	0.002	
9/4/2019 19:46			0	0.003	
9/4/2019 19:47			0	0.002	
9/4/2019 19:48			0	0.009	
9/4/2019 19:49			0	0.001	
9/4/2019 19:50	12.5	76.9	0	0	
9/4/2019 19:51			0	0	
9/4/2019 19:52			0	0.001	
9/4/2019 19:53			0	0.001	
9/4/2019 19:54			0	0.002	
9/4/2019 19:55	12.5	76.9	0	0.002	
9/4/2019 19:56			0	0.002	
9/4/2019 19:57			0	0.011	
9/4/2019 19:58			0	0.005	
9/4/2019 19:59			0	0.006	
9/4/2019 20:00	12.5	75.9	0	0.002	
9/4/2019 20:01			0	0.002	
9/4/2019 20:02			0	0.002	
9/4/2019 20:03			0	0.002	
9/4/2019 20:04			0	0.001	
9/4/2019 20:05	12.5	76.9	0	0.002	
9/4/2019 20:06			0	0.003	
9/4/2019 20:07			0	0.004	
9/4/2019 20:08			0	0	
9/4/2019 20:09			0	0.002	
9/4/2019 20:10	12.5	75.9	0	0.003	
9/4/2019 20:11			0	0.003	
9/4/2019 20:12			0	0.004	
9/4/2019 20:13			0	0.003	
9/4/2019 20:14			0	0.002	
9/4/2019 20:15	12.5	76.9	0	0.003	
9/4/2019 20:16			0	0.004	
9/4/2019 20:17			0	0.003	
9/4/2019 20:18			0	0.002	
9/4/2019 20:19			0	0.003	
9/4/2019 20:20	12.5	79	0	0.003	
9/4/2019 20:21			0	0.003	
9/4/2019 20:22			0	0.003	
9/4/2019 20:23			0	0.004	
9/4/2019 20:24			0	0.002	
9/4/2019 20:25	12.5	79	0	0.001	
9/4/2019 20:26			0	0	
9/4/2019 20:27			0.001	0.009	
9/4/2019 20:28			0.001	0.004	
9/4/2019 20:29			0.001	0.005	
9/4/2019 20:30	12.5	76.9	0.001	0.004	
9/4/2019 20:31			0.001	0.003	
9/4/2019 20:32			0.001	0.004	
9/4/2019 20:33			0.001	0.005	
9/4/2019 20:34			0.001	0.004	
9/4/2019 20:35	12.4	77.9	0.001	0.004	
9/4/2019 20:36			0.001	0.004	
9/4/2019 20:37			0.001	0.005	
9/4/2019 20:38			0.001	0.005	
9/4/2019 20:39			0.001	0.01	
9/4/2019 20:40	12.5	77.9	0.001	0.01	
9/4/2019 20:41			0.001	0.004	
9/4/2019 20:42			0.001	0.004	
9/4/2019 20:43			0.001	0.003	
9/4/2019 20:44			0.001	0.003	
9/4/2019 20:45	12.5	75.9	0.001	0.005	
9/4/2019 20:46			0.001	0.011	
9/4/2019 20:47			0.001	0.004	
9/4/2019 20:48			0.001	0.005	
9/4/2019 20:49			0.001	0.005	
9/4/2019 20:50	12.5	76.9	0.001	0.004	
9/4/2019 20:51			0.001	0.004	
9/4/2019 20:52			0.001	0.003	
9/4/2019 20:53			0.001	0.002	
9/4/2019 20:54			0.001	0.001	
9/4/2019 20:55	12.5	77.9	0.001	0.002	
9/4/2019 20:56			0.001	0.001	
9/4/2019 20:57			0.001	0.011	
9/4/2019 20:58			0.001	0.013	
9/4/2019 20:59			0.001	0.006	
9/4/2019 21:00	12.5	74.9	0.001	0.004	
9/4/2019 21:01			0.001	0.004	
9/4/2019 21:02			0.001	0.003	
9/4/2019 21:03			0.001	0.002	
9/5/2019 15:30	12.6	130.6			
9/5/2019 15:33			0	0.059	
9/5/2019 15:34			0	0.019	
9/5/2019 15:35	12.5	97.2	0	0.018	
9/5/2019 15:36			0	0.06	
9/5/2019 15:37			0	0.033	
9/5/2019 15:38			0	0.048	
9/5/2019 15:39			0	0.054	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
9/5/2019 15:40	12.5	96.2	0	0.047	
9/5/2019 15:41			0	0.044	
9/5/2019 15:42			0	0.039	
9/5/2019 15:43			0	0.026	
9/5/2019 15:44			0	0.021	
9/5/2019 15:45	12.5	106.3	0	0.02	
9/5/2019 15:46			0	0.019	
9/5/2019 15:47			0	0.017	
9/5/2019 15:48			0.001	0.018	
9/5/2019 15:49			0.001	0.018	
9/5/2019 15:50	12.5	94.1	0.001	0.06	
9/5/2019 15:51			0.002	0.177	
9/5/2019 15:52			0.002	0.027	
9/5/2019 15:53			0.002	0.017	
9/5/2019 15:54			0.002	0.017	
9/5/2019 15:55	12.5	107.3	0.002	0.018	
9/5/2019 15:56			0.002	0.017	
9/5/2019 15:57			0.002	0.017	
9/5/2019 15:58			0.002	0.044	
9/5/2019 15:59			0.002	0.134	
9/5/2019 16:00	12.4	90.1	0.002	0.037	
9/5/2019 16:01			0.002	0.035	
9/5/2019 16:02			0.002	0.036	
9/5/2019 16:03			0.003	0.038	
9/5/2019 16:04			0.003	0.041	
9/5/2019 16:05	12.4	90.1	0.003	0.043	
9/5/2019 16:06			0.003	0.044	
9/5/2019 16:07			0.003	0.037	
9/5/2019 16:08			0.003	0.044	
9/5/2019 16:09			0.003	0.186	
9/5/2019 16:10	12.4	90.1	0.004	0.085	
9/5/2019 16:11			0.004	0.075	
9/5/2019 16:12			0.004	0.027	
9/5/2019 16:13			0.004	0.051	
9/5/2019 16:14			0.004	0.042	
9/5/2019 16:15	12.4	91.1	0.004	0.042	
9/5/2019 16:16			0.004	0.042	
9/5/2019 16:17			0.004	0.04	
9/5/2019 16:18			0.004	0.036	
9/5/2019 16:19			0.004	0.027	
9/5/2019 16:20	12.3	98.2	0.004	0.028	
9/5/2019 16:21			0.004	0.027	
9/5/2019 16:22			0.004	0.026	
9/5/2019 16:23			0.005	0.024	
9/5/2019 16:24			0.005	0.026	
9/5/2019 16:25	12.4	98.2	0.005	0.062	
9/5/2019 16:26			0.005	0.035	
9/5/2019 16:27			0.005	0.023	
9/5/2019 16:28			0.005	0.023	
9/5/2019 16:29			0.005	0.023	
9/5/2019 16:30	12.3	92.1	0.005	0.022	
9/5/2019 16:31			0.005	0.027	
9/5/2019 16:32			0.005	0.022	
9/5/2019 16:33			0.005	0.021	
9/5/2019 16:34			0.005	0.02	
9/5/2019 16:35	12.4	90.1	0.005	0.021	
9/5/2019 16:36			0.005	0.02	
9/5/2019 16:37			0.005	0.021	
9/5/2019 16:38			0.005	0.02	
9/5/2019 16:39			0.005	0.022	
9/5/2019 16:40	12.4	97.2	0.005	0.02	
9/5/2019 16:41			0.005	0.02	
9/5/2019 16:42			0.006	0.02	
9/5/2019 16:43			0.006	0.021	
9/5/2019 16:44			0.006	0.034	
9/5/2019 16:45	12.4	98.2	0.006	0.035	
9/5/2019 16:46			0.006	0.023	
9/5/2019 16:47			0.006	0.021	
9/5/2019 16:48			0.006	0.022	
9/5/2019 16:49			0.006	0.021	
9/5/2019 16:50	12.3	90.1	0.006	0.021	
9/5/2019 16:51			0.006	0.02	
9/5/2019 16:52			0.006	0.019	
9/5/2019 16:53			0.006	0.02	
9/5/2019 16:54			0.006	0.02	
9/5/2019 16:55	12.3	100.2	0.006	0.019	
9/5/2019 16:56			0.006	0.019	
9/5/2019 16:57			0.006	0.019	
9/5/2019 16:58			0.006	0.018	
9/5/2019 16:59			0.006	0.019	
9/5/2019 17:00	12.4	98.2	0.006	0.018	
9/5/2019 17:01			0.006	0.019	
9/5/2019 17:02			0.006	0.019	
9/5/2019 17:03			0.006	0.018	
9/5/2019 17:04			0.006	0.019	
9/5/2019 17:05	12.3	98.2	0.007	0.019	
9/5/2019 17:06			0.007	0.018	
9/5/2019 17:07			0.007	0.018	
9/5/2019 17:08			0.007	0.018	
9/5/2019 17:09			0.007	0.018	
9/5/2019 17:10	12.3	98.2	0.007	0.021	
9/5/2019 17:11			0.007	0.021	
9/5/2019 17:12			0.007	0.018	
9/5/2019 17:13			0.007	0.018	
9/5/2019 17:14			0.007	0.018	
9/5/2019 17:15	12.3	99.2	0.007	0.018	
9/5/2019 17:16			0.007	0.047	
9/5/2019 17:17			0.007	0.021	
9/5/2019 17:18			0.007	0.025	
9/5/2019 17:19			0.007	0.029	
9/5/2019 17:20	12.3	97.2	0.007	0.033	
9/5/2019 17:21			0.007	0.036	
9/5/2019 17:22			0.007	0.035	
9/5/2019 17:23			0.007	0.03	
9/5/2019 17:24			0.008	0.03	
9/5/2019 17:25	12.3	118.4	0.008	0.027	
9/5/2019 17:26			0.008	0.029	
9/5/2019 17:27			0.008	0.025	
9/5/2019 17:28			0.008	0.03	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
9/5/2019 17:29			0.008	0.027	
9/5/2019 17:30	12.3	91.1	0.008	0.027	
9/5/2019 17:31			0.008	0.028	
9/5/2019 17:32			0.008	0.027	
9/5/2019 17:33			0.008	0.026	
9/5/2019 17:34			0.008	0.024	
9/5/2019 17:35	12.3	92.1	0.008	0.024	
9/5/2019 17:36			0.008	0.023	
9/5/2019 17:37			0.008	0.023	
9/5/2019 17:38			0.008	0.022	
9/5/2019 17:39			0.008	0.024	
9/5/2019 17:40	12.3	89.1	0.008	0.022	
9/5/2019 17:41			0.008	0.022	
9/5/2019 17:42			0.008	0.026	
9/5/2019 17:43			0.009	0.023	
9/5/2019 17:44			0.009	0.022	
9/5/2019 17:45	12.3	91.1	0.009	0.023	
9/5/2019 17:46			0.009	0.023	
9/5/2019 17:47			0.009	0.023	
9/5/2019 17:48			0.009	0.023	
9/5/2019 17:49			0.009	0.022	
9/5/2019 17:50	12.3	90.1	0.009	0.022	
9/5/2019 17:51			0.009	0.022	
9/5/2019 17:52			0.009	0.022	
9/5/2019 17:53			0.009	0.023	
9/5/2019 17:54			0.009	0.024	
9/5/2019 17:55	12.3	99.2	0.009	0.023	
9/5/2019 17:56			0.009	0.023	
9/5/2019 17:57			0.009	0.025	
9/5/2019 17:58			0.009	0.023	
9/5/2019 17:59			0.009	0.024	
9/5/2019 18:00	12.3	92.1	0.009	0.022	
9/5/2019 18:01			0.01	0.102	
9/5/2019 18:02			0.01	0.07	
9/5/2019 18:03			0.01	0.056	
9/5/2019 18:04			0.01	0.036	
9/5/2019 18:05	12.2	100.2	0.01	0.035	
9/5/2019 18:06			0.01	0.034	
9/5/2019 18:07			0.01	0.041	
9/5/2019 18:08			0.01	0.148	
9/5/2019 18:09			0.011	0.052	
9/5/2019 18:10	12.2	97.2	0.011	0.051	
9/5/2019 18:11			0.011	0.041	
9/5/2019 18:12			0.011	0.051	
9/5/2019 18:13			0.011	0.044	
9/5/2019 18:14			0.011	0.038	
9/5/2019 18:15	12.3	92.1	0.011	0.039	
9/5/2019 18:16			0.011	0.046	
9/5/2019 18:17			0.011	0.045	
9/5/2019 18:18			0.011	0.035	
9/5/2019 18:19			0.011	0.042	
9/5/2019 18:20	12.2	103.2	0.012	0.039	
9/5/2019 18:21			0.012	0.039	
9/5/2019 18:22			0.012	0.038	
9/5/2019 18:23			0.012	0.038	
9/5/2019 18:24			0.012	0.038	
9/5/2019 18:25	12.2	91.1	0.012	0.037	
9/5/2019 18:26			0.012	0.037	
9/5/2019 18:27			0.012	0.046	
9/5/2019 18:28			0.012	0.046	
9/5/2019 18:29			0.012	0.04	
9/5/2019 18:30	12.2	100.2	0.012	0.038	
9/5/2019 18:31			0.012	0.041	
9/5/2019 18:32			0.012	0.036	
9/5/2019 18:33			0.013	0.037	
9/5/2019 18:34			0.013	0.038	
9/5/2019 18:35	12.2	100.2	0.013	0.035	
9/5/2019 18:36			0.013	0.034	
9/5/2019 18:37			0.013	0.033	
9/5/2019 18:38			0.013	0.032	
9/5/2019 18:39			0.013	0.034	
9/5/2019 18:40	12.2	112.4	0.013	0.055	
9/5/2019 18:41			0.013	0.043	
9/5/2019 18:42			0.013	0.034	
9/5/2019 18:43			0.013	0.033	
9/5/2019 18:44			0.013	0.032	
9/5/2019 18:45	12.2	92.1	0.013	0.031	
9/5/2019 18:46			0.014	0.032	
9/5/2019 18:47			0.014	0.029	
9/5/2019 18:48			0.014	0.029	
9/5/2019 18:49			0.014	0.03	
9/5/2019 18:50	12.2	98.2	0.015	0.371	
9/5/2019 18:51			0.015	0.083	
9/5/2019 18:52			0.015	0.135	
9/5/2019 18:53			0.015	0.152	
9/5/2019 18:54			0.016	0.124	
9/5/2019 18:55	12.2	93.1	0.016	0.129	
9/5/2019 18:56			0.016	0.111	
9/5/2019 18:57			0.016	0.097	
9/5/2019 18:58			0.016	0.1	
9/5/2019 18:59			0.017	0.174	
9/5/2019 19:00	12.2	119.4	0.017	0.085	
9/5/2019 19:01			0.017	0.077	
9/5/2019 19:02			0.017	0.088	
9/5/2019 19:03			0.017	0.081	
9/5/2019 19:04			0.018	0.084	
9/5/2019 19:05	12.2	95.1	0.018	0.084	
9/5/2019 19:06			0.018	0.083	
9/5/2019 19:07			0.018	0.082	
9/5/2019 19:08			0.018	0.074	
9/5/2019 19:09			0.018	0.06	
9/5/2019 19:10	12.2	91.1	0.019	0.055	
9/5/2019 19:11			0.019	0.054	
9/5/2019 19:12			0.019	0.049	
9/5/2019 19:13			0.019	0.052	
9/5/2019 19:14			0.019	0.111	
9/5/2019 19:15	12.2	84	0.019	0.046	
9/5/2019 19:16			0.019	0.053	
9/5/2019 19:17			0.019	0.047	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
9/5/2019 19:18			0.02	0.05	
9/5/2019 19:19			0.02	0.047	
9/5/2019 19:20	12.2	99.2	0.02	0.046	
9/5/2019 19:21			0.02	0.042	
9/5/2019 19:22			0.02	0.042	
9/5/2019 19:23			0.02	0.042	
9/5/2019 19:24			0.02	0.04	
9/5/2019 19:25	12.2	101.2	0.02	0.038	
9/5/2019 19:26			0.02	0.036	
9/5/2019 19:27			0.02	0.035	
9/5/2019 19:28			0.02	0.035	
9/5/2019 19:29			0.02	0.036	
9/5/2019 19:30	12.2	100.2	0.021	0.039	
9/5/2019 19:31			0.021	0.036	
9/5/2019 19:32			0.021	0.036	
9/5/2019 19:33			0.021	0.033	
9/5/2019 19:34			0.021	0.033	
9/5/2019 19:35	12.2	94.1	0.021	0.032	
9/5/2019 19:36			0.021	0.033	
9/5/2019 19:37			0.021	0.035	
9/5/2019 19:38			0.021	0.034	
9/5/2019 19:39			0.021	0.033	
9/5/2019 19:40	12.2	93.1	0.021	0.033	
9/5/2019 19:41			0.021	0.032	
9/5/2019 19:42			0.021	0.037	
9/5/2019 19:43			0.021	0.032	
9/5/2019 19:44			0.022	0.032	
9/5/2019 19:45	12.2	100.2	0.022	0.032	
9/5/2019 19:46			0.022	0.031	
9/5/2019 19:47			0.022	0.03	
9/5/2019 19:48			0.022	0.03	
9/5/2019 19:49			0.022	0.029	
9/5/2019 19:50	12.2	102.2	0.022	0.03	
9/5/2019 19:51			0.022	0.03	
9/5/2019 19:52			0.022	0.03	
9/5/2019 19:53			0.022	0.031	
9/5/2019 19:54			0.022	0.029	
9/5/2019 19:55	12.2	100.2	0.022	0.029	
9/5/2019 19:56			0.022	0.03	
9/5/2019 19:57			0.022	0.029	
9/5/2019 19:58			0.022	0.029	
9/5/2019 19:59			0.022	0.029	
9/5/2019 20:00	12.2	103.2	0.023	0.029	
9/5/2019 20:01			0.023	0.029	
9/5/2019 20:02			0.023	0.03	
9/5/2019 20:03			0.023	0.029	
9/5/2019 20:04			0.023	0.029	
9/5/2019 20:05	12.2	100.2	0.023	0.029	
9/5/2019 20:06			0.023	0.03	
9/5/2019 20:07			0.023	0.029	
9/5/2019 20:08			0.023	0.028	
9/5/2019 20:09			0.023	0.028	
9/5/2019 20:10	12.2	100.2	0.023	0.028	
9/5/2019 20:11			0.023	0.028	
9/5/2019 20:12			0.023	0.028	
9/5/2019 20:13			0.023	0.028	
9/5/2019 20:14			0.023	0.028	
9/5/2019 20:15	12.1	126.5	0.023	0.028	
9/5/2019 20:16			0.023	0.029	
9/5/2019 20:17			0.024	0.028	
9/5/2019 20:18			0.024	0.028	
9/5/2019 20:19			0.024	0.028	
9/5/2019 20:20	12.2	99.2	0.024	0.028	
9/5/2019 20:21			0.024	0.046	
9/5/2019 20:22			0.024	0.039	
9/5/2019 20:23			0.024	0.036	
9/5/2019 20:24			0.024	0.039	
9/5/2019 20:25	12.2	98.2	0.024	0.038	
9/5/2019 20:26			0.024	0.038	
9/5/2019 20:27			0.024	0.036	
9/5/2019 20:28			0.024	0.035	
9/5/2019 20:29			0.024	0.035	
9/5/2019 20:30	12.2	95.1	0.025	0.037	
9/5/2019 20:31			0.025	0.035	
9/5/2019 20:32			0.025	0.033	
9/5/2019 20:33			0.025	0.033	
9/5/2019 20:34			0.025	0.033	
9/5/2019 20:35	12.2	98.2	0.025	0.034	
9/5/2019 20:36			0.025	0.033	
9/5/2019 20:37			0.025	0.17	
9/5/2019 20:38			0.025	0.057	
9/5/2019 20:39			0.025	0.047	
9/5/2019 20:40	12.2	99.2	0.026	0.041	
9/5/2019 20:41			0.026	0.054	
9/5/2019 20:42			0.026	0.106	
9/5/2019 20:43			0.026	0.114	
9/5/2019 20:44			0.026	0.066	
9/11/2019 10:15	12.6	132.6			
9/11/2019 10:20	12.5	90.1	0		
9/11/2019 10:21			0	0.034	
9/11/2019 10:22			0	0.035	
9/11/2019 10:23			0	0.035	
9/11/2019 10:24			0	0.033	
9/11/2019 10:25	12.5	108.3	0	0.033	
9/11/2019 10:26			0	0.034	
9/11/2019 10:27			0	0.033	
9/11/2019 10:28			0	0.032	
9/11/2019 10:29			0	0.036	
9/11/2019 10:30	12.5	101.2	0	0.031	
9/11/2019 10:31			0	0.031	
9/11/2019 10:32			0	0.031	
9/11/2019 10:33			0	0.031	
9/11/2019 10:34			0	0.032	
9/11/2019 10:35	12.5	90.1	0.001	0.031	
9/11/2019 10:36			0.001	0.029	
9/11/2019 10:37			0.001	0.031	
9/11/2019 10:38			0.001	0.03	
9/11/2019 10:39			0.001	0.029	
9/11/2019 10:40	12.5	89.1	0.001	0.03	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
9/11/2019 10:41			0.001	0.03	
9/11/2019 10:42			0.001	0.029	
9/11/2019 10:43			0.002	0.029	
9/11/2019 10:44			0.002	0.029	
9/11/2019 10:45	12.5	91.1	0.002	0.031	42.43225;-76.49709
9/11/2019 10:46			0.002	0.027	
9/11/2019 10:47			0.002	0.028	
9/11/2019 10:48			0.002	0.037	
9/11/2019 10:49			0.002	0.028	
9/11/2019 10:50	12.5	92.1	0.002	0.029	42.43182;-76.49591
9/11/2019 10:51			0.002	0.028	
9/11/2019 10:52			0.002	0.028	
9/11/2019 10:53			0.002	0.027	
9/11/2019 10:54			0.002	0.028	
9/11/2019 10:55	12.5	101.2	0.002	0.028	42.43221;-76.49649
9/11/2019 10:56			0.002	0.028	
9/11/2019 10:57			0.002	0.028	
9/11/2019 10:58			0.002	0.027	
9/11/2019 10:59			0.002	0.027	
9/11/2019 11:00	12.5	95.1	0.003	0.026	42.43249;-76.49778
9/11/2019 11:01			0.003	0.025	
9/11/2019 11:02			0.003	0.026	
9/11/2019 11:03			0.003	0.025	
9/11/2019 11:04			0.003	0.026	
9/11/2019 11:05	12.5	91.1	0.003	0.025	42.43225;-76.4969
9/11/2019 11:06			0.003	0.025	
9/11/2019 11:07			0.003	0.026	
9/11/2019 11:08			0.003	0.025	
9/11/2019 11:09			0.003	0.025	
9/11/2019 11:10	12.5	99.2	0.003	0.024	42.43207;-76.49671
9/11/2019 11:11			0.003	0.026	
9/11/2019 11:12			0.003	0.024	
9/11/2019 11:13			0.003	0.024	
9/11/2019 11:14			0.003	0.026	
9/11/2019 11:15	12.5	100.2	0.003	0.025	42.43253;-76.49718
9/11/2019 11:16			0.003	0.025	
9/11/2019 11:17			0.003	0.036	
9/11/2019 11:18			0.003	0.028	
9/11/2019 11:19			0.004	0.027	
9/11/2019 11:20	12.5	101.2	0.004	0.025	42.43221;-76.49731
9/11/2019 11:21			0.004	0.026	
9/11/2019 11:22			0.004	0.026	
9/11/2019 11:23			0.004	0.025	
9/11/2019 11:24			0.004	0.026	
9/11/2019 11:25	12.5	96.2	0.004	0.024	42.43229;-76.49744
9/11/2019 11:26			0.004	0.024	
9/11/2019 11:27			0.004	0.025	
9/11/2019 11:28			0.004	0.025	
9/11/2019 11:29			0.004	0.024	
9/11/2019 11:30	12.5	95.1	0.004	0.025	42.43218;-76.49712
9/11/2019 11:31			0.004	0.025	
9/11/2019 11:32			0.004	0.026	
9/11/2019 11:33			0.004	0.025	
9/11/2019 11:34			0.004	0.026	
9/11/2019 11:35	12.5	89.1	0.004	0.025	42.43205;-76.49722
9/11/2019 11:36			0.004	0.025	
9/11/2019 11:37			0.004	0.025	
9/11/2019 11:38			0.005	0.026	
9/11/2019 11:39			0.005	0.026	
9/11/2019 11:40	12.5	94.1	0.005	0.026	42.43211;-76.49696
9/11/2019 11:41			0.005	0.027	
9/11/2019 11:42			0.005	0.028	
9/11/2019 11:43			0.005	0.029	
9/11/2019 11:44			0.005	0.026	
9/11/2019 11:45	12.5	99.2	0.005	0.026	42.43212;-76.49709
9/11/2019 11:46			0.005	0.026	
9/11/2019 11:47			0.005	0.025	
9/11/2019 11:48			0.005	0.025	
9/11/2019 11:49			0.005	0.025	
9/11/2019 11:50	12.4	88.1	0.005	0.025	42.43192;-76.49703
9/11/2019 11:51			0.005	0.025	
9/11/2019 11:52			0.005	0.025	
9/11/2019 11:53			0.005	0.025	
9/11/2019 11:54			0.005	0.025	
9/11/2019 11:55	12.5	91.1	0.005	0.024	42.43222;-76.49706
9/11/2019 11:56			0.006	0.025	
9/11/2019 11:57			0.006	0.026	
9/11/2019 11:58			0.006	0.026	
9/11/2019 11:59			0.006	0.027	
9/11/2019 12:00	12.5	92.1	0.006	0.025	42.43215;-76.49725
9/11/2019 12:01			0.006	0.026	
9/11/2019 12:02			0.006	0.027	
9/11/2019 12:03			0.006	0.027	
9/11/2019 12:04			0.006	0.027	
9/11/2019 12:05	12.4	97.2	0.006	0.026	42.43224;-76.49714
9/11/2019 12:06			0.006	0.027	
9/11/2019 12:07			0.006	0.027	
9/11/2019 12:08			0.006	0.027	
9/11/2019 12:09			0.006	0.027	
9/11/2019 12:10	12.4	89.1	0.006	0.026	42.43187;-76.49675
9/11/2019 12:11			0.006	0.026	
9/11/2019 12:12			0.006	0.025	
9/11/2019 12:13			0.006	0.024	
9/11/2019 12:14			0.006	0.025	
9/11/2019 12:15	12.5	92.1	0.007	0.025	42.43291;-76.49812
9/11/2019 12:16			0.007	0.026	
9/11/2019 12:17			0.007	0.025	
9/11/2019 12:18			0.007	0.025	
9/11/2019 12:19			0.007	0.026	
9/11/2019 12:20	12.5	101.2	0.007	0.024	42.43253;-76.49722
9/11/2019 12:21			0.007	0.025	
9/11/2019 12:22			0.007	0.026	
9/11/2019 12:23			0.007	0.027	
9/11/2019 12:24			0.007	0.027	
9/11/2019 12:25	12.4	91.1	0.007	0.026	42.4324;-76.49741
9/11/2019 12:26			0.007	0.027	
9/11/2019 12:27			0.007	0.026	
9/11/2019 12:28			0.007	0.027	
9/11/2019 12:29			0.007	0.027	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
9/11/2019 12:30	12.4	97.2	0.007	0.027	42.43217;-76.49735
9/11/2019 12:31			0.007	0.027	
9/11/2019 12:32			0.007	0.029	
9/11/2019 12:33			0.008	0.031	
9/11/2019 12:34			0.008	0.031	
9/11/2019 12:35	12.4	91.1	0.008	0.032	42.43228;-76.4972
9/11/2019 12:36			0.008	0.034	
9/11/2019 12:37			0.008	0.033	
9/11/2019 12:38			0.008	0.034	
9/11/2019 12:39			0.008	0.034	
9/11/2019 12:40	12.4	100.2	0.008	0.036	42.43262;-76.49744
9/11/2019 12:41			0.008	0.036	
9/11/2019 12:42			0.008	0.034	
9/11/2019 12:43			0.008	0.032	
9/11/2019 12:44			0.008	0.033	
9/11/2019 12:45	12.4	89.1	0.008	0.033	42.43253;-76.49707
9/11/2019 12:46			0.008	0.033	
9/11/2019 12:47			0.009	0.033	
9/11/2019 12:48			0.009	0.03	
9/11/2019 12:49			0.009	0.028	
9/11/2019 12:50	12.4	89.1	0.009	0.029	42.4327;-76.49765
9/11/2019 12:51			0.009	0.029	
9/11/2019 12:52			0.009	0.028	
9/11/2019 12:53			0.009	0.028	
9/11/2019 12:54			0.009	0.029	
9/11/2019 12:55	12.4	97.2	0.009	0.03	42.432;-76.49707
9/11/2019 12:56			0.009	0.03	
9/11/2019 12:57			0.009	0.031	
9/11/2019 12:58			0.009	0.032	
9/11/2019 12:59			0.009	0.032	
9/11/2019 13:00	12.4	93.1	0.009	0.033	42.43215;-76.49725
9/11/2019 13:01			0.009	0.034	
9/11/2019 13:02			0.009	0.034	
9/11/2019 13:03			0.01	0.034	
9/11/2019 13:04			0.01	0.03	
9/11/2019 13:05	12.4	89.1	0.01	0.029	42.43231;-76.49716
9/11/2019 13:06			0.01	0.03	
9/11/2019 13:07			0.01	0.029	
9/11/2019 13:08			0.01	0.028	
9/11/2019 13:09			0.01	0.03	
9/11/2019 13:10	12.4	100.2	0.01	0.031	42.43207;-76.49716
9/11/2019 13:11			0.01	0.032	
9/11/2019 13:12			0.01	0.033	
9/11/2019 13:13			0.01	0.033	
9/11/2019 13:14			0.01	0.033	
9/11/2019 13:15	12.4	95.1	0.01	0.034	42.43225;-76.49716
9/11/2019 13:16			0.01	0.035	
9/11/2019 13:17			0.01	0.034	
9/11/2019 13:18			0.011	0.034	
9/11/2019 13:19			0.011	0.034	
9/11/2019 13:20	12.4	89.1	0.011	0.035	42.43225;-76.49709
9/11/2019 13:21			0.011	0.035	
9/11/2019 13:22			0.011	0.034	
9/11/2019 13:23			0.011	0.033	
9/11/2019 13:24			0.011	0.035	
9/11/2019 13:25	12.4	97.2	0.011	0.034	42.43219;-76.49718
9/11/2019 13:26			0.011	0.034	
9/11/2019 13:27			0.011	0.032	
9/11/2019 13:28			0.011	0.034	
9/11/2019 13:29			0.011	0.034	
9/11/2019 13:30	12.4	89.1	0.011	0.034	42.43191;-76.49688
9/11/2019 13:31			0.011	0.034	
9/11/2019 13:32			0.012	0.034	
9/11/2019 13:33			0.012	0.034	
9/11/2019 13:34			0.012	0.035	
9/11/2019 13:35	12.4	90.1	0.012	0.033	42.43216;-76.49731
9/11/2019 13:36			0.012	0.034	
9/11/2019 13:37			0.012	0.035	
9/11/2019 13:38			0.012	0.034	
9/11/2019 13:39			0.012	0.034	
9/11/2019 13:40	12.4	91.1	0.012	0.034	42.43221;-76.49667
9/11/2019 13:41			0.012	0.035	
9/11/2019 13:42			0.012	0.035	
9/11/2019 13:43			0.012	0.036	
9/11/2019 13:44			0.012	0.035	
9/11/2019 13:45	12.4	94.1	0.012	0.036	42.43196;-76.4972
9/11/2019 13:46			0.013	0.035	
9/11/2019 13:47			0.013	0.034	
9/11/2019 13:48			0.013	0.034	
9/11/2019 13:49			0.013	0.035	
9/11/2019 13:50	12.4	94.1	0.013	0.036	42.43218;-76.49728
9/11/2019 13:51			0.013	0.036	
9/11/2019 13:52			0.013	0.036	
9/11/2019 13:53			0.013	0.035	
9/11/2019 13:54			0.013	0.035	
9/11/2019 13:55	12.4	93.1	0.013	0.035	42.43224;-76.49701
9/11/2019 13:56			0.013	0.036	
9/11/2019 13:57			0.013	0.036	
9/11/2019 13:58			0.013	0.036	
9/11/2019 13:59			0.013	0.036	
9/11/2019 14:00	12.3	98.2	0.014	0.037	42.43208;-76.49727
9/11/2019 14:01			0.014	0.037	
9/11/2019 14:02			0.014	0.037	
9/11/2019 14:03			0.014	0.036	
9/11/2019 14:04			0.014	0.036	
9/11/2019 14:05	12.3	91.1	0.014	0.037	42.43232;-76.49701
9/11/2019 14:06			0.014	0.036	
9/11/2019 14:07			0.014	0.037	
9/11/2019 14:08			0.014	0.037	
9/11/2019 14:09			0.014	0.037	
9/11/2019 14:10	12.3	94.1	0.014	0.038	42.43216;-76.49738
9/11/2019 14:11			0.014	0.037	
9/11/2019 14:12			0.014	0.038	
9/11/2019 14:13			0.015	0.037	
9/11/2019 14:14			0.015	0.038	
9/11/2019 14:15	12.3	101.2	0.015	0.038	42.43206;-76.49728
9/11/2019 14:16			0.015	0.038	
9/11/2019 14:17			0.015	0.038	
9/11/2019 14:18			0.015	0.038	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
9/11/2019 14:19			0.015	0.038	
9/11/2019 14:20	12.3	102.2	0.015	0.038	42.43217;-76.49707
9/11/2019 14:21			0.015	0.038	
9/11/2019 14:22			0.015	0.039	
9/11/2019 14:23			0.015	0.039	
9/11/2019 14:24			0.015	0.039	
9/11/2019 14:25	12.3	91.1	0.016	0.04	42.43229;-76.49709
9/11/2019 14:26			0.016	0.039	
9/11/2019 14:27			0.016	0.04	
9/11/2019 14:28			0.016	0.04	
9/11/2019 14:29			0.016	0.04	
9/11/2019 14:30	12.3	104.3	0.016	0.04	42.4319;-76.49752
9/11/2019 14:31			0.016	0.04	
9/11/2019 14:32			0.016	0.041	
9/11/2019 14:33			0.016	0.041	
9/11/2019 14:34			0.016	0.041	
9/11/2019 14:35	12.3	90.1	0.016	0.041	42.43249;-76.49738
9/11/2019 14:36			0.016	0.042	
9/11/2019 14:37			0.017	0.041	
9/11/2019 14:38			0.017	0.041	
9/11/2019 14:39			0.017	0.041	
9/11/2019 14:40	12.3	94.1	0.017	0.041	42.43233;-76.49716
9/11/2019 14:41			0.017	0.041	
9/11/2019 14:42			0.017	0.042	
9/11/2019 14:43			0.017	0.041	
9/11/2019 14:44			0.017	0.042	
9/11/2019 14:45	12.3	97.2	0.017	0.043	42.43144;-76.49744
9/11/2019 14:46			0.017	0.043	
9/11/2019 14:47			0.017	0.042	
9/11/2019 14:48			0.017	0.042	
9/11/2019 14:49			0.018	0.042	
9/11/2019 14:50	12.3	96.2	0.018	0.042	42.43131;-76.49767
9/11/2019 14:51			0.018	0.042	
9/11/2019 14:52			0.018	0.043	
9/11/2019 14:53			0.018	0.043	
9/11/2019 14:54			0.018	0.043	
9/11/2019 14:55	12.3	98.2	0.018	0.042	42.43229;-76.4977
9/11/2019 14:56			0.018	0.043	
9/11/2019 14:57			0.018	0.043	
9/11/2019 14:58			0.018	0.044	
9/11/2019 14:59			0.018	0.046	
9/11/2019 15:00	12.3	90.1	0.019	0.045	42.43242;-76.49741
9/11/2019 15:01			0.019	0.046	
9/11/2019 15:02			0.019	0.044	
9/11/2019 15:03			0.019	0.045	
9/11/2019 15:04			0.019	0.045	
9/11/2019 15:05	12.3	97.2	0.019	0.045	42.43213;-76.49699
9/11/2019 15:06			0.019	0.044	
9/11/2019 15:07			0.019	0.044	
9/11/2019 15:08			0.019	0.044	
9/11/2019 15:09			0.019	0.044	
9/11/2019 15:10	12.3	106.3	0.019	0.044	42.43244;-76.49752
9/11/2019 15:11			0.02	0.044	
9/11/2019 15:12			0.02	0.044	
9/11/2019 15:13			0.02	0.044	
9/11/2019 15:14			0.02	0.044	
9/11/2019 15:15	12.3	95.1	0.02	0.044	42.43221;-76.4968
9/11/2019 15:16			0.02	0.044	
9/11/2019 15:17			0.02	0.043	
9/11/2019 15:18			0.02	0.044	
9/11/2019 15:19			0.02	0.044	
9/11/2019 15:20	12.3	90.1	0.02	0.044	42.43213;-76.49703
9/11/2019 15:21			0.02	0.044	
9/11/2019 15:22			0.021	0.043	
9/11/2019 15:23			0.021	0.043	
9/11/2019 15:24			0.021	0.044	
9/11/2019 15:25	12.2	92.1	0.021	0.044	42.43225;-76.49744
9/11/2019 15:26			0.021	0.043	
9/11/2019 15:27			0.021	0.043	
9/11/2019 15:28			0.021	0.044	
9/11/2019 15:29			0.021	0.044	
9/11/2019 15:30	12.2	92.1	0.021	0.044	42.43201;-76.49744
9/11/2019 15:31			0.021	0.044	
9/11/2019 15:32			0.021	0.044	
9/11/2019 15:33			0.022	0.044	
9/11/2019 15:34			0.022	0.044	
9/11/2019 15:35	12.3	102.2	0.022	0.044	42.4326;-76.49757
9/11/2019 15:36			0.022	0.044	
9/11/2019 15:37			0.022	0.044	
9/11/2019 15:38			0.022	0.044	
9/11/2019 15:39			0.022	0.044	
9/11/2019 15:40	12.2	98.2	0.022	0.044	42.43216;-76.49694
9/11/2019 15:41			0.022	0.045	
9/11/2019 15:42			0.022	0.046	
9/11/2019 15:43			0.023	0.047	
9/11/2019 15:44			0.023	0.047	
9/11/2019 15:45	12.2	92.1	0.023	0.047	42.43248;-76.49754
9/11/2019 15:46			0.023	0.048	
9/11/2019 15:47			0.023	0.049	
9/11/2019 15:48			0.023	0.049	
9/11/2019 15:49			0.023	0.049	
9/11/2019 15:50	12.2	102.2	0.023	0.048	42.43253;-76.49718
9/11/2019 15:51			0.023	0.049	
9/11/2019 15:52			0.023	0.05	
9/11/2019 15:53			0.024	0.048	
9/11/2019 15:54			0.024	0.048	
9/11/2019 15:55	12.2	94.1	0.024	0.046	42.4323;-76.49727
9/11/2019 15:56			0.024	0.046	
9/11/2019 15:57			0.024	0.049	
9/11/2019 15:58			0.024	0.048	
9/11/2019 15:59			0.024	0.047	
9/11/2019 16:00	12.2	98.2	0.024	0.05	42.43176;-76.49669
9/11/2019 16:01			0.024	0.051	
9/11/2019 16:02			0.024	0.048	
9/11/2019 16:03			0.025	0.048	
9/11/2019 16:04			0.025	0.048	
9/11/2019 16:05	12.2	98.2	0.025	0.05	42.43219;-76.49712
9/11/2019 16:06			0.025	0.05	
9/11/2019 16:07			0.025	0.05	

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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
9/11/2019 16:08			0.025	0.048	
9/11/2019 16:09			0.025	0.049	
9/11/2019 16:10	12.2	92.1	0.025	0.049	42.43249;-76.49746
9/11/2019 16:11			0.025	0.049	
9/11/2019 16:12			0.025	0.048	
9/11/2019 16:13			0.026	0.05	
9/11/2019 16:14			0.026	0.051	
9/11/2019 16:15	12.2	93.1	0.026	0.053	42.43234;-76.49731
9/11/2019 16:16			0.026	0.053	
9/11/2019 16:17			0.026	0.052	
9/11/2019 16:18			0.026	0.053	
9/11/2019 16:19			0.026	0.053	
9/11/2019 16:20	12.2	93.1	0.026	0.052	42.43234;-76.49748
9/11/2019 16:21			0.026	0.054	
9/11/2019 16:22			0.027	0.053	
9/11/2019 16:23			0.027	0.051	
9/11/2019 16:24			0.027	0.051	
9/11/2019 16:25	12.2	97.2	0.027	0.053	42.43218;-76.4972
9/11/2019 16:26			0.027	0.052	
9/11/2019 16:27			0.027	0.05	
9/11/2019 16:28			0.027	0.052	
9/11/2019 16:29			0.027	0.051	
9/11/2019 16:30	12.2	92.1	0.027	0.05	42.4326;-76.49746
9/11/2019 16:31			0.028	0.051	
9/11/2019 16:32			0.028	0.05	
9/11/2019 16:33			0.028	0.055	
9/11/2019 16:34			0.028	0.054	
9/11/2019 16:35	12.2	99.2	0.028	0.052	42.43229;-76.49722
9/11/2019 16:36			0.028	0.05	
9/11/2019 16:37			0.028	0.051	
9/11/2019 16:38			0.028	0.052	
9/11/2019 16:39			0.028	0.05	
9/11/2019 16:40	12.2	110.3	0.028	0.05	42.4321;-76.49706
9/11/2019 16:41			0.029	0.05	
9/11/2019 16:42			0.029	0.051	
9/11/2019 16:43			0.029	0.053	
9/11/2019 16:44			0.029	0.052	
9/11/2019 16:45	12.2	93.1	0.029	0.053	42.43231;-76.49716
9/11/2019 16:46			0.029	0.053	
9/11/2019 16:47			0.029	0.054	
9/11/2019 16:48			0.029	0.054	
9/11/2019 16:49			0.029	0.055	
9/11/2019 16:50	12.2	97.2	0.03	0.055	42.43207;-76.49776
9/11/2019 16:51			0.03	0.056	
9/11/2019 16:52			0.03	0.056	
9/11/2019 16:53			0.03	0.057	
9/11/2019 16:54			0.03	0.055	
9/11/2019 16:55	12.2	92.1	0.03	0.057	42.43211;-76.4972
9/11/2019 16:56			0.03	0.058	
9/11/2019 16:57			0.03	0.055	
9/11/2019 16:58			0.031	0.056	
9/11/2019 16:59			0.031	0.057	
9/11/2019 17:00	12.2	107.3	0.031	0.058	42.43203;-76.49709
9/11/2019 17:01			0.031	0.056	
9/11/2019 17:02			0.031	0.053	
9/11/2019 17:03			0.031	0.054	
9/11/2019 17:04			0.031	0.056	
9/11/2019 17:05	12.2	92.1	0.031	0.055	42.4324;-76.49722
9/11/2019 17:06			0.031	0.057	
9/11/2019 17:07			0.032	0.058	
9/11/2019 17:08			0.032	0.058	
9/11/2019 17:09			0.032	0.059	
9/11/2019 17:10	12.2	103.2	0.032	0.059	42.43216;-76.49709
9/11/2019 17:11			0.032	0.058	
9/11/2019 17:12			0.032	0.058	
9/11/2019 17:13			0.032	0.059	
9/11/2019 17:14			0.032	0.058	
9/11/2019 17:15	12.1	92.1	0.033	0.057	42.43253;-76.49706
9/11/2019 17:16			0.033	0.058	
9/11/2019 17:17			0.033	0.057	
9/11/2019 17:18			0.033	0.059	
9/11/2019 17:19			0.033	0.059	
9/11/2019 17:20	12.2	93.1	0.033	0.058	42.43246;-76.4972
9/11/2019 17:21			0.033	0.06	
9/11/2019 17:22			0.033	0.062	
9/11/2019 17:23			0.034	0.06	
9/11/2019 17:24			0.034	0.058	
9/11/2019 17:25	12.2	104.3	0.034	0.058	42.43237;-76.49694
9/11/2019 17:26			0.034	0.06	
9/11/2019 17:27			0.034	0.06	
9/11/2019 17:28			0.034	0.06	
9/11/2019 17:29			0.034	0.06	
9/11/2019 17:30	12.1	92.1	0.034	0.06	42.43265;-76.49712
9/11/2019 17:31			0.035	0.061	
9/11/2019 17:32			0.035	0.06	
9/11/2019 17:33			0.035	0.06	
9/11/2019 17:34			0.035	0.06	
9/11/2019 17:35	12.2	91.1	0.035	0.059	42.43286;-76.49744
9/11/2019 17:36			0.035	0.06	
9/11/2019 17:37			0.035	0.061	
9/11/2019 17:38			0.035	0.061	
9/11/2019 17:39			0.036	0.06	
9/11/2019 17:40	12.1	103.2	0.036	0.061	42.43238;-76.49703
9/11/2019 17:41			0.036	0.062	
9/11/2019 17:42			0.036	0.06	
9/11/2019 17:43			0.036	0.06	
9/11/2019 17:44			0.036	0.062	
9/11/2019 17:45	12.1	108.3	0.036	0.061	42.43244;-76.49727
9/11/2019 17:46			0.036	0.061	
9/11/2019 17:47			0.037	0.061	
9/11/2019 17:48			0.037	0.061	
9/11/2019 17:49			0.037	0.062	
9/11/2019 17:50	12.1	93.1	0.037	0.062	42.43318;-76.49712
9/11/2019 17:51			0.037	0.062	
9/11/2019 17:52			0.037	0.062	
9/11/2019 17:53			0.037	0.061	
9/11/2019 17:54			0.037	0.061	
9/11/2019 17:55	12.1	102.2	0.038	0.061	42.43303;-76.49701
9/11/2019 17:56			0.038	0.062	

Community Air Monitoring Program - Upwind Station
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Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
9/11/2019 17:57			0.038	0.063	
9/11/2019 17:58			0.038	0.061	
9/11/2019 17:59			0.038	0.06	
9/11/2019 18:00	12.1	91.1	0.038	0.06	42.43277;-76.49706
9/11/2019 18:01			0.038	0.061	
9/11/2019 18:02			0.038	0.063	
9/11/2019 18:03			0.039	0.061	
9/11/2019 18:04			0.039	0.062	
9/11/2019 18:05	12.1	100.2	0.039	0.062	42.43241;-76.49725
9/11/2019 18:06			0.039	0.061	
9/11/2019 18:07			0.039	0.062	
9/11/2019 18:08			0.039	0.063	
9/11/2019 18:09			0.039	0.064	
9/11/2019 18:10	12.1	102.2	0.039	0.064	42.43255;-76.49701
9/11/2019 18:11			0.04	0.063	
9/11/2019 18:12			0.04	0.064	
9/11/2019 18:13			0.04	0.064	
9/11/2019 18:14			0.04	0.063	
9/11/2019 18:15	12.1	93.1	0.04	0.064	42.43224;-76.4972
9/11/2019 18:16			0.04	0.064	
9/11/2019 18:17			0.04	0.063	
9/11/2019 18:18			0.041	0.063	
9/11/2019 18:19			0.041	0.063	
9/11/2019 18:20	12.1	93.1	0.041	0.064	42.43211;-76.49703
9/11/2019 18:21			0.041	0.064	
9/11/2019 18:22			0.041	0.064	
9/11/2019 18:23			0.041	0.064	
9/11/2019 18:24			0.041	0.064	
9/11/2019 18:25	12.1	95.1	0.041	0.064	42.43258;-76.49694
9/11/2019 18:26			0.041	0.064	
9/11/2019 18:27			0.041	0.065	
9/11/2019 18:28			0.041	0.066	
9/11/2019 18:29			0.041	0.065	
9/11/2019 18:30	12.1	94.1	0.041	0.065	42.43247;-76.49703
9/11/2019 18:31			0.041	0.064	
9/11/2019 18:32			0.041	0.065	
9/11/2019 18:33			0.041	0.065	
9/11/2019 18:34			0.041	0.061	
9/11/2019 18:35	12.1	92.1	0.041	0.063	42.43167;-76.49815
9/11/2019 18:36			0.041	0.063	
9/11/2019 18:37			0.041	0.064	
9/11/2019 18:38			0.041	0.064	
9/11/2019 18:39			0.041	0.065	
9/11/2019 18:40	12.1	92.1	0.041	0.066	42.43231;-76.49693
9/11/2019 18:41			0.041	0.065	
9/11/2019 18:42			0.041	0.063	
9/11/2019 18:43			0.041	0.064	
9/11/2019 18:44			0.041	0.064	
9/11/2019 18:45	12.1	96.2	0.041	0.064	42.43233;-76.49699
9/11/2019 18:46			0.041	0.064	
9/11/2019 18:47			0.041	0.064	
9/11/2019 18:48			0.041	0.066	
9/11/2019 18:49			0.041	0.066	
9/11/2019 18:50	12.1	92.1	0.041	0.066	
9/11/2019 18:51			0.041	0.066	
9/11/2019 18:52			0.041	0.067	
9/11/2019 18:53			0.041	0.066	
9/11/2019 18:54			0.041	0.066	
9/11/2019 18:55	12.1	101.2	0.041	0.066	42.43249;-76.49744
9/11/2019 18:56			0.041	0.065	
9/11/2019 18:57			0.041	0.065	
9/11/2019 18:58			0.041	0.064	
9/11/2019 18:59			0.041	0.064	
9/11/2019 19:00	12.1	97.2	0.041	0.065	42.43232;-76.49735
9/11/2019 19:01			0.041	0.065	
9/11/2019 19:02			0.041	0.065	
9/11/2019 19:03			0.041	0.063	
9/11/2019 19:04			0.041	0.061	
9/11/2019 19:05	12.1	119.4	0.041	0.063	42.43234;-76.49728
9/11/2019 19:06			0.041	0.063	
9/11/2019 19:07			0.041	0.063	
9/11/2019 19:08			0.041	0.066	
9/11/2019 19:09			0.041	0.064	
9/11/2019 19:10	12.3	93.1	0.041	0.061	42.43228;-76.49716
9/11/2019 19:11			0.041	0.066	
9/11/2019 19:12			0.041	0.065	
9/11/2019 19:13			0.041	0.065	
9/11/2019 19:14			0.041	0.065	
9/11/2019 19:15	12.5	101.2	0.041	0.064	42.4323;-76.49722
9/11/2019 19:16			0.041	0.063	
9/11/2019 19:17			0.041	0.063	
9/11/2019 19:18			0.041	0.063	
9/11/2019 19:19			0.041	0.063	
9/11/2019 19:20	12	94.1	0.041	0.064	42.43224;-76.49703
9/11/2019 19:21			0.041	0.063	
9/11/2019 19:22			0.041	0.062	
9/11/2019 19:23			0.041	0.065	
9/11/2019 19:24			0.041	0.064	
9/11/2019 19:25	12	101.2	0.041	0.063	42.43186;-76.49694
9/11/2019 19:26			0.041	0.065	
9/11/2019 19:27			0.041	0.067	
9/11/2019 19:28			0.041	0.066	
9/11/2019 19:29			0.041	0.066	
9/11/2019 19:30	11.9	98.2	0.041	0.066	42.43207;-76.49714
9/11/2019 19:31			0.041	0.065	
9/11/2019 19:32			0.041	0.066	
9/11/2019 19:33			0.041	0.065	
9/11/2019 19:34			0.041	0.066	
9/11/2019 19:35	12.1	112.4	0.041	0.066	
9/11/2019 19:35					42.43196;-76.49696
9/11/2019 19:36			0.041	0.066	
9/11/2019 19:37			0.041	0.066	
9/11/2019 19:38			0.041	0.066	
9/11/2019 19:39			0.041	0.066	
9/11/2019 19:40	12	92.1	0.041	0.067	42.43219;-76.49706
9/11/2019 19:41			0.041	0.066	
9/11/2019 19:42			0.041	0.064	
9/11/2019 19:43			0.041	0.064	
9/11/2019 19:44			0.041	0.064	

Appendix F

Community Air Monitoring Program - Upwind Station
May 15, 2019 to September 11, 2019

Device:	Thiamis-1000	Thiamis-1000	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
9/11/2019 19:45	12.1	93.1	0.041	0.065	42.4323;-76.49741
9/11/2019 19:46			0.041	0.069	
9/11/2019 19:47			0.041	0.067	
9/11/2019 19:48			0.041	0.068	
9/11/2019 19:49			0.041	0.067	
9/11/2019 19:50	12.1	92.1	0.041	0.065	42.43205;-76.49703
9/11/2019 19:51			0.041	0.066	
9/11/2019 19:52			0.041	0.066	
9/11/2019 19:53			0.041	0.066	
9/11/2019 19:54			0.041	0.067	
9/11/2019 19:55	12.3	97.2	0.041	0.066	42.43245;-76.49725
9/11/2019 19:56			0.041	0.067	
9/11/2019 19:57			0.041	0.067	
9/11/2019 19:58			0.041	0.067	
9/11/2019 19:59			0.041	0.067	
9/11/2019 20:00	12.2	97.2	0.041	0.068	42.43248;-76.49748
9/11/2019 20:01			0.041	0.068	
9/11/2019 20:02			0.041	0.068	
9/11/2019 20:03			0.041	0.067	
9/11/2019 20:04			0.041	0.068	
9/11/2019 20:05	12.3	91.1	0.041	0.067	42.43225;-76.49735
9/11/2019 20:06			0.041	0.067	
9/11/2019 20:07			0.041	0.068	
9/11/2019 20:08			0.041	0.068	
9/11/2019 20:09			0.041	0.068	
9/11/2019 20:10	12.3	98.2	0.041	0.069	42.4323;-76.49722
9/11/2019 20:11			0.041	0.067	
9/11/2019 20:12			0.041	0.068	
9/11/2019 20:13			0.041	0.069	
9/11/2019 20:14			0.041	0.069	
9/11/2019 20:15	12.3	102.2	0.041	0.068	42.43249;-76.49741
9/11/2019 20:16			0.041	0.069	
9/11/2019 20:17			0.041	0.069	
9/11/2019 20:18			0.041	0.067	
9/11/2019 20:19			0.041	0.067	
9/11/2019 20:20	12.1	96.2	0.041	0.067	42.43242;-76.49754
9/11/2019 20:21			0.041	0.067	
9/11/2019 20:22			0.041	0.066	
9/11/2019 20:23			0.041	0.067	
9/11/2019 20:24			0.041	0.066	
9/11/2019 20:25	12.1	92.1	0.041	0.066	42.43238;-76.49694
9/11/2019 20:26			0.041	0.066	
9/11/2019 20:27			0.041	0.066	
9/11/2019 20:28			0.041	0.067	
9/11/2019 20:29			0.041	0.067	
9/11/2019 20:30	12.1	103.2	0.041	0.067	42.43232;-76.49725
9/11/2019 20:31			0.041	0.067	
9/11/2019 20:32			0.041	0.067	
9/11/2019 20:33			0.041	0.067	
9/11/2019 20:34			0.041	0.065	
9/11/2019 20:35	12.1	92.1	0.041	0.067	42.43235;-76.49725
9/11/2019 20:36			0.041	0.065	
9/11/2019 20:37			0.041	0.066	
9/11/2019 20:38			0.041	0.066	
9/11/2019 20:39			0.041	0.066	
9/11/2019 20:40	12.1	97.2	0.041	0.066	42.43216;-76.4972
9/11/2019 20:41			0.041	0.067	
9/11/2019 20:42			0.041	0.067	

Community Air Monitoring Program - Downwind Station
May 15, 2019 to September 11, 2019

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/15/2019 13:55	12.4	134.6								
5/15/2019 13:57	12.2	129.6								
5/15/2019 13:59								0	0.017	
5/15/2019 14:00	12.3	88.1						0	0.016	
5/15/2019 14:01			0	0	0	0	0	0	0.014	
5/15/2019 14:02			0	0	0	0	0	0	0.013	
5/15/2019 14:03			0	0	0	0	0	0	0.013	
5/15/2019 14:04			0	0	0	0	0	0	0.013	
5/15/2019 14:05	12.3	87	0	0	0	0	0	0	0.015	
5/15/2019 14:06			0	0	0	0	0	0	0.014	
5/15/2019 14:07			0	0	0	0	0	0	0.013	
5/15/2019 14:08			0	0	0	0	0	0	0.013	
5/15/2019 14:09			0	0	0	0	0	0	0.013	
5/15/2019 14:10	12.3	87	0	0	0	0	0	0	0.012	
5/15/2019 14:11			0	0	0	0	0	0	0.012	
5/15/2019 14:12			0	0	0	0	0	0	0.012	
5/15/2019 14:13			0	0	0	0	0	0	0.012	
5/15/2019 14:14			0	0	0	0	0	0	0.012	
5/15/2019 14:15	12.3	89.1	0	0	0	0	0	0	0.012	
5/15/2019 14:16			0	0	0	0	0	0	0.012	
5/15/2019 14:17			0	0	0	0	0	0	0.012	
5/15/2019 14:18			0	0	0	0	0	0.001	0.012	
5/15/2019 14:19			0	0	0	0	0	0.001	0.012	
5/15/2019 14:20	12.3	89.1	0	0	0	0	0	0.001	0.012	
5/15/2019 14:21			0	0	0	0	0	0.001	0.012	
5/15/2019 14:22			0	0	0	0	0	0.001	0.012	
5/15/2019 14:23			0	0	0	0	0	0.001	0.012	
5/15/2019 14:24			0	0	0	0	0	0.001	0.013	
5/15/2019 14:25	12.3	88.1	0	0	0	0	0	0.001	0.012	
5/15/2019 14:26			0	0	0	0	0	0.001	0.012	
5/15/2019 14:27			0	0	0	0	0	0.001	0.012	
5/15/2019 14:28			0	0	0	0	0	0.001	0.013	
5/15/2019 14:29			0	0	0	0	0	0.001	0.013	
5/15/2019 14:30	12.3	87	0	0	0	0	0	0.001	0.013	
5/15/2019 14:31			0	0	0	0	0	0.001	0.012	
5/15/2019 14:32			0	0	0	0	0	0.001	0.012	
5/15/2019 14:33			0	0	0	0	0	0.001	0.012	
5/15/2019 14:34			0	0	0	0	0	0.001	0.012	
5/15/2019 14:35	12.3	88.1	0	0	0	0	0	0.001	0.012	
5/15/2019 14:36			0	0	0	0	0	0.001	0.011	
5/15/2019 14:37			0	0	0	0	0	0.001	0.012	
5/15/2019 14:38			0	0	0	0	0	0.001	0.011	
5/15/2019 14:39			0	0	0	0	0	0.001	0.011	
5/15/2019 14:40	12.3	89.1	0	0	0	0	0	0.001	0.012	
5/15/2019 14:41			0	0	0	0	0	0.001	0.012	
5/15/2019 14:42			0	0	0	0	0	0.001	0.011	
5/15/2019 14:43			0	0	0	0	0	0.001	0.012	
5/15/2019 14:44			0	0	0	0	0	0.001	0.012	
5/15/2019 14:45	12.3	88.1	0	0	0	0	0	0.001	0.011	
5/15/2019 14:46			0	0	0	0	0	0.001	0.012	
5/15/2019 14:47			0	0	0	0	0	0.001	0.012	
5/15/2019 14:48			0	0	0	0	0	0.001	0.012	
5/15/2019 14:49			0	0	0	0	0	0.001	0.012	
5/15/2019 14:50	12.3	88.1	0	0	0	0	0	0.001	0.012	
5/15/2019 14:51			0	0	0	0	0	0.001	0.012	
5/15/2019 14:52			0	0	0	0	0	0.001	0.012	
5/15/2019 14:53			0	0	0	0	0	0.001	0.012	
5/15/2019 14:54			0	0	0	0	0	0.001	0.012	
5/15/2019 14:55	12.3	93.1	0	0	0	0	0	0.001	0.012	
5/15/2019 14:56			0	0	0	0	0	0.001	0.011	
5/15/2019 14:57			0	0	0	0	0	0.001	0.011	
5/15/2019 14:58			0	0	0	0	0	0.002	0.011	
5/15/2019 14:59			0	0	0	0	0	0.002	0.011	
5/15/2019 15:00	12.3	88.1	0	0	0	0	0	0.002	0.011	
5/15/2019 15:01			0	0	0	0	0	0.002	0.011	
5/15/2019 15:02			0	0	0	0	0	0.002	0.011	
5/15/2019 15:03			0	0	0	0	0	0.002	0.011	
5/15/2019 15:04			0	0	0	0	0	0.002	0.011	
5/15/2019 15:05	12.3	94.1	0	0	0	0	0	0.002	0.012	
5/15/2019 15:06			0	0	0	0	0	0.002	0.012	
5/15/2019 15:07			0	0	0	0	0	0.002	0.01	
5/15/2019 15:08			0	0	0	0	0	0.002	0.011	
5/15/2019 15:09			0	0	0	0	0	0.002	0.01	
5/15/2019 15:10	12.3	88.1	0	0	0	0	0	0.002	0.01	
5/15/2019 15:11			0	0	0	0	0	0.002	0.01	
5/15/2019 15:12			0	0	0	0	0	0.002	0.01	
5/15/2019 15:13			0	0	0	0	0	0.002	0.01	
5/15/2019 15:14			0	0	0	0	0	0.002	0.01	
5/15/2019 15:15	12.3	88.1	0	0	0	0	0	0.002	0.009	
5/15/2019 15:16			0	0	0	0	0	0.002	0.009	
5/15/2019 15:17			0	0	0	0	0	0.002	0.009	
5/15/2019 15:18			0	0	0	0	0	0.002	0.009	
5/15/2019 15:19			0	0	0	0	0	0.002	0.008	
5/15/2019 15:20	12.3	89.1	0	0	0	0	0	0.002	0.008	
5/15/2019 15:21			0	0	0	0	0	0.002	0.009	
5/15/2019 15:22			0	0	0	0	0	0.002	0.008	
5/15/2019 15:23			0	0	0	0	0	0.002	0.009	
5/15/2019 15:24			0	0	0	0	0	0.002	0.009	
5/15/2019 15:25	12.3	89.1	0	0	0	0	0	0.002	0.008	
5/15/2019 15:26			0	0	0	0	0	0.002	0.009	
5/15/2019 15:27			0	0	0	0	0	0.002	0.009	
5/15/2019 15:28			0	0	0	0	0	0.002	0.009	
5/15/2019 15:29			0	0	0	0	0	0.002	0.008	
5/15/2019 15:30	12.3	88.1	0	0	0	0	0	0.002	0.008	
5/15/2019 15:31			0	0	0	0	0	0.002	0.009	
5/15/2019 15:32			0	0	0	0	0	0.002	0.008	
5/15/2019 15:33			0	0	0	0	0	0.002	0.008	
5/15/2019 15:34			0	0	0	0	0	0.002	0.009	
5/15/2019 15:35	12.3	89.1	0	0	0	0	0	0.002	0.008	
5/15/2019 15:36			0	0	0	0	0	0.002	0.008	
5/15/2019 15:37			0	0	0	0	0	0.002	0.008	
5/15/2019 15:38			0	0	0	0	0	0.002	0.009	
5/15/2019 15:39			0	0	0	0	0	0.002	0.008	
5/15/2019 15:40	12.3	89.1	0	0	0	0	0	0.002	0.008	
5/15/2019 15:41			0	0	0	0	0	0.002	0.009	
5/15/2019 15:42			0	0	0	0	0	0.002	0.009	
5/15/2019 15:43			0	0	0	0	0	0.002	0.009	
5/15/2019 15:44			0	0	0	0	0	0.002	0.009	
5/15/2019 15:45	12.3	90.1	0	0	0	0	0	0.002	0.008	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/15/2019 15:46			0	0	0	0	0	0.002	0.009	
5/15/2019 15:47			0	0	0	0	0	0.002	0.009	
5/15/2019 15:48			0	0	0	0	0	0.002	0.008	
5/15/2019 15:49			0	0	0	0	0	0.002	0.009	
5/15/2019 15:50	12.3	89.1	0	0	0	0	0	0.003	0.014	
5/15/2019 15:51			0	0	0	0	0	0.003	0.01	
5/15/2019 15:52			0	0	0	0	0	0.003	0.01	
5/15/2019 15:53			0	0	0	0	0	0.003	0.009	
5/15/2019 15:54			0	0	0	0	0	0.003	0.01	
5/15/2019 15:55	12.3	89.1	0	0	0	0	0	0.003	0.008	
5/15/2019 15:56			0	0	0	0	0	0.003	0.009	
5/15/2019 15:57			0	0	0	0	0	0.003	0.009	
5/15/2019 15:58			0	0	0	0	0	0.003	0.008	
5/15/2019 15:59			0	0	0	0	0	0.003	0.009	
5/15/2019 16:00	12.3	110.3	0	0	0	0	0	0.003	0.008	
5/15/2019 16:01			0	0	0	0	0	0.003	0.008	
5/15/2019 16:02			0	0	0	0	0	0.003	0.008	
5/15/2019 16:03			0	0	0	0	0	0.003	0.008	
5/15/2019 16:04			0	0	0	0	0	0.003	0.008	
5/15/2019 16:05	12.3	90.1	0	0	0	0	0	0.003	0.008	
5/15/2019 16:06			0	0	0	0	0	0.003	0.008	
5/15/2019 16:07			0	0	0	0	0	0.003	0.008	
5/15/2019 16:08			0	0	0	0	0	0.003	0.008	
5/15/2019 16:09			0	0	0	0	0	0.003	0.008	
5/15/2019 16:10	12.3	89.1	0	0	0	0	0	0.003	0.008	
5/15/2019 16:11			0	0	0	0	0	0.003	0.008	
5/15/2019 16:12			0	0	0	0	0	0.003	0.008	
5/15/2019 16:13			0	0	0	0	0	0.003	0.008	
5/15/2019 16:14			0	0	0	0	0	0.003	0.008	
5/15/2019 16:15	12.3	88.1	0	0	0	0	0	0.003	0.008	
5/15/2019 16:16			0	0	0	0	0	0.003	0.008	
5/15/2019 16:17			0	0	0	0	0	0.003	0.008	
5/15/2019 16:18			0	0	0	0	0	0.003	0.008	
5/15/2019 16:19			0	0	0	0	0	0.003	0.007	
5/15/2019 16:20	12.3	89.1	0	0	0	0	0	0.003	0.008	
5/15/2019 16:21			0	0	0	0	0	0.003	0.008	
5/15/2019 16:22			0	0	0	0	0	0.003	0.008	
5/15/2019 16:23			0	0	0	0	0	0.003	0.008	
5/15/2019 16:24			0	0	0	0	0	0.003	0.008	
5/15/2019 16:25	12.3	90.1	0	0	0	0	0	0.003	0.007	
5/15/2019 16:26			0	0	0	0	0	0.003	0.008	
5/15/2019 16:27			0	0	0	0	0	0.003	0.007	
5/15/2019 16:28			0	0	0	0	0	0.003	0.007	
5/15/2019 16:29			0	0	0	0	0	0.003	0.007	
5/15/2019 16:30	12.3	89.1	0	0	0	0	0	0.003	0.008	
5/15/2019 16:31			0	0	0	0	0	0.003	0.008	
5/15/2019 16:32			0	0	0	0	0	0.003	0.008	
5/15/2019 16:33			0	0	0	0	0	0.003	0.007	
5/15/2019 16:34			0	0	0	0	0	0.003	0.008	
5/15/2019 16:35	12.3	87	0	0	0	0	0	0.003	0.008	
5/15/2019 16:36			0	0	0	0	0	0.003	0.008	
5/15/2019 16:37			0	0	0	0	0	0.003	0.008	
5/15/2019 16:38			0	0	0	0	0	0.003	0.008	
5/15/2019 16:39			0	0	0	0	0	0.003	0.008	
5/15/2019 16:40	12.3	90.1	0	0	0	0	0	0.003	0.008	
5/15/2019 16:41			0	0	0	0	0	0.003	0.007	
5/15/2019 16:42			0	0	0	0	0	0.003	0.008	
5/15/2019 16:43			0	0	0	0	0	0.003	0.008	
5/15/2019 16:44			0	0	0	0	0	0.003	0.008	
5/15/2019 16:45	12.3	90.1	0	0	0	0	0	0.003	0.008	
5/15/2019 16:46			0	0	0	0	0	0.003	0.008	
5/15/2019 16:47			0	0	0	0	0	0.003	0.009	
5/15/2019 16:48			0	0	0	0	0	0.003	0.008	
5/15/2019 16:49			0	0	0	0	0	0.004	0.008	
5/15/2019 16:50	12.3	89.1	0	0	0	0	0	0.004	0.008	
5/15/2019 16:51			0	0	0	0	0	0.004	0.008	
5/15/2019 16:52			0	0	0	0	0	0.004	0.008	
5/15/2019 16:53			0	0	0	0	0	0.004	0.008	
5/15/2019 16:54			0	0	0	0	0	0.004	0.009	
5/15/2019 16:55	12.3	89.1	0	0	0	0	0	0.004	0.009	
5/15/2019 16:56			0	0	0	0	0	0.004	0.008	
5/15/2019 16:57			0	0	0	0	0	0.004	0.009	
5/15/2019 16:58			0	0	0	0	0	0.004	0.009	
5/15/2019 16:59			0	0	0	0	0	0.004	0.009	
5/15/2019 17:00	12.3	89.1	0	0	0	0	0	0.004	0.008	
5/15/2019 17:01			0	0	0	0	0	0.004	0.009	
5/15/2019 17:02			0	0	0	0	0	0.004	0.009	
5/15/2019 17:03			0	0	0	0	0	0.004	0.009	
5/15/2019 17:04			0	0	0	0	0	0.004	0.008	
5/15/2019 17:05	12.2	89.1	0	0	0	0	0	0.004	0.009	
5/15/2019 17:06			0	0	0	0	0	0.004	0.009	
5/15/2019 17:07			0	0	0	0	0	0.004	0.008	
5/15/2019 17:08			0	0	0	0	0	0.004	0.009	
5/15/2019 17:09			0	0	0	0	0	0.004	0.009	
5/15/2019 17:10	12.3	89.1	0	0	0	0	0	0.004	0.009	
5/15/2019 17:11			0	0	0	0	0	0.004	0.009	
5/15/2019 17:12			0	0	0	0	0	0.004	0.011	
5/15/2019 17:13			0	0	0	0	0	0.004	0.012	
5/15/2019 17:14			0	0	0	0	0	0.004	0.009	
5/15/2019 17:15	12.2	91.1	0	0	0	0	0	0.004	0.009	
5/15/2019 17:16			0	0	0	0	0	0.004	0.008	
5/15/2019 17:17			0	0	0	0	0	0.004	0.009	
5/15/2019 17:18			0	0	0	0	0	0.004	0.009	
5/15/2019 17:19			0	0	0	0	0	0.004	0.009	
5/15/2019 17:20	12.2	88.1	0	0	0	0	0	0.004	0.009	
5/15/2019 17:21			0	0	0	0	0	0.004	0.009	
5/15/2019 17:22			0	0	0	0	0	0.004	0.013	
5/15/2019 17:23			0	0	0	0	0	0.004	0.009	
5/15/2019 17:24			0	0	0	0	0	0.004	0.008	
5/15/2019 17:25	12.2	90.1	0	0	0	0	0	0.004	0.008	
5/15/2019 17:26			0	0	0	0	0	0.004	0.01	
5/15/2019 17:27			0	0	0	0	0	0.004	0.009	
5/15/2019 17:28			0	0	0	0	0	0.004	0.009	
5/15/2019 17:29			0	0	0	0	0	0.004	0.009	
5/15/2019 17:30	12.2	90.1	0	0	0	0	0	0.004	0.009	
5/15/2019 17:31			0	0	0	0	0	0.004	0.009	
5/15/2019 17:32			0	0	0	0	0	0.004	0.01	
5/15/2019 17:33			0	0	0	0	0	0.004	0.01	
5/15/2019 17:34			0	0	0	0	0	0.004	0.01	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/15/2019 17:35	12.2	90.1	0	0	0	0	0	0.004	0.009	
5/15/2019 17:36			0	0	0	0	0	0.004	0.009	
5/15/2019 17:37			0	0	0	0	0	0.004	0.01	
5/15/2019 17:38			0	0	0	0	0	0.004	0.009	
5/15/2019 17:39			0	0	0	0	0	0.004	0.009	
5/15/2019 17:40	12.2	90.1	0	0	0	0	0	0.004	0.009	
5/15/2019 17:41			0	0	0	0	0	0.004	0.009	
5/15/2019 17:42			0	0	0	0	0	0.005	0.009	
5/15/2019 17:43			0	0	0	0	0	0.005	0.009	
5/15/2019 17:44			0	0	0	0	0	0.005	0.01	
5/15/2019 17:45	12.2	91.1	0	0	0	0	0	0.005	0.01	
5/15/2019 17:46			0	0	0	0	0	0.005	0.009	
5/15/2019 17:47			0	0	0	0	0	0.005	0.01	
5/15/2019 17:48			0	0	0	0	0	0.005	0.009	
5/15/2019 17:49			0	0	0	0	0	0.005	0.009	
5/15/2019 17:50	12.2	90.1	0	0	0	0	0	0.005	0.009	
5/15/2019 17:51			0	0	0	0	0	0.005	0.009	
5/15/2019 17:52			0	0	0	0	0	0.005	0.01	
5/15/2019 17:53			0	0	0	0	0	0.005	0.01	
5/15/2019 17:54			0	0	0	0	0	0.005	0.009	
5/15/2019 17:55	12.2	89.1	0	0	0	0	0	0.005	0.011	
5/15/2019 17:56			0	0	0	0	0	0.005	0.01	
5/15/2019 17:57			0	0	0	0	0	0.005	0.01	
5/15/2019 17:58			0	0	0	0	0	0.005	0.01	
5/15/2019 17:59			0	0	0	0	0	0.005	0.01	
5/15/2019 18:00	12.2	91.1	0	0	0	0	0	0.005	0.009	
5/15/2019 18:01			0	0	0	0	0	0.005	0.009	
5/15/2019 18:02			0	0	0	0	0	0.005	0.009	
5/15/2019 18:03			0	0	0	0	0	0.005	0.009	
5/15/2019 18:04			0	0	0	0	0	0.005	0.009	
5/15/2019 18:05	12.2	90.1	0	0	0	0	0	0.005	0.009	
5/15/2019 18:06			0	0	0	0	0	0.005	0.009	
5/15/2019 18:07			0	0	0	0	0	0.005	0.009	
5/15/2019 18:08			0	0	0	0	0	0.005	0.009	
5/15/2019 18:09			0	0	0	0	0	0.005	0.009	
5/15/2019 18:10	12.2	89.1	0	0	0	0	0	0.005	0.01	
5/15/2019 18:11			0	0	0	0	0	0.005	0.009	
5/15/2019 18:12			0	0	0	0	0	0.005	0.009	
5/15/2019 18:13			0	0	0	0	0	0.005	0.009	
5/15/2019 18:14			0	0	0	0	0	0.005	0.009	
5/15/2019 18:15	12.2	91.1	0	0	0	0	0	0.005	0.009	
5/15/2019 18:16			0	0	0	0	0	0.005	0.009	
5/15/2019 18:17			0	0	0	0	0	0.005	0.009	
5/15/2019 18:18			0	0	0	0	0	0.005	0.009	
5/15/2019 18:19			0	0	0	0	0	0.005	0.01	
5/15/2019 18:20	12.2	90.1	0	0	0	0	0	0.005	0.009	
5/15/2019 18:21			0	0	0	0	0	0.005	0.01	
5/15/2019 18:22			0	0	0	0	0	0.005	0.009	
5/15/2019 18:23			0	0	0	0	0	0.005	0.009	
5/15/2019 18:24			0	0	0	0	0	0.005	0.009	
5/15/2019 18:25	12.2	89.1	0	0	0	0	0	0.005	0.01	
5/15/2019 18:26			0	0	0	0	0	0.005	0.009	
5/15/2019 18:27			0	0	0	0	0	0.005	0.01	
5/15/2019 18:28			0	0	0	0	0	0.005	0.01	
5/15/2019 18:29			0	0	0	0	0	0.005	0.01	
5/15/2019 18:30	12.2	89.1	0	0	0	0	0	0.005	0.009	
5/15/2019 18:31			0	0	0	0	0	0.005	0.009	
5/15/2019 18:32			0	0	0	0	0	0.005	0.009	
5/15/2019 18:33			0	0	0	0	0	0.006	0.01	
5/15/2019 18:34			0	0	0	0	0	0.006	0.01	
5/15/2019 18:35	12.2	89.1	0	0	0	0	0	0.006	0.009	
5/15/2019 18:36			0	0	0	0	0	0.006	0.009	
5/15/2019 18:37			0	0	0	0	0	0.006	0.009	
5/15/2019 18:38			0	0	0	0	0	0.006	0.009	
5/15/2019 18:39			0	0	0	0	0	0.006	0.011	
5/15/2019 18:40	12.2	89.1	0	0	0	0	0	0.006	0.01	
5/15/2019 18:41			0	0	0	0	0	0.006	0.009	
5/15/2019 18:42			0	0	0	0	0	0.006	0.009	
5/15/2019 18:43			0	0	0	0	0	0.006	0.01	
5/15/2019 18:44			0	0	0	0	0	0.006	0.009	
5/15/2019 18:45	12.2	90.1	0	0	0	0	0	0.006	0.009	
5/15/2019 18:46			0	0	0	0	0	0.006	0.009	
5/15/2019 18:47			0	0	0	0	0	0.006	0.009	
5/15/2019 18:48			0	0	0	0	0	0.006	0.009	
5/15/2019 18:49			0	0	0	0	0	0.006	0.009	
5/15/2019 18:50	12.2	90.1	0	0	0	0	0	0.006	0.009	
5/15/2019 18:51			0	0	0	0	0	0.006	0.009	
5/15/2019 18:52			0	0	0	0	0	0.006	0.009	
5/15/2019 18:53			0	0	0	0	0	0.006	0.009	
5/15/2019 18:54			0	0	0	0	0	0.006	0.009	
5/15/2019 18:55	12.2	90.1	0	0	0	0	0	0.006	0.009	
5/15/2019 18:56			0	0	0	0	0	0.006	0.01	
5/15/2019 18:57			0	0	0	0	0	0.006	0.009	
5/15/2019 18:58			0	0	0	0	0	0.006	0.009	
5/15/2019 18:59			0	0	0	0	0	0.006	0.009	
5/15/2019 19:00	12.2	89.1	0	0	0	0	0	0.006	0.009	
5/15/2019 19:01			0	0	0	0	0	0.006	0.009	
5/15/2019 19:02			0	0	0	0	0	0.006	0.009	
5/15/2019 19:03			0	0	0	0	0	0.006	0.009	
5/15/2019 19:04			0	0	0	0	0	0.006	0.009	
5/15/2019 19:05	12.2	89.1	0	0	0	0	0	0.006	0.009	
5/15/2019 19:06			0	0	0	0	0	0.006	0.009	
5/15/2019 19:07			0	0	0	0	0	0.006	0.009	
5/15/2019 19:08			0	0	0	0	0	0.006	0.011	
5/15/2019 19:09			0	0	0	0	0	0.006	0.009	
5/15/2019 19:10	12.2	91.1	0	0	0	0	0	0.006	0.009	
5/15/2019 19:11			0	0	0	0	0	0.006	0.009	
5/15/2019 19:12			0	0	0	0	0	0.006	0.009	
5/15/2019 19:13			0	0	0	0	0	0.006	0.01	
5/15/2019 19:14			0	0	0	0	0	0.006	0.009	
5/15/2019 19:15	12.2	89.1	0	0	0	0	0	0.006	0.009	
5/15/2019 19:16			0	0	0	0	0	0.006	0.01	
5/15/2019 19:17			0	0	0	0	0	0.006	0.009	
5/15/2019 19:18			0	0	0	0	0	0.006	0.011	
5/15/2019 19:19			0	0	0	0	0	0.006	0.01	
5/15/2019 19:20	12.2	91.1	0	0	0	0	0	0.006	0.009	
5/15/2019 19:21			0	0	0	0	0	0.006	0.009	
5/15/2019 19:22			0	0	0	0	0	0.006	0.009	
5/15/2019 19:23			0	0	0	0	0	0.006	0.009	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/15/2019 19:24			0	0	0	0	0	0.007	0.009	
5/15/2019 19:25	12.1	91.1	0	0	0	0	0	0.007	0.009	
5/15/2019 19:26			0	0	0	0	0	0.007	0.009	
5/15/2019 19:27			0	0	0	0	0	0.007	0.009	
5/15/2019 19:28			0	0	0	0	0	0.007	0.009	
5/15/2019 19:29			0	0	0	0	0	0.007	0.009	
5/15/2019 19:30	12.1	91.1	0	0	0	0	0	0.007	0.01	
5/15/2019 19:31			0	0	0	0	0	0.007	0.009	
5/15/2019 19:32			0	0	0	0	0	0.007	0.009	
5/15/2019 19:33			0	0	0	0	0	0.007	0.01	
5/15/2019 19:34			0	0	0	0	0	0.007	0.01	
5/15/2019 19:35	12.1	90.1	0	0	0	0	0	0.007	0.009	
5/15/2019 19:36			0	0	0	0	0	0.007	0.009	
5/15/2019 19:37			0	0	0	0	0	0.007	0.009	
5/15/2019 19:38			0	0	0	0	0	0.007	0.01	
5/15/2019 19:39			0	0	0	0	0	0.007	0.009	
5/15/2019 19:40	12.1	90.1	0	0	0	0	0	0.007	0.009	
5/15/2019 19:41			0	0	0	0	0	0.007	0.011	
5/15/2019 19:42			0	0	0	0	0	0.007	0.009	
5/15/2019 19:43			0	0	0	0	0	0.007	0.009	
5/15/2019 19:44			0	0	0	0	0	0.007	0.01	
5/15/2019 19:45	12.1	89.1	0	0	0	0	0	0.007	0.009	
5/15/2019 19:46			0	0	0	0	0	0.007	0.012	
5/15/2019 19:47			0	0	0	0	0	0.007	0.01	
5/15/2019 19:48			0	0	0	0	0	0.007	0.009	
5/15/2019 19:49			0	0	0	0	0	0.007	0.011	
5/15/2019 19:50	12.1	91.1	0	0	0	0	0	0.007	0.021	
5/15/2019 19:51			0	0	0	0	0	0.007	0.013	
5/15/2019 19:52			0	0	0	0	0	0.007	0.017	
5/15/2019 19:53			0	0	0	0	0	0.007	0.013	
5/15/2019 19:54			0	0	0	0	0	0.007	0.011	
5/15/2019 19:55	12.1	90.1	0	0	0	0	0	0.007	0.012	
5/15/2019 19:56			0	0	0	0	0	0.007	0.017	
5/15/2019 19:57			0	0	0	0	0	0.007	0.013	
5/15/2019 19:58			0	0	0	0	0	0.007	0.011	
5/15/2019 19:59			0	0	0	0	0	0.007	0.012	
5/15/2019 20:00	12.1	91.1	0	0	0	0	0	0.007	0.01	
5/15/2019 20:01			0	0	0	0	0	0.007	0.01	
5/15/2019 20:02			0	0	0	0	0	0.007	0.009	
5/15/2019 20:03			0	0	0	0	0	0.007	0.009	
5/15/2019 20:04			0	0	0	0	0	0.007	0.009	
5/15/2019 20:05	12.1	89.1	0	0	0	0	0	0.007	0.009	
5/15/2019 20:06			0	0	0	0	0	0.007	0.009	
5/15/2019 20:07			0	0	0	0	0	0.007	0.009	
5/15/2019 20:08			0	0	0	0	0	0.007	0.009	
5/15/2019 20:09			0	0	0	0	0	0.007	0.009	
5/15/2019 20:10	12.1	90.1	0	0	0	0	0	0.008	0.009	
5/15/2019 20:11			0	0	0	0	0	0.008	0.009	
5/15/2019 20:12			0	0	0	0	0	0.008	0.012	
5/15/2019 20:13			0	0	0	0	0	0.008	0.023	
5/15/2019 20:14			0	0	0	0	0	0.008	0.014	
5/15/2019 20:15	12.1	91.1	0	0	0	0	0	0.008	0.009	
5/15/2019 20:16			0	0	0	0	0	0.008	0.009	
5/15/2019 20:17			0	0	0	0	0	0.008	0.01	
5/15/2019 20:18			0	0	0	0	0	0.008	0.009	
5/15/2019 20:19			0	0	0	0	0	0.008	0.009	
5/15/2019 20:20	12.1	90.1	0	0	0	0	0	0.008	0.009	
5/15/2019 20:21			0	0	0	0	0	0.008	0.014	
5/15/2019 20:22			0	0	0	0	0	0.008	0.015	
5/15/2019 20:23			0	0	0	0	0	0.008	0.009	
5/15/2019 20:24			0	0	0	0	0	0.008	0.008	
5/15/2019 20:25	12.1	90.1	0	0	0	0	0	0.008	0.009	
5/15/2019 20:26			0	0	0	0	0	0.008	0.008	
5/15/2019 20:27			0	0	0	0	0	0.008	0.021	
5/15/2019 20:28			0	0	0	0	0	0.008	0.008	
5/15/2019 20:29			0	0	0	0	0	0.008	0.007	
5/15/2019 20:30	12.1	89.1	0	0	0	0	0	0.008	0.008	
5/15/2019 20:31			0	0	0	0	0	0.008	0.007	
5/15/2019 20:32			0	0	0	0	0	0.008	0.008	
5/15/2019 20:33			0	0	0	0	0	0.008	0.008	
5/15/2019 20:34			0	0	0	0	0	0.008	0.008	
5/15/2019 20:35	12.1	89.1	0	0	0	0	0	0.008	0.008	
5/15/2019 20:36			0	0	0	0	0	0.008	0.008	
5/15/2019 20:37			0	0	0	0	0	0.008	0.008	
5/15/2019 20:38			0	0	0	0	0	0.008	0.008	
5/15/2019 20:39			0	0	0	0	0	0.008	0.008	
5/15/2019 20:40	12.1	90.1	0	0	0	0	0	0.008	0.008	
5/15/2019 20:41			0	0	0	0	0	0.008	0.008	
5/15/2019 20:42			0	0	0	0	0	0.008	0.008	
5/15/2019 20:43			0	0	0	0	0	0.008	0.008	
5/15/2019 20:44			0	0	0	0	0	0.008	0.009	
5/15/2019 20:45	12.1	91.1	0	0	0	0	0	0.008	0.008	
5/15/2019 20:46			0	0	0	0	0	0.008	0.009	
5/15/2019 20:47			0	0	0	0	0	0.008	0.009	
5/15/2019 20:48			0	0	0	0	0	0.008	0.008	
5/15/2019 20:49			0	0	0	0	0	0.008	0.009	
5/15/2019 20:50	12.1	91.1	0	0	0	0	0	0.008	0.008	
5/15/2019 20:51			0	0	0	0	0	0.008	0.009	
5/16/2019 11:53	12.7	119.4								
5/16/2019 11:54			0	0	0	0	0			
5/16/2019 11:55	12.6	98.2	0	0	0	0	0	0	0.016	42.43087;-76.49814
5/16/2019 11:56			0	0	0	0	0	0	0.019	
5/16/2019 11:57			0	0	0	0	0	0	0.019	
5/16/2019 11:58			0	0	0	0	0	0	0.02	
5/16/2019 11:59			0	0	0	0	0	0	0.021	
5/16/2019 12:00	12.5	103.2	0	0	0	0	0	0	0.02	
5/16/2019 12:00										42.43085;-76.4981
5/16/2019 12:01			0	0	0	0	0	0	0.02	
5/16/2019 12:02			0	0	0	0	0	0	0.019	
5/16/2019 12:03			0	0	0	0	0	0	0.019	
5/16/2019 12:04			0	0	0	0	0	0	0.02	
5/16/2019 12:05	12.5	114.4	0	0	0	0	0	0	0.02	
5/16/2019 12:05										42.4309;-76.49809
5/16/2019 12:06			0	0	0	0	0	0	0.021	
5/16/2019 12:07			0	0	0	0	0	0	0.021	
5/16/2019 12:08			0	0	0	0	0	0	0.021	
5/16/2019 12:09			0	0	0	0	0	0	0.02	
5/16/2019 12:10	12.5	96.2	0	0	0	0	0	0.001	0.02	42.43092;-76.49815
5/16/2019 12:11			0	0	0	0	0	0.001	0.02	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/16/2019 12:12			0	0	0	0	0	0.001	0.02	
5/16/2019 12:13			0	0	0	0	0	0.001	0.02	
5/16/2019 12:14			0	0	0	0	0	0.001	0.021	
5/16/2019 12:15	12.5	98.2	0	0	0	0	0	0.001	0.021	42.43091;-76.49812
5/16/2019 12:16			0	0	0	0	0	0.001	0.021	
5/16/2019 12:17			0	0	0	0	0	0.001	0.021	
5/16/2019 12:18			0	0	0	0	0	0.001	0.02	
5/16/2019 12:19			0	0	0	0	0	0.001	0.019	
5/16/2019 12:20	12.5	101.2	0	0	0	0	0	0.001	0.019	42.43084;-76.49804
5/16/2019 12:21			0	0	0	0	0	0.001	0.019	
5/16/2019 12:22			0	0	0	0	0	0.001	0.019	
5/16/2019 12:23			0	0	0	0	0	0.001	0.019	
5/16/2019 12:24			0	0	0	0	0	0.001	0.018	
5/16/2019 12:25	12.5	109.3	0	0	0	0	0	0.001	0.017	42.43086;-76.49805
5/16/2019 12:26			0	0	0	0	0	0.001	0.017	
5/16/2019 12:27			0	0	0	0	0	0.001	0.017	
5/16/2019 12:28			0	0	0	0	0	0.001	0.017	
5/16/2019 12:29			0	0	0	0	0	0.001	0.017	
5/16/2019 12:30	12.5	102.2	0	0	0	0	0	0.001	0.02	42.43093;-76.49812
5/16/2019 12:31			0	0	0	0	0	0.001	0.016	
5/16/2019 12:32			0	0	0	0	0	0.001	0.016	
5/16/2019 12:33			0	0	0	0	0	0.002	0.015	
5/16/2019 12:34			0	0	0	0	0	0.002	0.015	
5/16/2019 12:35	12.5	97.2	0	0	0	0	0	0.002	0.014	42.43094;-76.49812
5/16/2019 12:36			0	0	0	0	0	0.002	0.015	
5/16/2019 12:37			0	0	0	0	0	0.002	0.014	
5/16/2019 12:38			0	0	0	0	0	0.002	0.015	
5/16/2019 12:39			0	0	0	0	0	0.002	0.015	
5/16/2019 12:40	12.5	105.3	0	0	0	0	0	0.002	0.015	42.43089;-76.49812
5/16/2019 12:41			0	0	0	0	0	0.002	0.014	
5/16/2019 12:42			0	0	0	0	0	0.002	0.014	
5/16/2019 12:43			0	0	0	0	0	0.002	0.014	
5/16/2019 12:44			0	0	0	0	0	0.002	0.015	
5/16/2019 12:45	12.5	98.2	0	0	0	0	0	0.002	0.015	42.43092;-76.49816
5/16/2019 12:46			0	0	0	0	0	0.002	0.015	
5/16/2019 12:47			0	0	0	0	0	0.002	0.016	
5/16/2019 12:48			0	0	0	0	0	0.002	0.016	
5/16/2019 12:49			0	0	0	0	0	0.002	0.016	
5/16/2019 12:50	12.5	98.2	0	0	0	0	0	0.002	0.016	42.43093;-76.49818
5/16/2019 12:51			0	0	0	0	0	0.002	0.017	
5/16/2019 12:52			0	0	0	0	0	0.002	0.017	
5/16/2019 12:53			0	0	0	0	0	0.002	0.016	
5/16/2019 12:54			0	0	0	0	0	0.002	0.016	
5/16/2019 12:55	12.5	99.2	0	0	0	0	0	0.002	0.019	42.43079;-76.4982
5/16/2019 12:56			0	0	0	0	0	0.002	0.016	
5/16/2019 12:57			0	0	0	0	0	0.002	0.018	
5/16/2019 12:58			0	0	0	0	0	0.002	0.025	
5/16/2019 12:59			0	0	0	0	0	0.002	0.017	
5/16/2019 13:00	12.5	106.3	0	0	0	0	0	0.002	0.015	42.43089;-76.49821
5/16/2019 13:01			0	0	0	0	0	0.002	0.015	
5/16/2019 13:02			0	0	0	0	0	0.002	0.016	
5/16/2019 13:03			0	0	0	0	0	0.003	0.016	
5/16/2019 13:04			0	0	0	0	0	0.003	0.021	
5/16/2019 13:05	12.5	99.2	0	0	0	0	0	0.003	0.019	42.43092;-76.49821
5/16/2019 13:06			0	0	0	0	0	0.003	0.023	
5/16/2019 13:07			0	0	0	0	0	0.003	0.024	
5/16/2019 13:08			0	0	0	0	0	0.003	0.02	
5/16/2019 13:09			0	0	0	0	0	0.003	0.018	
5/16/2019 13:10	12.5	98.2	0	0	0	0	0	0.003	0.017	42.4309;-76.49818
5/16/2019 13:11			0	0	0	0	0	0.003	0.018	
5/16/2019 13:12			0	0	0	0	0	0.003	0.017	
5/16/2019 13:13			0	0	0	0	0	0.003	0.019	
5/16/2019 13:14			0	0	0	0	0	0.003	0.017	
5/16/2019 13:15	12.5	104.3	0	0	0	0	0	0.003	0.017	42.43076;-76.4982
5/16/2019 13:16			0	0	0	0	0	0.003	0.017	
5/16/2019 13:17			0	0	0	0	0	0.003	0.017	
5/16/2019 13:18			0	0	0	0	0	0.003	0.017	
5/16/2019 13:19			0	0	0	0	0	0.003	0.018	
5/16/2019 13:20	12.5	97.2	0	0	0	0	0	0.003	0.018	42.43091;-76.49815
5/16/2019 13:21			0	0	0	0	0	0.003	0.018	
5/16/2019 13:22			0	0	0	0	0	0.003	0.018	
5/16/2019 13:23			0	0	0	0	0	0.003	0.018	
5/16/2019 13:24			0	0	0	0	0	0.003	0.018	
5/16/2019 13:25	12.4	107.3	0	0	0	0	0	0.003	0.019	42.43085;-76.49819
5/16/2019 13:26			0	0	0	0	0	0.003	0.02	
5/16/2019 13:27			0	0	0	0	0	0.003	0.02	
5/16/2019 13:28			0	0	0	0	0	0.003	0.022	
5/16/2019 13:29			0	0	0	0	0	0.004	0.021	
5/16/2019 13:30	12.5	97.2	0	0	0	0	0	0.004	0.02	42.43087;-76.49821
5/16/2019 13:31			0	0	0	0	0	0.004	0.02	
5/16/2019 13:32			0	0	0	0	0	0.004	0.021	
5/16/2019 13:33			0	0	0	0	0	0.004	0.02	
5/16/2019 13:34			0	0	0	0	0	0.004	0.021	
5/16/2019 13:35	12.4	102.2	0	0	0	0	0	0.004	0.024	42.43087;-76.49828
5/16/2019 13:36			0	0	0	0	0	0.004	0.028	
5/16/2019 13:37			0	0	0	0	0	0.004	0.023	
5/16/2019 13:38			0	0	0	0	0	0.004	0.023	
5/16/2019 13:39			0	0	0	0	0	0.004	0.023	
5/16/2019 13:40	12.5	101.2	0	0	0	0	0	0.004	0.024	42.43085;-76.49821
5/16/2019 13:41			0	0	0	0	0	0.004	0.022	
5/16/2019 13:42			0	0	0	0	0	0.004	0.023	
5/16/2019 13:43			0	0	0	0	0	0.004	0.023	
5/16/2019 13:44			0	0	0	0	0	0.004	0.024	
5/16/2019 13:45	12.4	99.2	0	0	0	0	0	0.004	0.024	42.431;-76.49821
5/16/2019 13:46			0	0	0	0	0	0.004	0.022	
5/16/2019 13:47			0	0	0	0	0	0.004	0.024	
5/16/2019 13:48			0	0	0	0	0	0.004	0.026	
5/16/2019 13:49			0	0	0	0	0	0.004	0.025	
5/16/2019 13:50	12.4	105.3	0	0	0	0	0	0.005	0.026	42.43095;-76.49822
5/16/2019 13:51			0	0	0	0	0	0.005	0.023	
5/16/2019 13:52			0	0	0	0	0	0.005	0.023	
5/16/2019 13:53			0	0.005	0	0	0	0.005	0.025	
5/16/2019 13:54			0	0.005	0	0	0	0.005	0.024	
5/16/2019 13:55	12.4	107.3	0	0.005	0	0	0	0.005	0.023	42.43093;-76.49821
5/16/2019 13:56			0	0.005	0	0	0	0.005	0.024	
5/16/2019 13:57			0	0.005	0	0	0	0.005	0.023	
5/16/2019 13:58			0	0.005	0	0	0.005	0.005	0.022	
5/16/2019 13:59			0	0.005	0	0	0	0.005	0.022	
5/16/2019 14:00	12.4	98.2	0	0.01	0	0	0	0.005	0.022	42.43082;-76.49812

Community Air Monitoring Program - Downwind Station
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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/16/2019 14:01			0	0.01	0	0	0	0.005	0.022	
5/16/2019 14:02			0	0.01	0	0	0.001	0.005	0.022	
5/16/2019 14:03			0	0.01	0	0	0	0.005	0.022	
5/16/2019 14:04			0	0.013	0	0	0	0.005	0.022	
5/16/2019 14:05	12.4	106.3	0	0.013	0	0	0	0.005	0.022	42.4309;-76.49812
5/16/2019 14:06			0	0.013	0	0	0	0.005	0.023	
5/16/2019 14:07			0	0.013	0	0	0	0.005	0.022	
5/16/2019 14:08			0	0.013	0	0	0	0.005	0.021	
5/16/2019 14:09			0	0.013	0	0	0.001	0.005	0.024	
5/16/2019 14:10	12.4	98.2	0	0.013	0	0	0	0.005	0.026	42.43086;-76.49814
5/16/2019 14:11			0	0.027	0	0	0	0.006	0.035	
5/16/2019 14:12			0	0.027	0	0	0.016	0.006	0.024	
5/16/2019 14:13			0	0.027	0	0	0	0.006	0.022	
5/16/2019 14:14			0	0.035	0	0	0.001	0.006	0.021	
5/16/2019 14:15	12.4	109.3	0	0.035	0	0	0.018	0.006	0.021	42.43086;-76.49812
5/16/2019 14:16			0	0.035	0.001	0	0.002	0.006	0.021	
5/16/2019 14:17			0	0.035	0.001	0	0	0.006	0.022	
5/16/2019 14:18			0	0.036	0.001	0	0.003	0.006	0.021	
5/16/2019 14:19			0	0.036	0.002	0	0	0.006	0.022	
5/16/2019 14:20	12.4	99.2	0	0.036	0.002	0	0.014	0.006	0.022	42.43087;-76.49809
5/16/2019 14:21			0	0.036	0.003	0	0.001	0.006	0.022	
5/16/2019 14:22			0	0.041	0.003	0	0.019	0.006	0.022	
5/16/2019 14:23			0	0.041	0.004	0	0.015	0.006	0.022	
5/16/2019 14:24			0	0.041	0.005	0	0.013	0.006	0.021	
5/16/2019 14:25	12.4	97.2	0	0.051	0.006	0	0.029	0.006	0.023	42.43084;-76.4981
5/16/2019 14:26			0	0.051	0.007	0	0.007	0.006	0.022	
5/16/2019 14:27			0	0.051	0.008	0	0.018	0.006	0.022	
5/16/2019 14:28			0	0.051	0.009	0	0.037	0.006	0.027	
5/16/2019 14:29			0	0.052	0.01	0	0.024	0.006	0.022	
5/16/2019 14:30	12.4	99.2	0	0.052	0.012	0	0.031	0.006	0.025	42.43084;-76.49812
5/16/2019 14:31			0	0.052	0.013	0	0.029	0.007	0.032	
5/16/2019 14:32			0	0.052	0.014	0	0.024	0.007	0.033	
5/16/2019 14:33			0	0.052	0.015	0	0.029	0.007	0.028	
5/16/2019 14:34			0	0.052	0.017	0	0.014	0.007	0.022	
5/16/2019 14:35	12.4	100.2	0	0.052	0.018	0	0.027	0.007	0.021	42.43085;-76.49812
5/16/2019 14:36			0	0.204	0.019	0	0.043	0.007	0.022	
5/16/2019 14:37			0	0.204	0.022	0	0.032	0.007	0.021	
5/16/2019 14:38			0	0.204	0.023	0	0.045	0.007	0.021	
5/16/2019 14:39			0	0.204	0.025	0	0.035	0.007	0.021	
5/16/2019 14:40	12.4	103.2	0	0.204	0.026	0.001	0.047	0.007	0.021	42.43089;-76.49813
5/16/2019 14:41			0	0.204	0.027	0.001	0.023	0.007	0.021	
5/16/2019 14:42			0	0.204	0.028	0.001	0.025	0.007	0.021	
5/16/2019 14:43			0	0.204	0.029	0.001	0.041	0.007	0.021	
5/16/2019 14:44			0	0.204	0.03	0.001	0.038	0.007	0.021	
5/16/2019 14:45	12.4	100.2	0	0.204	0.03	0.001	0.027	0.007	0.021	42.4308;-76.49809
5/16/2019 14:46			0	0.204	0.031	0.001	0.048	0.007	0.022	
5/16/2019 14:47			0	0.204	0.031	0.001	0.054	0.007	0.021	
5/16/2019 14:48			0	0.204	0.033	0.001	0.045	0.007	0.022	
5/16/2019 14:49			0	0.204	0.034	0.001	0.087	0.007	0.024	
5/16/2019 14:50	12.4	106.3	0	0.204	0.038	0.001	0.041	0.007	0.022	42.4308;-76.49806
5/16/2019 14:51			0	0.204	0.039	0.001	0.06	0.007	0.022	
5/16/2019 14:52			0	0.204	0.04	0.002	0.072	0.007	0.021	
5/16/2019 14:53			0	0.204	0.041	0.002	0.064	0.008	0.021	
5/16/2019 14:54			0	0.204	0.044	0.002	0.064	0.008	0.021	
5/16/2019 14:55	12.4	109.3	0	0.204	0.045	0.002	0.035	0.008	0.02	42.43084;-76.4981
5/16/2019 14:56			0	0.204	0.047	0.002	0.072	0.008	0.021	
5/16/2019 14:57			0	0.204	0.05	0.002	0.061	0.008	0.021	
5/16/2019 14:58			0	0.204	0.051	0.002	0.053	0.008	0.021	
5/16/2019 14:59			0	0.204	0.054	0.002	0.062	0.008	0.021	
5/16/2019 15:00	12.4	108.3	0	0.204	0.056	0.003	0.061	0.008	0.021	42.43084;-76.49809
5/16/2019 15:01			0	0.204	0.058	0.003	0.069	0.008	0.021	
5/16/2019 15:02			0	0.204	0.059	0.003	0.056	0.008	0.02	
5/16/2019 15:03			0	0.204	0.06	0.003	0.061	0.008	0.021	
5/16/2019 15:04			0	0.204	0.062	0.003	0.062	0.008	0.022	
5/16/2019 15:05	12.4	99.2	0	0.204	0.061	0.003	0.065	0.008	0.021	42.43086;-76.49809
5/16/2019 15:06			0	0.204	0.061	0.003	0.067	0.008	0.021	
5/16/2019 15:07			0	0.204	0.062	0.004	0.087	0.008	0.022	
5/16/2019 15:08			0	0.204	0.064	0.004	0.082	0.008	0.022	
5/16/2019 15:09			0	0.204	0.064	0.004	0.072	0.008	0.021	
5/16/2019 15:10	12.3	100.2	0	0.204	0.065	0.004	0.074	0.008	0.021	42.43087;-76.4981
5/16/2019 15:11			0	0.204	0.066	0.004	0.075	0.008	0.021	
5/16/2019 15:12			0	0.204	0.067	0.004	0.081	0.008	0.021	
5/16/2019 15:13			0	0.204	0.068	0.004	0.088	0.008	0.021	
5/16/2019 15:14			0	0.204	0.068	0.005	0.078	0.008	0.021	
5/16/2019 15:15	12.4	106.3	0	0.204	0.069	0.005	0.085	0.009	0.022	42.43091;-76.49811
5/16/2019 15:16			0	0.204	0.07	0.005	0.082	0.009	0.021	
5/16/2019 15:17			0	0.204	0.071	0.005	0.054	0.009	0.022	
5/16/2019 15:18			0	0.204	0.071	0.005	0.086	0.009	0.02	
5/16/2019 15:19			0	0.204	0.071	0.005	0.07	0.009	0.02	
5/16/2019 15:20	12.3	99.2	0	0.204	0.071	0.006	0.078	0.009	0.02	42.4309;-76.49812
5/16/2019 15:21			0	0.204	0.071	0.006	0.073	0.009	0.02	
5/16/2019 15:22			0	0.204	0.071	0.006	0.068	0.009	0.02	
5/16/2019 15:23			0	0.204	0.071	0.006	0.07	0.009	0.02	
5/16/2019 15:24			0	0.204	0.071	0.006	0.052	0.009	0.02	
5/16/2019 15:25	12.4	115.4	0	0.204	0.071	0.006	0.057	0.009	0.02	42.43092;-76.49814
5/16/2019 15:26			0	0.204	0.07	0.006	0.07	0.009	0.02	
5/16/2019 15:27			0	0.204	0.069	0.006	0.057	0.009	0.022	
5/16/2019 15:28			0	0.204	0.069	0.007	0.075	0.009	0.022	
5/16/2019 15:29			0	0.204	0.069	0.007	0.07	0.009	0.021	
5/16/2019 15:30	12.3	100.2	0	0.204	0.068	0.007	0.075	0.009	0.022	42.43086;-76.49812
5/16/2019 15:31			0	0.204	0.068	0.007	0.08	0.009	0.024	
5/16/2019 15:32			0	0.204	0.068	0.007	0.074	0.009	0.021	
5/16/2019 15:33			0	0.204	0.067	0.007	0.079	0.009	0.02	
5/16/2019 15:34			0	0.204	0.068	0.007	0.072	0.009	0.02	
5/16/2019 15:35	12.3	105.3	0	0.204	0.068	0.008	0.071	0.009	0.019	42.43083;-76.4981
5/16/2019 15:36			0	0.204	0.068	0.008	0.07	0.009	0.019	
5/16/2019 15:37			0	0.204	0.068	0.008	0.08	0.009	0.019	
5/16/2019 15:38			0	0.204	0.068	0.008	0.054	0.009	0.019	
5/16/2019 15:39			0	0.204	0.068	0.008	0.083	0.01	0.019	
5/16/2019 15:40	12.3	101.2	0	0.204	0.069	0.008	0.085	0.01	0.025	42.43087;-76.49815
5/16/2019 15:41			0	0.204	0.069	0.009	0.07	0.01	0.022	
5/16/2019 15:42			0	0.204	0.07	0.009	0.088	0.01	0.02	
5/16/2019 15:43			0	0.204	0.071	0.009	0.068	0.01	0.02	
5/16/2019 15:44			0	0.204	0.072	0.009	0.085	0.01	0.019	
5/16/2019 15:45	12.3	100.2	0	0.204	0.073	0.009	0.079	0.01	0.02	42.4309;-76.49818
5/16/2019 15:46			0	0.204	0.073	0.009	0.062	0.01	0.043	
5/16/2019 15:47			0	0.204	0.073	0.01	0.066	0.01	0.023	
5/16/2019 15:48			0	0.204	0.074	0.01	0.076	0.01	0.019	
5/16/2019 15:49			0	0.204	0.074	0.01	0.081	0.01	0.019	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/16/2019 15:50	12.3	99.2	0	0.204	0.075	0.01	0.073	0.01	0.021	42.43092;-76.49816
5/16/2019 15:51			0	0.204	0.076	0.01	0.072	0.01	0.021	
5/16/2019 15:52			0	0.204	0.077	0.01	0.081	0.01	0.02	
5/16/2019 15:53			0	0.204	0.077	0.011	0.082	0.01	0.02	
5/16/2019 15:54			0	0.204	0.079	0.011	0.072	0.01	0.019	
5/16/2019 15:55	12.3	101.2	0	0.204	0.079	0.011	0.087	0.01	0.021	42.43091;-76.49816
5/16/2019 15:56			0	0.204	0.08	0.011	0.079	0.01	0.033	
5/16/2019 15:57			0	0.204	0.081	0.011	0.1	0.01	0.022	
5/16/2019 15:58			0	0.204	0.082	0.011	0.078	0.01	0.019	
5/16/2019 15:59			0	0.204	0.082	0.012	0.06	0.01	0.019	
5/16/2019 16:00	12.3	108.3	0	0.204	0.082	0.012	0.085	0.01	0.02	42.43091;-76.49817
5/16/2019 16:01			0	0.204	0.083	0.012	0.107	0.011	0.02	
5/16/2019 16:02			0	0.204	0.084	0.012	0.101	0.011	0.019	
5/16/2019 16:03			0	0.204	0.085	0.012	0.096	0.011	0.019	
5/16/2019 16:04			0	0.204	0.087	0.013	0.092	0.011	0.02	
5/16/2019 16:05	12.3	106.3	0	0.204	0.087	0.013	0.096	0.011	0.019	42.43092;-76.49817
5/16/2019 16:06			0	0.204	0.088	0.013	0.084	0.011	0.019	
5/16/2019 16:07			0	0.204	0.088	0.013	0.076	0.011	0.018	
5/16/2019 16:08			0	0.204	0.088	0.013	0.091	0.011	0.019	
5/16/2019 16:09			0	0.204	0.088	0.013	0.099	0.011	0.022	
5/16/2019 16:10	12.3	105.3	0	0.204	0.089	0.014	0.098	0.011	0.02	42.43094;-76.49818
5/16/2019 16:11			0	0.204	0.089	0.014	0.085	0.011	0.019	
5/16/2019 16:12			0	0.204	0.089	0.014	0.095	0.011	0.018	
5/16/2019 16:13			0	0.204	0.09	0.014	0.083	0.011	0.018	
5/16/2019 16:14			0	0.204	0.09	0.014	0.093	0.011	0.02	
5/16/2019 16:15	12.4	111.3	0	0.204	0.09	0.015	0.084	0.011	0.02	42.43094;-76.49815
5/16/2019 16:16			0	0.204	0.09	0.015	0.093	0.011	0.141	
5/16/2019 16:17			0	0.204	0.09	0.015	0.089	0.012	0.252	
5/16/2019 16:18			0	0.204	0.089	0.015	0.083	0.012	0.141	
5/16/2019 16:19			0	0.204	0.089	0.015	0.091	0.012	0.019	
5/16/2019 16:20	12.4	101.2	0	0.204	0.089	0.016	0.091	0.012	0.019	42.43083;-76.49809
5/16/2019 16:21			0	0.204	0.088	0.016	0.08	0.012	0.018	
5/16/2019 16:22			0	0.204	0.088	0.016	0.082	0.012	0.018	
5/16/2019 16:23			0	0.204	0.088	0.016	0.098	0.012	0.021	
5/16/2019 16:24			0	0.204	0.089	0.016	0.086	0.012	0.019	
5/16/2019 16:25	12.4	102.2	0	0.204	0.089	0.016	0.084	0.012	0.018	42.43086;-76.49811
5/16/2019 16:26			0	0.204	0.088	0.017	0.084	0.013	0.018	
5/16/2019 16:27			0	0.204	0.088	0.017	0.075	0.013	0.018	
5/16/2019 16:28			0	0.204	0.087	0.017	0.078	0.013	0.018	
5/16/2019 16:29			0	0.204	0.087	0.017	0.082	0.013	0.018	
5/16/2019 16:30	12.3	102.2	0	0.204	0.086	0.017	0.077	0.013	0.019	42.43089;-76.49812
5/16/2019 16:31			0	0.204	0.085	0.017	0.079	0.013	0.018	
5/16/2019 16:32			0	0.204	0.085	0.018	0.075	0.013	0.019	
5/16/2019 16:33			0	0.204	0.085	0.018	0.076	0.013	0.018	
5/16/2019 16:34			0	0.204	0.084	0.018	0.083	0.013	0.017	
5/16/2019 16:35	12.4	105.3	0	0.204	0.084	0.018	0.081	0.013	0.017	42.43085;-76.4981
5/16/2019 16:36			0	0.204	0.084	0.018	0.075	0.013	0.017	
5/16/2019 16:37			0	0.204	0.083	0.018	0.087	0.013	0.044	
5/16/2019 16:38			0	0.204	0.083	0.019	0.084	0.013	0.02	
5/16/2019 16:39			0	0.204	0.082	0.019	0.079	0.013	0.018	
5/16/2019 16:40	12.3	99.2	0	0.204	0.082	0.019	0.07	0.013	0.018	42.43083;-76.49815
5/16/2019 16:41			0	0.204	0.081	0.019	0.079	0.013	0.017	
5/16/2019 16:42			0	0.204	0.081	0.019	0.086	0.013	0.018	
5/16/2019 16:43			0	0.204	0.081	0.02	0.091	0.013	0.017	
5/16/2019 16:44			0	0.204	0.081	0.02	0.071	0.013	0.016	
5/16/2019 16:45	12.3	103.2	0	0.204	0.081	0.02	0.075	0.013	0.015	42.43084;-76.49815
5/16/2019 16:46			0	0.204	0.081	0.02	0.075	0.013	0.015	
5/16/2019 16:47			0	0.204	0.08	0.02	0.079	0.013	0.015	
5/16/2019 16:48			0	0.204	0.08	0.02	0.088	0.013	0.015	
5/16/2019 16:49			0	0.204	0.08	0.021	0.084	0.013	0.02	
5/16/2019 16:50	12.4	127.5	0	0.204	0.08	0.021	0.072	0.013	0.03	42.43081;-76.49815
5/16/2019 16:51			0	0.204	0.079	0.021	0.081	0.014	0.014	
5/16/2019 16:52			0	0.204	0.079	0.021	0.082	0.014	0.014	
5/16/2019 16:53			0	0.204	0.078	0.021	0.078	0.014	0.013	
5/16/2019 16:54			0	0.204	0.078	0.021	0.081	0.014	0.02	
5/16/2019 16:55	12.3	101.2	0	0.204	0.077	0.021	0.082	0.014	0.016	42.43081;-76.49808
5/16/2019 16:56			0	0.204	0.077	0.022	0.078	0.014	0.015	
5/16/2019 16:57			0	0.204	0.077	0.022	0.066	0.014	0.015	
5/16/2019 16:58			0	0.204	0.076	0.022	0.072	0.014	0.014	
5/16/2019 16:59			0	0.204	0.075	0.022	0.073	0.014	0.015	
5/16/2019 17:00	12.3	124.5	0	0.204	0.075	0.022	0.075	0.014	0.015	
5/16/2019 17:00										42.43081;-76.49812
5/16/2019 17:01			0	0.204	0.074	0.022	0.071	0.014	0.016	
5/16/2019 17:02			0	0.204	0.074	0.023	0.079	0.014	0.015	
5/16/2019 17:03			0	0.204	0.074	0.023	0.078	0.014	0.014	
5/16/2019 17:04			0	0.204	0.074	0.023	0.073	0.014	0.014	
5/16/2019 17:05	12.3	109.3	0	0.204	0.074	0.023	0.06	0.014	0.014	
5/16/2019 17:05										42.43079;-76.49811
5/16/2019 17:06			0	0.204	0.073	0.023	0.065	0.014	0.016	
5/16/2019 17:07			0	0.204	0.073	0.023	0.073	0.014	0.015	
5/16/2019 17:08			0	0.204	0.072	0.023	0.064	0.014	0.014	
5/16/2019 17:09			0	0.204	0.071	0.024	0.075	0.014	0.014	
5/16/2019 17:10	12.3	104.3	0	0.204	0.071	0.024	0.077	0.014	0.014	
5/16/2019 17:10										42.43079;-76.49809
5/16/2019 17:11			0	0.204	0.071	0.024	0.071	0.014	0.014	
5/16/2019 17:12			0	0.204	0.071	0.024	0.07	0.014	0.014	
5/16/2019 17:13			0	0.204	0.071	0.024	0.079	0.014	0.014	
5/16/2019 17:14			0	0.204	0.071	0.024	0.075	0.014	0.013	
5/16/2019 17:15	12.3	99.2	0	0.204	0.071	0.024	0.067	0.014	0.013	
5/16/2019 17:15										42.43079;-76.49811
5/16/2019 17:16			0	0.204	0.071	0.025	0.073	0.014	0.015	
5/16/2019 17:17			0	0.204	0.071	0.025	0.075	0.014	0.014	
5/16/2019 17:18			0	0.204	0.071	0.025	0.068	0.014	0.015	
5/16/2019 17:19			0	0.204	0.071	0.025	0.069	0.014	0.014	
5/16/2019 17:20	12.3	104.3	0	0.204	0.071	0.025	0.068	0.014	0.013	
5/16/2019 17:20										42.43079;-76.49812
5/16/2019 17:21			0	0.204	0.072	0.025	0.069	0.014	0.013	
5/16/2019 17:22			0	0.204	0.072	0.026	0.065	0.014	0.013	
5/16/2019 17:23			0	0.204	0.072	0.026	0.064	0.014	0.011	
5/16/2019 17:24			0	0.204	0.072	0.026	0.075	0.014	0.012	
5/16/2019 17:25	12.3	120.5	0	0.204	0.072	0.026	0.073	0.015	0.012	
5/16/2019 17:25										42.4308;-76.49813
5/16/2019 17:26			0	0.204	0.071	0.026	0.073	0.015	0.014	
5/16/2019 17:27			0	0.204	0.071	0.026	0.074	0.015	0.013	
5/16/2019 17:28			0	0.204	0.071	0.026	0.074	0.015	0.012	
5/16/2019 17:29			0	0.204	0.071	0.027	0.078	0.015	0.011	
5/16/2019 17:30	12.3	103.2	0	0.204	0.071	0.027	0.075	0.015	0.011	
5/16/2019 17:30										42.43084;-76.4981
5/16/2019 17:31			0	0.204	0.071	0.027	0.068	0.015	0.012	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/16/2019 17:32			0	0.204	0.071	0.027	0.07	0.015	0.015	
5/16/2019 17:33			0	0.204	0.071	0.027	0.075	0.015	0.016	
5/16/2019 17:34			0	0.204	0.071	0.027	0.071	0.015	0.013	
5/16/2019 17:35	12.3	100.2	0	0.204	0.071	0.027	0.078	0.015	0.011	
5/16/2019 17:35										42.43082;-76.49812
5/16/2019 17:36			0	0.204	0.071	0.028	0.08	0.015	0.011	
5/16/2019 17:37			0	0.204	0.072	0.028	0.083	0.015	0.01	
5/16/2019 17:38			0	0.204	0.072	0.028	0.081	0.015	0.012	
5/16/2019 17:39			0	0.204	0.073	0.028	0.08	0.015	0.012	
5/16/2019 17:40	12.3	99.2	0	0.204	0.074	0.028	0.08	0.015	0.011	
5/16/2019 17:40										42.43085;-76.49812
5/16/2019 17:41			0	0.204	0.075	0.028	0.082	0.015	0.011	
5/16/2019 17:42			0	0.204	0.076	0.029	0.093	0.015	0.011	
5/16/2019 17:43			0	0.204	0.076	0.029	0.091	0.015	0.01	
5/16/2019 17:44			0	0.204	0.078	0.029	0.081	0.015	0.01	
5/16/2019 17:45	12.3	111.3	0	0.204	0.078	0.029	0.096	0.015	0.01	
5/16/2019 17:45										42.43087;-76.49812
5/16/2019 17:46			0	0.204	0.079	0.029	0.089	0.015	0.01	
5/16/2019 17:47			0	0.204	0.081	0.03	0.085	0.015	0.01	
5/16/2019 17:48			0	0.204	0.081	0.03	0.094	0.015	0.01	
5/16/2019 17:49			0	0.204	0.083	0.03	0.089	0.015	0.01	
5/16/2019 17:50	12.3	101.2	0	0.204	0.084	0.03	0.095	0.015	0.01	
5/16/2019 17:50										42.43088;-76.49814
5/16/2019 17:51			0	0.204	0.085	0.03	0.083	0.015	0.01	
5/16/2019 17:52			0	0.204	0.086	0.03	0.093	0.015	0.011	
5/16/2019 17:53			0	0.204	0.087	0.031	0.089	0.015	0.011	
5/16/2019 17:54			0	0.204	0.088	0.031	0.091	0.015	0.01	
5/16/2019 17:55	12.3	104.3	0	0.204	0.089	0.031	0.094	0.015	0.011	
5/16/2019 17:55										42.43082;-76.49814
5/16/2019 17:56			0	0.204	0.09	0.031	0.088	0.015	0.01	
5/16/2019 17:57			0	0.204	0.091	0.032	0.092	0.015	0.011	
5/16/2019 17:58			0	0.204	0.091	0.032	0.093	0.015	0.01	
5/16/2019 17:59			0	0.204	0.091	0.032	0.092	0.015	0.011	
5/16/2019 18:00	12.3	111.3	0	0.204	0.091	0.032	0.091	0.015	0.011	
5/16/2019 18:00										42.43088;-76.49812
5/16/2019 18:01			0	0.204	0.091	0.032	0.094	0.015	0.01	
5/16/2019 18:02			0	0.204	0.092	0.032	0.093	0.015	0.013	
5/16/2019 18:03			0	0.204	0.092	0.033	0.088	0.015	0.01	
5/16/2019 18:04			0	0.204	0.092	0.033	0.098	0.015	0.01	
5/16/2019 18:05	12.3	107.3	0	0.204	0.093	0.033	0.096	0.015	0.01	
5/16/2019 18:05										42.4309;-76.4981
5/16/2019 18:06			0	0.204	0.093	0.033	0.094	0.015	0.01	
5/16/2019 18:07			0	0.204	0.093	0.033	0.091	0.015	0.01	
5/16/2019 18:08			0	0.204	0.093	0.034	0.085	0.016	0.009	
5/16/2019 18:09			0	0.204	0.093	0.034	0.086	0.016	0.01	
5/16/2019 18:10	12.3	105.3	0	0.204	0.092	0.034	0.091	0.016	0.01	
5/16/2019 18:10										42.4309;-76.49812
5/16/2019 18:11			0	0.204	0.092	0.034	0.095	0.016	0.01	
5/16/2019 18:12			0	0.204	0.092	0.034	0.092	0.016	0.009	
5/16/2019 18:13			0	0.204	0.092	0.035	0.087	0.016	0.01	
5/16/2019 18:14			0	0.204	0.091	0.035	0.085	0.016	0.009	
5/16/2019 18:15	12.3	136.6	0	0.204	0.091	0.035	0.078	0.016	0.009	
5/16/2019 18:15										42.43092;-76.4981
5/16/2019 18:16			0	0.204	0.09	0.035	0.081	0.016	0.01	
5/16/2019 18:17			0	0.204	0.089	0.035	0.082	0.016	0.009	
5/16/2019 18:18			0	0.204	0.088	0.035	0.087	0.016	0.01	
5/16/2019 18:19			0	0.204	0.087	0.036	0.086	0.016	0.01	
5/16/2019 18:20	12.3	117.4	0	0.204	0.087	0.036	0.079	0.016	0.01	
5/16/2019 18:20										42.43091;-76.4981
5/16/2019 18:21			0	0.204	0.086	0.036	0.08	0.016	0.01	
5/16/2019 18:22			0	0.204	0.084	0.036	0.081	0.016	0.012	
5/16/2019 18:23			0	0.204	0.084	0.036	0.085	0.016	0.009	
5/16/2019 18:24			0	0.204	0.084	0.037	0.075	0.016	0.011	
5/16/2019 18:25	12.3	107.3	0	0.204	0.083	0.037	0.088	0.016	0.012	
5/16/2019 18:25										42.43092;-76.49812
5/16/2019 18:26			0	0.204	0.083	0.037	0.087	0.016	0.012	
5/16/2019 18:27			0	0.204	0.083	0.037	0.08	0.016	0.012	
5/16/2019 18:28			0	0.204	0.083	0.037	0.084	0.016	0.01	
5/16/2019 18:29			0	0.204	0.083	0.037	0.084	0.016	0.01	
5/16/2019 18:30	12.2	111.3	0	0.204	0.083	0.037	0.085	0.016	0.01	
5/16/2019 18:30										42.43088;-76.49812
5/16/2019 18:31			0	0.204	0.083	0.038	0.083	0.016	0.011	
5/16/2019 18:32			0	0.204	0.083	0.038	0.079	0.016	0.011	
5/16/2019 18:33			0	0.204	0.083	0.038	0.084	0.016	0.01	
5/16/2019 18:34			0	0.204	0.084	0.038	0.085	0.016	0.012	
5/16/2019 18:35	12.2	101.2	0	0.204	0.083	0.038	0.082	0.016	0.011	
5/16/2019 18:35										42.4309;-76.49812
5/16/2019 18:36			0	0.204	0.083	0.039	0.076	0.016	0.012	
5/16/2019 18:37			0	0.204	0.083	0.039	0.087	0.016	0.014	
5/16/2019 18:38			0	0.204	0.083	0.039	0.073	0.016	0.011	
5/16/2019 18:39			0	0.204	0.083	0.039	0.078	0.016	0.011	
5/16/2019 18:40	12.2	103.2	0	0.204	0.083	0.039	0.083	0.016	0.013	
5/16/2019 18:40										42.43092;-76.49811
5/16/2019 18:41			0	0.204	0.082	0.04	0.079	0.016	0.019	
5/16/2019 18:42			0	0.204	0.081	0.04	0.078	0.016	0.011	
5/16/2019 18:43			0	0.204	0.081	0.04	0.076	0.016	0.012	
5/16/2019 18:44			0	0.204	0.081	0.04	0.08	0.016	0.011	
5/16/2019 18:45	12.2	103.2	0	0.204	0.081	0.04	0.084	0.016	0.01	
5/16/2019 18:45										42.43089;-76.49812
5/16/2019 18:46			0	0.204	0.08	0.04	0.079	0.016	0.017	
5/16/2019 18:47			0	0.204	0.08	0.04	0.078	0.016	0.012	
5/16/2019 18:48			0	0.204	0.079	0.041	0.075	0.016	0.011	
5/16/2019 18:49			0	0.204	0.079	0.041	0.077	0.016	0.011	
5/16/2019 18:50	12.2	106.3	0	0.204	0.079	0.041	0.078	0.016	0.011	
5/16/2019 18:50										42.43089;-76.49813
5/16/2019 18:51			0	0.204	0.078	0.041	0.081	0.017	0.011	
5/16/2019 18:52			0	0.204	0.078	0.041	0.077	0.017	0.016	
5/16/2019 18:53			0	0.204	0.078	0.041	0.077	0.017	0.01	
5/16/2019 18:54			0	0.204	0.079	0.042	0.081	0.017	0.011	
5/16/2019 18:55	12.2	102.2	0	0.204	0.079	0.042	0.092	0.017	0.01	
5/16/2019 18:55										42.43091;-76.49815
5/16/2019 18:56			0	0.204	0.079	0.042	0.084	0.017	0.011	
5/16/2019 18:57			0	0.204	0.08	0.042	0.085	0.017	0.011	
5/16/2019 18:58			0	0.204	0.08	0.042	0.083	0.017	0.011	
5/16/2019 18:59			0	0.204	0.08	0.043	0.085	0.017	0.011	
5/16/2019 19:00	12.2	100.2	0	0.204	0.08	0.043	0.082	0.017	0.011	
5/16/2019 19:00										42.43091;-76.49815
5/16/2019 19:01			0	0.204	0.08	0.043	0.08	0.017	0.011	
5/16/2019 19:02			0	0.204	0.08	0.043	0.082	0.017	0.012	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/16/2019 19:03			0	0.204	0.081	0.043	0.078	0.017	0.012	
5/16/2019 19:04			0	0.204	0.081	0.043	0.077	0.017	0.011	
5/16/2019 19:05	12.2	103.2	0	0.204	0.081	0.043	0.082	0.017	0.011	
5/16/2019 19:05										42.4309;-76.49812
5/16/2019 19:06			0	0.204	0.081	0.044	0.076	0.017	0.011	
5/16/2019 19:07			0	0.204	0.081	0.044	0.077	0.017	0.011	
5/16/2019 19:08			0	0.204	0.08	0.044	0.07	0.017	0.011	
5/16/2019 19:09			0	0.204	0.08	0.044	0.072	0.017	0.011	
5/16/2019 19:10	12.2	109.3	0	0.204	0.079	0.044	0.072	0.017	0.016	
5/16/2019 19:10										42.43092;-76.49815
5/16/2019 19:11			0	0.204	0.078	0.044	0.072	0.017	0.013	
5/16/2019 19:12			0	0.204	0.077	0.045	0.076	0.017	0.012	
5/16/2019 19:13			0	0.204	0.077	0.045	0.071	0.017	0.012	
5/16/2019 19:14			0	0.204	0.077	0.045	0.071	0.017	0.012	
5/16/2019 19:15	12.2	107.3	0	0.204	0.077	0.045	0.072	0.017	0.016	
5/16/2019 19:15										42.43095;-76.49818
5/16/2019 19:16			0	0.204	0.076	0.045	0.079	0.017	0.014	
5/16/2019 19:17			0	0.204	0.076	0.045	0.076	0.017	0.012	
5/16/2019 19:18			0	0.204	0.076	0.045	0.071	0.017	0.012	
5/16/2019 19:19			0	0.204	0.076	0.046	0.078	0.017	0.017	
5/16/2019 19:20	12.2	100.2	0	0.204	0.076	0.046	0.076	0.017	0.013	
5/16/2019 19:20										42.43095;-76.4982
5/16/2019 19:21			0	0.204	0.076	0.046	0.079	0.017	0.013	
5/16/2019 19:22			0	0.204	0.075	0.046	0.077	0.017	0.017	
5/16/2019 19:23			0	0.204	0.076	0.046	0.078	0.017	0.013	
5/16/2019 19:24			0	0.204	0.076	0.047	0.085	0.017	0.014	
5/16/2019 19:25	12.2	102.2	0	0.204	0.077	0.047	0.082	0.017	0.015	
5/16/2019 19:25										42.43089;-76.49812
5/16/2019 19:26			0	0.204	0.077	0.047	0.083	0.017	0.012	
5/16/2019 19:27			0	0.204	0.078	0.047	0.083	0.017	0.012	
5/16/2019 19:28			0	0.204	0.078	0.047	0.087	0.017	0.012	
5/16/2019 19:29			0	0.204	0.079	0.047	0.083	0.017	0.014	
5/16/2019 19:30	12.2	100.2	0	0.204	0.079	0.047	0.083	0.018	0.012	
5/16/2019 19:30										42.43092;-76.49821
5/16/2019 19:31			0	0.204	0.08	0.048	0.088	0.018	0.014	
5/16/2019 19:32			0	0.204	0.08	0.048	0.081	0.018	0.013	
5/16/2019 19:33			0	0.204	0.08	0.048	0.091	0.018	0.012	
5/16/2019 19:34			0	0.204	0.081	0.048	0.093	0.018	0.012	
5/16/2019 19:35	12.2	135.6	0	0.204	0.081	0.048	0.082	0.018	0.014	
5/16/2019 19:35										42.43092;-76.49821
5/16/2019 19:36			0	0.204	0.082	0.049	0.087	0.018	0.012	
5/16/2019 19:37			0	0.204	0.083	0.049	0.085	0.018	0.012	
5/16/2019 19:38			0	0.204	0.083	0.049	0.089	0.018	0.013	
5/16/2019 19:39			0	0.204	0.083	0.049	0.083	0.018	0.012	
5/16/2019 19:40	12.2	104.3	0	0.204	0.083	0.049	0.083	0.018	0.013	
5/16/2019 19:40										42.43094;-76.49818
5/16/2019 19:41			0	0.204	0.084	0.05	0.083	0.018	0.014	
5/16/2019 19:42			0	0.204	0.084	0.05	0.076	0.018	0.013	
5/16/2019 19:43			0	0.204	0.084	0.05	0.084	0.018	0.013	
5/16/2019 19:44			0	0.204	0.084	0.05	0.078	0.018	0.013	
5/16/2019 19:45	12.2	101.2	0	0.204	0.083	0.05	0.076	0.018	0.013	
5/16/2019 19:45										42.43087;-76.49814
5/16/2019 19:46			0	0.204	0.084	0.05	0.085	0.018	0.013	
5/16/2019 19:47			0	0.204	0.084	0.051	0.088	0.018	0.015	
5/16/2019 19:48			0	0.204	0.084	0.051	0.09	0.018	0.016	
5/16/2019 19:49			0	0.204	0.084	0.051	0.087	0.018	0.015	
5/16/2019 19:50	12.2	108.3	0	0.204	0.084	0.051	0.075	0.018	0.012	
5/16/2019 19:50										42.43086;-76.49814
5/16/2019 19:51			0	0.204	0.084	0.051	0.08	0.018	0.013	
5/16/2019 19:52			0	0.204	0.084	0.051	0.079	0.018	0.013	
5/16/2019 19:53			0	0.204	0.083	0.052	0.079	0.018	0.012	
5/16/2019 19:54			0	0.204	0.083	0.052	0.075	0.018	0.016	
5/16/2019 19:55	12.1	108.3	0	0.204	0.083	0.052	0.085	0.018	0.013	
5/16/2019 19:55										42.43088;-76.49815
5/16/2019 19:56			0	0.204	0.083	0.052	0.082	0.018	0.012	
5/16/2019 19:57			0	0.204	0.083	0.052	0.086	0.018	0.013	
5/16/2019 19:58			0	0.204	0.083	0.052	0.078	0.018	0.015	
5/16/2019 19:59			0	0.204	0.083	0.053	0.085	0.018	0.016	
5/16/2019 20:00	12.1	109.3	0	0.204	0.083	0.053	0.079	0.018	0.013	
5/16/2019 20:00										42.43087;-76.49815
5/16/2019 20:01			0	0.204	0.082	0.053	0.083	0.018	0.013	
5/16/2019 20:02			0	0.204	0.081	0.053	0.081	0.018	0.013	
5/16/2019 20:03			0	0.204	0.081	0.053	0.086	0.018	0.012	
5/16/2019 20:04			0	0.204	0.081	0.053	0.077	0.018	0.012	
5/16/2019 20:05	12.1	101.2	0	0.204	0.08	0.054	0.076	0.018	0.012	
5/16/2019 20:05										42.43086;-76.49813
5/16/2019 20:06			0	0.204	0.08	0.054	0.073	0.018	0.012	
5/16/2019 20:07			0	0.204	0.079	0.054	0.069	0.018	0.012	
5/16/2019 20:08			0	0.204	0.079	0.054	0.079	0.018	0.012	
5/16/2019 20:09			0	0.204	0.078	0.054	0.067	0.018	0.012	
5/16/2019 20:10	12.1	108.3	0	0.204	0.078	0.054	0.078	0.018	0.012	
5/16/2019 20:10										42.4309;-76.4981
5/16/2019 20:11			0	0.204	0.078	0.055	0.074	0.018	0.013	
5/16/2019 20:12			0	0.204	0.077	0.055	0.071	0.018	0.012	
5/16/2019 20:13			0	0.204	0.077	0.055	0.082	0.018	0.013	
5/16/2019 20:14			0	0.204	0.076	0.055	0.082	0.018	0.013	
5/16/2019 20:15	12.1	110.3	0	0.204	0.076	0.055	0.073	0.018	0.012	
5/16/2019 20:15										42.43093;-76.49814
5/16/2019 20:16			0	0.204	0.076	0.055	0.087	0.018	0.012	
5/16/2019 20:17			0	0.204	0.077	0.056	0.079	0.018	0.034	
5/16/2019 20:18			0	0.204	0.076	0.056	0.089	0.018	0.012	
5/16/2019 20:19			0	0.204	0.077	0.056	0.091	0.018	0.012	
5/16/2019 20:20	12.1	101.2	0	0.204	0.078	0.056	0.09	0.018	0.012	
5/16/2019 20:20										42.43084;-76.4981
5/16/2019 20:21			0	0.204	0.078	0.056	0.082	0.018	0.013	
5/22/2019 14:58	12.5	117.4								
5/22/2019 14:59			0	0.155	0	0	0.1			
5/22/2019 15:00	12.6	99.2	0	0.155	0	0	0.069			42.42934;-76.50193
5/22/2019 15:01			0	0.155	0	0	0.074	0	0.009	
5/22/2019 15:02			0	0.155	0	0	0.034	0	0.01	
5/22/2019 15:03			0	0.155	0	0	0.06	0	0.01	
5/22/2019 15:04			0	0.155	0	0	0.074	0	0.01	
5/22/2019 15:05	12.5	107.3	0	0.155	0	0	0.061	0	0.009	42.42944;-76.50178
5/22/2019 15:06			0	0.155	0	0.001	0.082	0	0.01	
5/22/2019 15:07			0	0.155	0	0.001	0.058	0	0.009	
5/22/2019 15:08			0	0.155	0	0.001	0.027	0	0.009	
5/22/2019 15:09			0	0.155	0	0.001	0.049	0	0.009	
5/22/2019 15:10	12.5	103.2	0	0.155	0	0.001	0.014	0	0.009	42.42932;-76.50179
5/22/2019 15:11			0	0.155	0	0.001	0.046	0	0.009	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/22/2019 15:12			0	0.155	0	0.001	0.062	0	0.008	
5/22/2019 15:13			0	0.155	0.057	0.001	0.06	0	0.009	
5/22/2019 15:14			0	0.155	0.056	0.001	0.054	0	0.009	
5/22/2019 15:15	12.5	106.3	0	0.155	0.053	0.002	0.05	0	0.009	42.42939;-76.50179
5/22/2019 15:16			0	0.155	0.053	0.002	0.01	0	0.009	
5/22/2019 15:17			0	0.155	0.053	0.002	0.038	0	0.009	
5/22/2019 15:18			0	0.155	0.053	0.002	0.096	0	0.008	
5/22/2019 15:19			0	0.155	0.053	0.002	0.045	0	0.008	
5/22/2019 15:20	12.5	107.3	0	0.155	0.054	0.002	0.045	0	0.007	42.42934;-76.50175
5/22/2019 15:21			0	0.155	0.055	0.002	0.036	0	0.007	
5/22/2019 15:22			0	0.155	0.053	0.002	0.035	0	0.008	
5/22/2019 15:23			0	0.155	0.053	0.002	0.044	0	0.009	
5/22/2019 15:24			0	0.156	0.055	0.003	0.058	0	0.008	
5/22/2019 15:25	12.5	104.3	0	0.156	0.055	0.003	0.089	0	0.008	42.4293;-76.50179
5/22/2019 15:26			0	0.156	0.058	0.003	0.101	0	0.007	
5/22/2019 15:27			0	0.156	0.06	0.003	0.081	0	0.007	
5/22/2019 15:28			0	0.156	0.061	0.003	0.056	0	0.008	
5/22/2019 15:29			0	0.156	0.062	0.003	0.044	0.001	0.011	
5/22/2019 15:30	12.5	103.2	0	0.157	0.064	0.004	0.094	0.001	0.008	42.42935;-76.50175
5/22/2019 15:31			0	0.157	0.066	0.004	0.092	0.001	0.007	
5/22/2019 15:32			0	0.157	0.068	0.004	0.109	0.001	0.007	
5/22/2019 15:33			0	0.157	0.071	0.004	0.097	0.001	0.007	
5/22/2019 15:34			0	0.157	0.073	0.004	0.058	0.001	0.007	
5/22/2019 15:35	12.5	113.4	0	0.17	0.075	0.004	0.094	0.001	0.008	42.42931;-76.50175
5/22/2019 15:36			0	0.17	0.078	0.005	0.086	0.001	0.009	
5/22/2019 15:37			0	0.17	0.081	0.005	0.102	0.001	0.007	
5/22/2019 15:38			0	0.17	0.084	0.005	0.079	0.001	0.007	
5/22/2019 15:39			0	0.17	0.084	0.005	0.112	0.001	0.007	
5/22/2019 15:40	12.5	102.2	0	0.17	0.087	0.005	0.099	0.001	0.007	42.42932;-76.50178
5/22/2019 15:41			0	0.17	0.089	0.006	0.098	0.001	0.007	
5/22/2019 15:42			0	0.17	0.089	0.006	0.108	0.001	0.007	
5/22/2019 15:43			0	0.17	0.091	0.006	0.082	0.001	0.007	
5/22/2019 15:44			0	0.17	0.092	0.006	0.163	0.001	0.007	
5/22/2019 15:45	12.5	100.2	0	0.177	0.094	0.006	0.115	0.001	0.007	42.42933;-76.50181
5/22/2019 15:46			0	0.177	0.095	0.007	0.107	0.001	0.007	
5/22/2019 15:47			0	0.177	0.096	0.007	0.089	0.001	0.007	
5/22/2019 15:48			0	0.177	0.096	0.007	0.105	0.001	0.007	
5/22/2019 15:49			0	0.177	0.098	0.007	0.112	0.001	0.007	
5/22/2019 15:50	12.5	98.2	0	0.177	0.099	0.008	0.099	0.001	0.104	42.42931;-76.50179
5/22/2019 15:51			0	0.177	0.1	0.008	0.121	0.001	0.015	
5/22/2019 15:52			0	0.177	0.1	0.008	0.106	0.001	0.008	
5/22/2019 15:53			0	0.177	0.101	0.008	0.106	0.001	0.106	
5/22/2019 15:54			0	0.177	0.101	0.008	0.078	0.001	0.016	
5/22/2019 15:55	12.5	98.2	0	0.177	0.1	0.009	0.106	0.001	0.008	42.42928;-76.50175
5/22/2019 15:56			0	0.177	0.101	0.009	0.124	0.001	0.073	
5/22/2019 15:57			0	0.177	0.102	0.009	0.12	0.002	0.021	
5/22/2019 15:58			0	0.177	0.102	0.009	0.096	0.002	0.007	
5/22/2019 15:59			0	0.177	0.104	0.01	0.099	0.002	0.007	
5/22/2019 16:00	12.5	99.2	0	0.177	0.104	0.01	0.109	0.002	0.007	42.42926;-76.50172
5/22/2019 16:01			0	0.177	0.104	0.01	0.12	0.002	0.007	
5/22/2019 16:02			0	0.177	0.104	0.01	0.108	0.002	0.006	
5/22/2019 16:03			0	0.177	0.105	0.01	0.119	0.002	0.083	
5/22/2019 16:04			0	0.177	0.106	0.011	0.111	0.002	0.028	
5/22/2019 16:05	12.5	106.3	0	0.177	0.106	0.011	0.117	0.002	0.025	42.42928;-76.50171
5/22/2019 16:06			0	0.177	0.107	0.011	0.124	0.002	0.007	
5/22/2019 16:07			0	0.177	0.108	0.011	0.104	0.002	0.007	
5/22/2019 16:08			0	0.177	0.109	0.012	0.13	0.002	0.009	
5/22/2019 16:09			0	0.189	0.111	0.012	0.128	0.002	0.008	
5/22/2019 16:10	12.5	125.5	0	0.189	0.114	0.012	0.126	0.002	0.007	42.42931;-76.50172
5/22/2019 16:11			0	0.189	0.116	0.012	0.131	0.002	0.009	
5/22/2019 16:12			0	0.189	0.117	0.013	0.101	0.002	0.007	
5/22/2019 16:13			0	0.189	0.118	0.013	0.126	0.002	0.008	
5/22/2019 16:14			0	0.189	0.12	0.013	0.138	0.002	0.007	
5/22/2019 16:15	12.5	111.3	0	0.189	0.122	0.014	0.138	0.002	0.007	42.42926;-76.50168
5/22/2019 16:16			0	0.189	0.124	0.014	0.137	0.002	0.007	
5/22/2019 16:17			0	0.189	0.125	0.014	0.145	0.002	0.007	
5/22/2019 16:18	12.5	110.3								
5/22/2019 16:19			0	0.189	0.128	0.015	0.143	0	0.006	
5/22/2019 16:20	12.5	88.1	0	0.189	0.129	0.015	0.144	0	0.006	42.42922;-76.50172
5/22/2019 16:21			0	0.189	0.13	0.015	0.145	0	0.008	
5/22/2019 16:22			0	0.189	0.131	0.016	0.13	0	0.007	
5/22/2019 16:23			0	0.189	0.133	0.016	0.142	0	0.007	
5/22/2019 16:24			0	0.189	0.133	0.016	0.145	0	0.007	
5/22/2019 16:25	12.5	94.1	0	0.189	0.133	0.016	0.163	0	0.007	42.42922;-76.50172
5/22/2019 16:26			0	0.189	0.134	0.017	0.13	0	0.01	
5/22/2019 16:27			0	0.189	0.136	0.017	0.154	0	0.007	
5/22/2019 16:28			0	0.189	0.136	0.017	0.145	0	0.007	
5/22/2019 16:29			0	0.198	0.137	0.018	0.148	0	0.006	
5/22/2019 16:30	12.5	88.1	0	0.198	0.138	0.018	0.152	0	0.006	42.42922;-76.50172
5/22/2019 16:31			0	0.198	0.139	0.018	0.15	0	0.006	
5/22/2019 16:32			0	0.198	0.14	0.019	0.174	0	0.008	
5/22/2019 16:33			0	0.198	0.14	0.019	0.152	0	0.008	
5/22/2019 16:34			0	0.198	0.141	0.019	0.156	0	0.008	
5/22/2019 16:35	12.5	89.1	0	0.198	0.142	0.019	0.141	0	0.008	42.42922;-76.50172
5/22/2019 16:36			0	0.198	0.142	0.02	0.137	0	0.008	
5/22/2019 16:37			0	0.198	0.143	0.02	0.155	0	0.006	
5/22/2019 16:38			0	0.198	0.143	0.02	0.158	0	0.006	
5/22/2019 16:39			0	0.198	0.143	0.021	0.147	0	0.006	
5/22/2019 16:40	12.5	87	0	0.198	0.144	0.021	0.128	0	0.007	42.42922;-76.50172
5/22/2019 16:41			0	0.198	0.145	0.021	0.16	0	0.006	
5/22/2019 16:42			0	0.198	0.145	0.022	0.139	0	0.007	
5/22/2019 16:43			0	0.198	0.146	0.022	0.164	0	0.007	
5/22/2019 16:44			0	0.198	0.146	0.022	0.153	0	0.007	
5/22/2019 16:45	12.5	89.1	0	0.198	0.146	0.022	0.13	0	0.007	42.42922;-76.50172
5/22/2019 16:46			0	0.198	0.145	0.023	0.152	0	0.006	
5/22/2019 16:47			0	0.198	0.145	0.023	0.115	0	0.007	
5/22/2019 16:48			0	0.198	0.144	0.023	0.106	0	0.007	
5/22/2019 16:49			0	0.198	0.143	0.024	0.128	0	0.007	
5/22/2019 16:50	12.5	94.1	0	0.198	0.142	0.024	0.088	0	0.007	42.42922;-76.50172
5/22/2019 16:51			0	0.198	0.142	0.024	0.132	0	0.007	
5/22/2019 16:52			0	0.198	0.141	0.024	0.115	0	0.007	
5/22/2019 16:53			0	0.198	0.141	0.025	0.109	0.001	0.007	
5/22/2019 16:54			0	0.198	0.14	0.025	0.12	0.001	0.007	
5/22/2019 16:55	12.5	87	0	0.198	0.139	0.025	0.141	0.001	0.007	42.42922;-76.50172
5/22/2019 16:56			0	0.198	0.138	0.026	0.137	0.001	0.007	
5/22/2019 16:57			0	0.198	0.138	0.026	0.134	0.001	0.007	
5/22/2019 16:58			0	0.198	0.137	0.026	0.123	0.001	0.007	
5/22/2019 16:59			0	0.198	0.136	0.026	0.162	0.001	0.007	
5/22/2019 17:00	12.5	91.1	0	0.198	0.135	0.027	0.155	0.001	0.007	42.42922;-76.50172

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/22/2019 17:01			0	0.198	0.134	0.027	0.167	0.001	0.007	
5/22/2019 17:02			0	0.198	0.134	0.027	0.108	0.001	0.007	
5/22/2019 17:03			0	0.198	0.134	0.028	0.174	0.001	0.006	
5/22/2019 17:04			0	0.198	0.135	0.028	0.12	0.001	0.007	
5/22/2019 17:05	12.5	88.1	0	0.198	0.135	0.028	0.13	0.001	0.008	42.42922;-76.50172
5/22/2019 17:06			0	0.198	0.136	0.028	0.133	0.001	0.007	
5/22/2019 17:07			0	0.198	0.137	0.029	0.142	0.001	0.007	
5/22/2019 17:08			0	0.198	0.137	0.029	0.173	0.001	0.007	
5/22/2019 17:09			0	0.198	0.139	0.029	0.145	0.001	0.006	
5/22/2019 17:10	12.5	88.1	0	0.198	0.141	0.03	0.166	0.001	0.007	42.42922;-76.50172
5/22/2019 17:11			0	0.198	0.142	0.03	0.165	0.001	0.007	
5/22/2019 17:12			0	0.198	0.143	0.03	0.167	0.001	0.007	
5/22/2019 17:13			0	0.198	0.143	0.031	0.159	0.001	0.006	
5/22/2019 17:14			0	0.198	0.145	0.031	0.151	0.001	0.007	
5/22/2019 17:15	12.5	89.1	0	0.198	0.145	0.031	0.161	0.001	0.007	42.42922;-76.50172
5/22/2019 17:16			0	0.198	0.147	0.032	0.143	0.001	0.006	
5/22/2019 17:17			0	0.198	0.148	0.032	0.153	0.001	0.007	
5/22/2019 17:18			0	0.198	0.149	0.032	0.156	0.001	0.007	
5/22/2019 17:19			0	0.198	0.15	0.033	0.144	0.001	0.007	
5/22/2019 17:20	12.5	88.1	0	0.198	0.151	0.033	0.164	0.001	0.007	42.42922;-76.50172
5/22/2019 17:21			0	0.198	0.152	0.033	0.167	0.001	0.007	
5/22/2019 17:22			0	0.198	0.153	0.034	0.158	0.001	0.007	
5/22/2019 17:23			0	0.198	0.154	0.034	0.148	0.001	0.007	
5/22/2019 17:24			0	0.198	0.153	0.034	0.159	0.001	0.007	
5/22/2019 17:25	12.5	87	0	0.198	0.153	0.034	0.174	0.001	0.007	42.42922;-76.50172
5/22/2019 17:26			0	0.198	0.153	0.035	0.157	0.001	0.007	
5/22/2019 17:27			0	0.198	0.153	0.035	0.153	0.001	0.007	
5/22/2019 17:28			0	0.198	0.154	0.035	0.15	0.001	0.007	
5/22/2019 17:29			0	0.198	0.154	0.036	0.15	0.001	0.007	
5/22/2019 17:30	12.5	89.1	0	0.198	0.154	0.036	0.158	0.001	0.007	42.42922;-76.50172
5/22/2019 17:31			0	0.198	0.154	0.036	0.148	0.001	0.007	
5/22/2019 17:32			0	0.198	0.154	0.037	0.169	0.001	0.007	
5/22/2019 17:33			0	0.198	0.154	0.037	0.148	0.001	0.007	
5/22/2019 17:34			0	0.198	0.154	0.037	0.17	0.001	0.007	
5/22/2019 17:35	12.5	90.1	0	0.198	0.154	0.038	0.148	0.001	0.007	42.42922;-76.50172
5/22/2019 17:36			0	0.198	0.154	0.038	0.149	0.001	0.007	
5/22/2019 17:37			0	0.198	0.154	0.038	0.16	0.001	0.007	
5/22/2019 17:38			0	0.198	0.155	0.039	0.157	0.001	0.007	
5/22/2019 17:39			0	0.198	0.155	0.039	0.141	0.001	0.007	
5/22/2019 17:40	12.5	89.1	0	0.198	0.155	0.039	0.139	0.001	0.007	42.42922;-76.50172
5/22/2019 17:41			0	0.198	0.155	0.04	0.145	0.001	0.007	
5/22/2019 17:42			0	0.198	0.155	0.04	0.174	0.001	0.007	
5/22/2019 17:43			0	0.198	0.155	0.04	0.164	0.001	0.007	
5/22/2019 17:44			0	0.198	0.155	0.041	0.145	0.001	0.007	
5/22/2019 17:45	12.5	90.1	0	0.198	0.155	0.041	0.167	0.001	0.007	42.42922;-76.50172
5/22/2019 17:46			0	0.198	0.155	0.041	0.163	0.001	0.008	
5/22/2019 17:47			0	0.198	0.155	0.042	0.151	0.001	0.008	
5/22/2019 17:48			0	0.198	0.155	0.042	0.163	0.001	0.007	
5/22/2019 17:49			0	0.198	0.155	0.042	0.154	0.001	0.008	
5/22/2019 17:50	12.5	90.1	0	0.198	0.155	0.043	0.157	0.001	0.008	42.42922;-76.50172
5/22/2019 17:51			0	0.198	0.155	0.043	0.141	0.001	0.008	
5/22/2019 17:52			0	0.198	0.155	0.043	0.148	0.001	0.008	
5/22/2019 17:53			0	0.198	0.154	0.044	0.161	0.001	0.007	
5/22/2019 17:54			0	0.198	0.154	0.044	0.163	0.001	0.007	
5/22/2019 17:55	12.5	89.1	0	0.198	0.154	0.044	0.169	0.001	0.007	42.42922;-76.50172
5/22/2019 17:56			0	0.198	0.155	0.045	0.169	0.001	0.008	
5/22/2019 17:57			0	0.198	0.155	0.045	0.151	0.001	0.007	
5/22/2019 17:58			0	0.198	0.155	0.045	0.176	0.001	0.007	
5/22/2019 17:59			0	0.198	0.155	0.045	0.16	0.001	0.007	
5/22/2019 18:00	12.5	89.1	0	0.198	0.155	0.046	0.16	0.001	0.007	42.42922;-76.50172
5/22/2019 18:01			0	0.198	0.156	0.046	0.176	0.001	0.007	
5/22/2019 18:02			0	0.198	0.156	0.046	0.151	0.002	0.007	
5/22/2019 18:03			0	0.198	0.157	0.047	0.168	0.002	0.007	
5/22/2019 18:04			0	0.198	0.158	0.047	0.185	0.002	0.007	
5/22/2019 18:05	12.5	89.1	0	0.198	0.158	0.048	0.162	0.002	0.008	42.42922;-76.50172
5/22/2019 18:06			0	0.198	0.159	0.048	0.173	0.002	0.008	
5/22/2019 18:07			0	0.198	0.16	0.048	0.168	0.002	0.008	
5/22/2019 18:08			0	0.198	0.16	0.049	0.173	0.002	0.008	
5/22/2019 18:09			0	0.198	0.161	0.049	0.145	0.002	0.008	
5/22/2019 18:10	12.5	87	0	0.198	0.161	0.049	0.187	0.002	0.007	42.42922;-76.50172
5/22/2019 18:11			0	0.198	0.161	0.05	0.161	0.002	0.007	
5/22/2019 18:12			0	0.201	0.162	0.05	0.17	0.002	0.007	
5/22/2019 18:13			0	0.201	0.163	0.05	0.174	0.002	0.007	
5/22/2019 18:14			0	0.201	0.163	0.051	0.162	0.002	0.007	
5/22/2019 18:15	12.5	89.1	0	0.201	0.163	0.051	0.175	0.002	0.009	42.42922;-76.50172
5/22/2019 18:16			0	0.201	0.164	0.051	0.185	0.002	0.007	
5/22/2019 18:17			0	0.201	0.165	0.052	0.162	0.002	0.008	
5/22/2019 18:18			0	0.201	0.166	0.052	0.186	0.002	0.008	
5/22/2019 18:19			0	0.201	0.166	0.052	0.181	0.002	0.007	
5/22/2019 18:20	12.5	90.1	0	0.206	0.167	0.053	0.18	0.002	0.007	42.42922;-76.50172
5/22/2019 18:21			0	0.206	0.168	0.053	0.165	0.002	0.007	
5/22/2019 18:22			0	0.206	0.168	0.053	0.171	0.002	0.007	
5/22/2019 18:23			0	0.206	0.169	0.054	0.182	0.002	0.008	
5/22/2019 18:24			0	0.206	0.17	0.054	0.187	0.002	0.007	
5/22/2019 18:25	12.5	89.1	0	0.206	0.17	0.055	0.157	0.002	0.007	42.42922;-76.50172
5/22/2019 18:26			0	0.206	0.17	0.055	0.185	0.002	0.007	
5/22/2019 18:27			0	0.206	0.17	0.055	0.171	0.002	0.007	
5/22/2019 18:28			0	0.206	0.171	0.056	0.169	0.002	0.007	
5/22/2019 18:29			0	0.206	0.171	0.056	0.178	0.002	0.007	
5/22/2019 18:30	12.5	94.1	0	0.206	0.171	0.056	0.157	0.002	0.008	42.42922;-76.50172
5/22/2019 18:31			0	0.206	0.17	0.057	0.162	0.002	0.007	
5/22/2019 18:32			0	0.206	0.169	0.057	0.166	0.002	0.007	
5/22/2019 18:33			0	0.206	0.169	0.057	0.166	0.002	0.007	
5/22/2019 18:34			0	0.206	0.169	0.058	0.181	0.002	0.007	
5/22/2019 18:35	12.4	89.1	0	0.206	0.168	0.058	0.175	0.002	0.007	42.42922;-76.50172
5/22/2019 18:36			0	0.206	0.168	0.058	0.163	0.002	0.007	
5/22/2019 18:37			0	0.206	0.167	0.059	0.182	0.002	0.007	
5/22/2019 18:38			0	0.206	0.167	0.059	0.168	0.002	0.01	
5/22/2019 18:39			0	0.206	0.166	0.059	0.166	0.002	0.009	
5/22/2019 18:40	12.4	89.1	0	0.206	0.165	0.06	0.175	0.002	0.007	42.42922;-76.50172
5/22/2019 18:41			0	0.206	0.165	0.06	0.157	0.002	0.006	
5/22/2019 18:42			0	0.206	0.165	0.06	0.158	0.002	0.007	
5/22/2019 18:43			0	0.206	0.164	0.061	0.16	0.002	0.007	
5/22/2019 18:44			0	0.206	0.164	0.061	0.153	0.002	0.007	
5/22/2019 18:45	12.4	90.1	0	0.206	0.164	0.061	0.16	0.002	0.007	42.42922;-76.50172
5/22/2019 18:46			0	0.206	0.164	0.062	0.159	0.002	0.007	
5/22/2019 18:47			0	0.206	0.164	0.062	0.17	0.002	0.009	
5/22/2019 18:48			0	0.206	0.164	0.062	0.157	0.002	0.008	
5/22/2019 18:49			0	0.206	0.163	0.063	0.164	0.002	0.007	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/22/2019 18:50	12.4	89.1	0	0.206	0.162	0.063	0.158	0.002	0.007	42.42922;-76.50172
5/22/2019 18:51			0	0.206	0.162	0.063	0.162	0.002	0.006	
5/22/2019 18:52			0	0.206	0.161	0.064	0.168	0.002	0.007	
5/22/2019 18:53			0	0.206	0.16	0.064	0.158	0.002	0.007	
5/22/2019 18:54			0	0.206	0.16	0.064	0.158	0.002	0.007	
5/22/2019 18:55	12.4	87	0	0.206	0.16	0.065	0.161	0.002	0.007	42.42922;-76.50172
5/22/2019 18:56			0	0.206	0.159	0.065	0.144	0.002	0.007	
5/22/2019 18:57			0	0.206	0.159	0.065	0.153	0.002	0.007	
5/22/2019 18:58			0	0.206	0.158	0.066	0.182	0.002	0.009	
5/22/2019 18:59			0	0.206	0.158	0.066	0.142	0.002	0.008	
5/22/2019 19:00	12.4	89.1	0	0.206	0.157	0.066	0.143	0.002	0.008	42.42922;-76.50172
5/22/2019 19:01			0	0.206	0.156	0.067	0.157	0.002	0.007	
5/22/2019 19:02			0	0.206	0.155	0.067	0.142	0.002	0.007	
5/22/2019 19:03			0	0.206	0.154	0.067	0.135	0.002	0.007	
5/22/2019 19:04			0	0.206	0.153	0.068	0.15	0.002	0.007	
5/22/2019 19:05	12.4	89.1	0	0.206	0.153	0.068	0.16	0.002	0.007	42.42922;-76.50172
5/22/2019 19:06			0	0.206	0.152	0.068	0.163	0.002	0.007	
5/22/2019 19:07			0	0.206	0.151	0.068	0.137	0.003	0.007	
5/22/2019 19:08			0	0.206	0.151	0.069	0.161	0.003	0.018	
5/22/2019 19:09			0	0.206	0.151	0.069	0.155	0.003	0.011	
5/22/2019 19:10	12.4	88.1	0	0.206	0.151	0.069	0.152	0.003	0.009	42.42922;-76.50172
5/22/2019 19:11			0	0.206	0.15	0.07	0.154	0.003	0.008	
5/22/2019 19:12			0	0.206	0.15	0.07	0.149	0.003	0.007	
5/22/2019 19:13			0	0.206	0.15	0.07	0.168	0.003	0.007	
5/22/2019 19:14			0	0.206	0.149	0.071	0.164	0.003	0.038	
5/22/2019 19:15	12.4	90.1	0	0.206	0.149	0.071	0.147	0.003	0.038	42.42922;-76.50172
5/22/2019 19:16			0	0.206	0.149	0.071	0.154	0.003	0.007	
5/22/2019 19:17			0	0.206	0.149	0.072	0.148	0.003	0.012	
5/22/2019 19:18			0	0.206	0.15	0.072	0.148	0.003	0.007	
5/22/2019 19:19			0	0.206	0.151	0.072	0.136	0.003	0.007	
5/22/2019 19:20	12.4	90.1	0	0.206	0.151	0.073	0.149	0.003	0.008	42.42922;-76.50172
5/22/2019 19:21			0	0.206	0.151	0.073	0.142	0.004	0.331	
5/22/2019 19:22			0	0.206	0.151	0.073	0.166	0.004	0.105	
5/22/2019 19:23			0	0.206	0.151	0.074	0.162	0.004	0.023	
5/22/2019 19:24			0	0.206	0.151	0.074	0.156	0.004	0.01	
5/22/2019 19:25	12.4	92.1	0	0.206	0.151	0.074	0.138	0.004	0.008	42.42922;-76.50172
5/22/2019 19:26			0	0.206	0.151	0.074	0.148	0.004	0.007	
5/22/2019 19:27			0	0.206	0.15	0.075	0.149	0.004	0.007	
5/22/2019 19:28			0	0.206	0.15	0.075	0.139	0.004	0.008	
5/22/2019 19:29			0	0.206	0.149	0.075	0.147	0.004	0.008	
5/22/2019 19:30	12.4	89.1	0	0.206	0.149	0.076	0.137	0.004	0.007	42.42922;-76.50172
5/22/2019 19:31			0	0.206	0.149	0.076	0.138	0.004	0.007	
5/22/2019 19:32			0	0.206	0.148	0.076	0.154	0.004	0.006	
5/22/2019 19:33			0	0.206	0.147	0.077	0.157	0.004	0.007	
5/22/2019 19:34			0	0.206	0.146	0.077	0.142	0.004	0.006	
5/22/2019 19:35	12.4	109.3	0	0.206	0.145	0.077	0.133	0.004	0.006	42.42922;-76.50172
5/22/2019 19:36			0	0.206	0.144	0.077	0.143	0.004	0.007	
5/22/2019 19:37			0	0.206	0.144	0.078	0.13	0.004	0.007	
5/22/2019 19:38			0	0.206	0.142	0.078	0.138	0.004	0.007	
5/22/2019 19:39			0	0.206	0.142	0.078	0.137	0.004	0.006	
5/22/2019 19:40	12.4	89.1	0	0.206	0.141	0.079	0.151	0.004	0.012	42.42922;-76.50172
5/22/2019 19:41			0	0.206	0.141	0.079	0.132	0.004	0.109	
5/22/2019 19:42			0	0.206	0.14	0.079	0.126	0.005	0.207	
5/22/2019 19:43			0	0.206	0.14	0.079	0.141	0.005	0.007	
5/22/2019 19:44			0	0.206	0.14	0.08	0.13	0.005	0.008	
5/22/2019 19:45	12.4	90.1	0	0.206	0.139	0.08	0.142	0.005	0.007	42.42922;-76.50172
5/22/2019 19:46			0	0.206	0.138	0.08	0.129	0.005	0.007	
5/22/2019 19:47			0	0.206	0.138	0.081	0.134	0.005	0.01	
5/22/2019 19:48			0	0.206	0.138	0.081	0.106	0.005	0.007	
5/22/2019 19:49			0	0.206	0.137	0.081	0.143	0.005	0.007	
5/22/2019 19:50	12.4	90.1	0	0.206	0.136	0.081	0.118	0.005	0.007	42.42922;-76.50172
5/22/2019 19:51			0	0.206	0.136	0.082	0.136	0.005	0.007	
5/22/2019 19:52			0	0.206	0.136	0.082	0.146	0.005	0.007	
5/22/2019 19:53			0	0.206	0.136	0.082	0.14	0.005	0.007	
5/22/2019 19:54			0	0.206	0.136	0.083	0.123	0.005	0.007	
5/22/2019 19:55	12.4	89.1	0	0.206	0.135	0.083	0.126	0.005	0.006	42.42922;-76.50172
5/22/2019 19:56			0	0.206	0.134	0.083	0.129	0.005	0.006	
5/22/2019 19:57			0	0.206	0.134	0.083	0.134	0.005	0.006	
5/22/2019 19:58			0	0.206	0.133	0.084	0.132	0.005	0.006	
5/22/2019 19:59			0	0.206	0.132	0.084	0.13	0.005	0.007	
5/22/2019 20:00	12.4	89.1	0	0.206	0.131	0.084	0.129	0.005	0.007	42.42922;-76.50172
5/22/2019 20:01			0	0.206	0.131	0.084	0.129	0.005	0.008	
5/22/2019 20:02			0	0.206	0.13	0.085	0.131	0.005	0.007	
5/22/2019 20:03			0	0.206	0.13	0.085	0.143	0.005	0.007	
5/22/2019 20:04			0	0.206	0.129	0.085	0.122	0.005	0.006	
5/22/2019 20:05	12.4	91.1	0	0.206	0.129	0.086	0.14	0.005	0.006	42.42922;-76.50172
5/22/2019 20:06			0	0.206	0.13	0.086	0.14	0.005	0.007	
5/22/2019 20:07			0	0.206	0.129	0.086	0.125	0.005	0.007	
5/22/2019 20:08			0	0.206	0.129	0.086	0.132	0.005	0.007	
5/22/2019 20:09			0	0.206	0.128	0.087	0.123	0.005	0.007	
5/22/2019 20:10	12.4	89.1	0	0.206	0.128	0.087	0.136	0.005	0.007	42.42922;-76.50172
5/22/2019 20:11			0	0.206	0.128	0.087	0.129	0.005	0.007	
5/22/2019 20:12			0	0.206	0.128	0.087	0.131	0.005	0.007	
5/22/2019 20:13			0	0.206	0.128	0.088	0.12	0.005	0.006	
5/22/2019 20:14			0	0.206	0.128	0.088	0.125	0.005	0.006	
5/22/2019 20:15	12.4	90.1	0	0.206	0.127	0.088	0.117	0.005	0.006	42.42922;-76.50172
5/22/2019 20:16			0	0.206	0.127	0.088	0.119	0.005	0.006	
5/22/2019 20:17			0	0.206	0.126	0.089	0.109	0.005	0.007	
5/22/2019 20:18			0	0.206	0.125	0.089	0.123	0.005	0.007	
5/22/2019 20:19			0	0.206	0.124	0.089	0.117	0.005	0.006	
5/22/2019 20:20	12.4	90.1	0	0.206	0.123	0.089	0.12	0.005	0.006	42.42922;-76.50172
5/22/2019 20:21			0	0.206	0.121	0.09	0.124	0.005	0.007	
5/22/2019 20:22			0	0.206	0.12	0.09	0.111	0.005	0.006	
5/22/2019 20:23			0	0.206	0.12	0.09	0.117	0.005	0.006	
5/22/2019 20:24			0	0.206	0.119	0.09	0.098	0.005	0.008	
5/22/2019 20:25	12.3	88.1	0	0.206	0.118	0.091	0.129	0.005	0.007	42.42922;-76.50172
5/22/2019 20:26			0	0.206	0.117	0.091	0.107	0.005	0.007	
5/22/2019 20:27			0	0.206	0.116	0.091	0.114	0.005	0.007	
5/22/2019 20:28			0	0.206	0.115	0.091	0.11	0.005	0.007	
5/22/2019 20:29			0	0.206	0.114	0.091	0.116	0.005	0.006	
5/22/2019 20:30	12.3	88.1	0	0.206	0.114	0.092	0.105	0.005	0.008	42.42922;-76.50172
5/22/2019 20:31			0	0.206	0.114	0.092	0.126	0.005	0.007	
5/22/2019 20:32			0	0.206	0.114	0.092	0.117	0.005	0.007	
5/22/2019 20:33			0	0.206	0.113	0.092	0.113	0.005	0.007	
5/22/2019 20:34			0	0.206	0.113	0.093	0.114	0.005	0.007	
5/22/2019 20:35	12.3	91.1	0	0.206	0.113	0.093	0.11	0.006	0.007	42.42922;-76.50172
5/22/2019 20:36			0	0.206	0.114	0.093	0.121	0.006	0.01	
5/22/2019 20:37			0	0.206	0.114	0.093	0.103	0.006	0.011	
5/22/2019 20:38			0	0.206	0.113	0.094	0.124	0.006	0.016	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/22/2019 20:39			0	0.206	0.113	0.094	0.104	0.006	0.008	
5/22/2019 20:40	12.3	107.3	0	0.206	0.113	0.094	0.109	0.006	0.007	42.42922;-76.50172
5/22/2019 20:41			0	0.206	0.112	0.094	0.108	0.006	0.006	
5/22/2019 20:42			0	0.206	0.112	0.095	0.116	0.006	0.006	
5/22/2019 20:43			0	0.206	0.113	0.095	0.101	0.006	0.008	
5/22/2019 20:44			0	0.206	0.113	0.095	0.114	0.006	0.007	
5/22/2019 20:45	12.3	89.1	0	0.206	0.113	0.095	0.112	0.006	0.006	42.42922;-76.50172
5/22/2019 20:46			0	0.206	0.113	0.096	0.122	0.006	0.006	
5/22/2019 20:47			0	0.206	0.113	0.096	0.121	0.006	0.006	
5/22/2019 20:48			0	0.206	0.114	0.096	0.128	0.006	0.007	
5/22/2019 20:49			0	0.206	0.114	0.096	0.119	0.006	0.009	
5/22/2019 20:50	12.3	89.1	0	0.206	0.113	0.096	0.101	0.006	0.014	42.42922;-76.50172
5/22/2019 20:51			0	0.206	0.113	0.097	0.11	0.006	0.061	
5/22/2019 20:52			0	0.206	0.113	0.097	0.099	0.006	0.119	
5/22/2019 20:53			0	0.206	0.112	0.097	0.106	0.006	0.042	
5/22/2019 20:54			0	0.206	0.112	0.097	0.116	0.006	0.011	
5/22/2019 20:55	12.3	90.1	0	0.206	0.113	0.098	0.102	0.006	0.013	42.42922;-76.50172
5/22/2019 20:56			0	0.206	0.113	0.098	0.115	0.006	0.018	
5/22/2019 20:57			0	0.206	0.113	0.098	0.122	0.006	0.01	
5/22/2019 20:58			0	0.206	0.113	0.098	0.105	0.006	0.017	
5/22/2019 20:59			0	0.206	0.113	0.099	0.121	0.006	0.026	
5/22/2019 21:00	12.3	89.1	0	0.206	0.113	0.099	0.107	0.006	0.011	42.42922;-76.50172
5/22/2019 21:01			0	0.206	0.113	0.099	0.123	0.006	0.008	
5/22/2019 21:02			0	0.206	0.112	0.099	0.119	0.006	0.007	
5/22/2019 21:03			0	0.206	0.112	0.1	0.115	0.006	0.006	
5/22/2019 21:04			0	0.206	0.112	0.1	0.115	0.007	0.007	
5/22/2019 21:05	12.3	88.1	0	0.206	0.111	0.1	0.1	0.007	0.007	42.42922;-76.50172
5/22/2019 21:06			0	0.206	0.111	0.1	0.107	0.007	0.006	
5/22/2019 21:07			0	0.206	0.111	0.1	0.118	0.007	0.007	
5/23/2019 12:16			0	0.033	0	0	0	0	0.018	
5/23/2019 12:17			0	0.033	0	0	0	0	0.016	
5/23/2019 12:18			0	0.033	0	0	0	0	0.015	
5/23/2019 12:19			0	0.033	0	0	0	0	0.015	
5/23/2019 12:20	12.6	100.2	0	0.033	0	0	0	0	0.015	
5/23/2019 12:20										42.43089;-76.49816
5/23/2019 12:21			0	0.033	0	0	0	0	0.015	
5/23/2019 12:22			0	0.033	0	0	0	0	0.015	
5/23/2019 12:23			0	0.033	0	0	0	0	0.014	
5/23/2019 12:24			0	0.033	0	0	0	0	0.014	
5/23/2019 12:25	12.6	109.3	0	0.033	0	0	0	0	0.015	42.43088;-76.49821
5/23/2019 12:26			0	0.033	0	0	0	0	0.016	
5/23/2019 12:27			0	0.033	0	0	0	0	0.016	
5/23/2019 12:28			0	0.033	0	0	0	0	0.015	
5/23/2019 12:29			0	0.033	0	0	0	0	0.015	
5/23/2019 12:30	12.6	104.3	0	0.033	0	0	0	0	0.015	42.4309;-76.49825
5/23/2019 12:31			0	0.033	0	0	0	0	0.015	
5/23/2019 12:32			0	0.033	0	0	0	0.001	0.015	
5/23/2019 12:33			0	0.033	0	0	0	0.001	0.014	
5/23/2019 12:34			0	0.033	0	0	0	0.001	0.014	
5/23/2019 12:35	12.6	98.2	0	0.033	0	0	0	0.001	0.015	42.4309;-76.49821
5/23/2019 12:36			0	0.033	0	0	0	0.001	0.015	
5/23/2019 12:37			0	0.033	0	0	0	0.001	0.014	
5/23/2019 12:38			0	0.033	0	0	0	0.001	0.014	
5/23/2019 12:39			0	0.033	0	0	0	0.001	0.015	
5/23/2019 12:40	12.6	111.3	0	0.033	0	0	0	0.001	0.016	42.43098;-76.49823
5/23/2019 12:41			0	0.033	0	0	0	0.001	0.015	
5/23/2019 12:42			0	0.033	0	0	0	0.001	0.014	
5/23/2019 12:43			0	0.033	0	0	0	0.001	0.014	
5/23/2019 12:44			0	0.033	0	0	0	0.001	0.014	
5/23/2019 12:45	12.6	98.2	0	0.033	0	0	0	0.001	0.016	42.43089;-76.49825
5/23/2019 12:46			0	0.033	0	0	0	0.001	0.017	
5/23/2019 12:47			0	0.033	0	0	0	0.001	0.015	
5/23/2019 12:48			0	0.033	0	0	0	0.001	0.015	
5/23/2019 12:49			0	0.033	0	0	0	0.001	0.015	
5/23/2019 12:50	12.6	103.2	0	0.033	0	0	0	0.001	0.015	42.43094;-76.49828
5/23/2019 12:51			0	0.033	0	0	0	0.001	0.015	
5/23/2019 12:52			0	0.033	0	0	0	0.001	0.015	
5/23/2019 12:53			0	0.033	0	0	0	0.001	0.015	
5/23/2019 12:54			0	0.033	0	0	0	0.001	0.014	
5/23/2019 12:55	12.6	98.2	0	0.033	0	0	0	0.001	0.014	42.43096;-76.49828
5/23/2019 12:56			0	0.033	0	0	0	0.001	0.014	
5/23/2019 12:57			0	0.033	0	0	0	0.001	0.014	
5/23/2019 12:58			0	0.033	0	0	0	0.001	0.014	
5/23/2019 12:59			0	0.033	0	0	0	0.001	0.015	
5/23/2019 13:00	12.6	105.3	0	0.033	0	0	0	0.001	0.014	42.43089;-76.49827
5/23/2019 13:01			0	0.033	0	0	0	0.001	0.014	
5/23/2019 13:02			0	0.033	0	0	0	0.001	0.015	
5/23/2019 13:03			0	0.033	0	0	0	0.001	0.015	
5/23/2019 13:04			0	0.033	0	0	0	0.001	0.013	
5/23/2019 13:05	12.6	104.3	0	0.033	0	0	0	0.002	0.013	42.43088;-76.49825
5/23/2019 13:06			0	0.033	0	0	0	0.002	0.013	
5/23/2019 13:07			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:08			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:09			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:10	12.5	99.2	0	0.033	0	0	0	0.002	0.014	42.43092;-76.49825
5/23/2019 13:11			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:12			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:13			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:14			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:15	12.6	98.2	0	0.033	0	0	0	0.002	0.014	42.4309;-76.49823
5/23/2019 13:16			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:17			0	0.033	0	0	0	0.002	0.015	
5/23/2019 13:18			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:19			0	0.033	0	0	0	0.002	0.015	
5/23/2019 13:20	12.6	99.2	0	0.033	0	0	0	0.002	0.015	42.43086;-76.49821
5/23/2019 13:21			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:22			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:23			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:24			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:25	12.6	98.2	0	0.033	0	0	0	0.002	0.014	42.43085;-76.49818
5/23/2019 13:26			0	0.033	0	0	0	0.002	0.015	
5/23/2019 13:27			0	0.033	0	0	0	0.002	0.016	
5/23/2019 13:28			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:29			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:30	12.6	106.3	0	0.033	0	0	0	0.002	0.014	42.43085;-76.49817
5/23/2019 13:31			0	0.033	0	0	0	0.002	0.013	
5/23/2019 13:32			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:33			0	0.033	0	0	0	0.002	0.015	
5/23/2019 13:34			0	0.033	0	0	0	0.002	0.014	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/23/2019 13:35	12.6	107.3	0	0.033	0	0	0	0.002	0.014	42.43083;-76.49815
5/23/2019 13:36			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:37			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:38			0	0.033	0	0	0	0.002	0.014	
5/23/2019 13:39			0	0.033	0	0	0	0.003	0.014	
5/23/2019 13:40	12.6	104.3	0	0.033	0	0	0	0.003	0.014	42.43082;-76.49817
5/23/2019 13:41			0	0.033	0	0	0	0.003	0.014	
5/23/2019 13:42			0	0.033	0	0	0	0.003	0.014	
5/23/2019 13:43			0	0.033	0	0	0	0.003	0.017	
5/23/2019 13:44			0	0.033	0	0	0	0.003	0.02	
5/23/2019 13:45	12.6	98.2	0	0.033	0	0	0	0.003	0.017	42.43084;-76.49816
5/23/2019 13:46			0	0.033	0	0	0	0.003	0.016	
5/23/2019 13:47			0	0.033	0	0	0	0.003	0.015	
5/23/2019 13:48			0	0.033	0	0	0	0.003	0.014	
5/23/2019 13:49			0	0.033	0	0	0	0.003	0.015	
5/23/2019 13:50	12.5	97.2	0	0.033	0	0	0	0.003	0.014	42.43084;-76.49815
5/23/2019 13:51			0	0.033	0	0	0	0.003	0.014	
5/23/2019 13:52			0	0.033	0	0	0	0.003	0.014	
5/23/2019 13:53			0	0.033	0	0	0	0.003	0.014	
5/23/2019 13:54			0	0.033	0	0	0	0.003	0.014	
5/23/2019 13:55	12.6	101.2	0	0.033	0	0	0	0.003	0.014	42.43085;-76.49818
5/23/2019 13:56			0	0.033	0	0	0	0.003	0.014	
5/23/2019 13:57			0	0.033	0	0	0	0.003	0.014	
5/23/2019 13:58			0	0.033	0	0	0	0.003	0.014	
5/23/2019 13:59			0	0.033	0	0	0	0.003	0.014	
5/23/2019 14:00	12.5	99.2	0	0.033	0	0	0	0.003	0.019	42.43083;-76.49816
5/23/2019 14:01			0	0.033	0	0	0	0.003	0.017	
5/23/2019 14:02			0	0.033	0	0	0	0.003	0.013	
5/23/2019 14:03			0	0.033	0	0	0	0.003	0.014	
5/23/2019 14:04			0	0.033	0	0	0	0.003	0.014	
5/23/2019 14:05	12.6	98.2	0	0.033	0	0	0	0.003	0.014	42.43083;-76.49814
5/23/2019 14:06			0	0.033	0	0	0	0.003	0.013	
5/23/2019 14:07			0	0.033	0	0	0	0.003	0.013	
5/23/2019 14:08			0	0.033	0	0	0	0.003	0.013	
5/23/2019 14:09			0	0.033	0	0	0	0.003	0.013	
5/23/2019 14:10	12.5	97.2	0	0.033	0	0	0	0.003	0.013	42.43085;-76.49814
5/23/2019 14:11			0	0.033	0	0	0	0.003	0.013	
5/23/2019 14:12			0	0.033	0	0	0	0.003	0.014	
5/23/2019 14:13			0	0.033	0	0	0.006	0.004	0.013	
5/23/2019 14:14			0	0.033	0	0	0.003	0.004	0.016	
5/23/2019 14:15	12.5	125.5	0	0.033	0	0	0.009	0.004	0.021	42.43085;-76.49812
5/23/2019 14:16			0	0.033	0.001	0	0	0.004	0.022	
5/23/2019 14:17			0	0.033	0.001	0	0.007	0.004	0.025	
5/23/2019 14:18			0	0.033	0.002	0	0	0.004	0.015	
5/23/2019 14:19			0	0.033	0.002	0	0.004	0.004	0.013	
5/23/2019 14:20	12.5	97.2	0	0.033	0.002	0	0.001	0.004	0.012	42.43084;-76.49812
5/23/2019 14:21			0	0.033	0.002	0	0.005	0.004	0.012	
5/23/2019 14:22			0	0.033	0.002	0	0.001	0.004	0.012	
5/23/2019 14:23			0	0.033	0.003	0	0.003	0.004	0.012	
5/23/2019 14:24			0	0.033	0.003	0	0	0.004	0.013	
5/23/2019 14:25	12.5	99.2	0	0.033	0.003	0	0.009	0.004	0.012	42.43085;-76.49812
5/23/2019 14:26			0	0.033	0.004	0	0.009	0.004	0.013	
5/23/2019 14:27			0	0.038	0.006	0	0.034	0.004	0.013	
5/23/2019 14:28			0	0.047	0.006	0	0.013	0.004	0.013	
5/23/2019 14:29			0	0.047	0.007	0	0.017	0.004	0.013	
5/23/2019 14:30	12.5	102.2	0	0.047	0.007	0	0.006	0.004	0.013	42.43089;-76.49811
5/23/2019 14:31			0	0.047	0.008	0	0.021	0.004	0.012	
5/23/2019 14:32			0	0.047	0.008	0	0.015	0.004	0.013	
5/23/2019 14:33			0	0.047	0.009	0	0.007	0.004	0.014	
5/23/2019 14:34			0	0.047	0.01	0	0.005	0.004	0.014	
5/23/2019 14:35	12.5	111.3	0	0.047	0.011	0	0.03	0.004	0.014	42.4309;-76.49811
5/23/2019 14:36			0	0.047	0.012	0	0.013	0.004	0.013	
5/23/2019 14:37			0	0.047	0.013	0	0.012	0.004	0.013	
5/23/2019 14:38			0	0.047	0.013	0	0.02	0.004	0.013	
5/23/2019 14:39			0	0.052	0.014	0	0.052	0.004	0.012	
5/23/2019 14:40	12.5	99.2	0	0.075	0.016	0	0.035	0.004	0.012	42.43091;-76.49812
5/23/2019 14:41			0	0.075	0.017	0	0.029	0.004	0.012	
5/23/2019 14:42			0	0.075	0.017	0	0.031	0.004	0.012	
5/23/2019 14:43			0	0.075	0.018	0	0.024	0.004	0.013	
5/23/2019 14:44			0	0.075	0.019	0	0.04	0.004	0.013	
5/23/2019 14:45	12.5	105.3	0	0.075	0.021	0	0.041	0.004	0.012	42.43092;-76.49811
5/23/2019 14:46			0	0.075	0.022	0.001	0.024	0.004	0.013	
5/23/2019 14:47			0	0.075	0.025	0.001	0.05	0.004	0.013	
5/23/2019 14:48			0	0.075	0.026	0.001	0.036	0.005	0.014	
5/23/2019 14:49			0	0.075	0.027	0.001	0.064	0.005	0.013	
5/23/2019 14:50	12.5	107.3	0	0.075	0.029	0.001	0.043	0.005	0.013	42.43089;-76.49812
5/23/2019 14:51			0	0.075	0.031	0.001	0.052	0.005	0.012	
5/23/2019 14:52			0	0.075	0.032	0.001	0.029	0.005	0.013	
5/23/2019 14:53			0	0.075	0.033	0.001	0.031	0.005	0.013	
5/23/2019 14:54			0	0.075	0.035	0.001	0.052	0.005	0.012	
5/23/2019 14:55	12.5	107.3	0	0.075	0.036	0.001	0.025	0.005	0.016	42.43093;-76.4982
5/23/2019 14:56			0	0.075	0.036	0.001	0.041	0.005	0.015	
5/23/2019 14:57			0	0.075	0.037	0.001	0.034	0.005	0.014	
5/23/2019 14:58			0	0.075	0.038	0.002	0.054	0.005	0.013	
5/23/2019 14:59			0	0.075	0.04	0.002	0.054	0.005	0.014	
5/23/2019 15:00	12.5	105.3	0	0.075	0.04	0.002	0.033	0.005	0.015	42.43087;-76.49812
5/23/2019 15:01			0	0.075	0.04	0.002	0.048	0.005	0.013	
5/23/2019 15:02			0	0.075	0.04	0.002	0.042	0.005	0.013	
5/23/2019 15:03			0	0.075	0.04	0.002	0.038	0.005	0.014	
5/23/2019 15:04			0	0.075	0.04	0.002	0.049	0.005	0.013	
5/23/2019 15:05	12.5	98.2	0	0.075	0.04	0.002	0.046	0.005	0.014	42.43085;-76.4981
5/23/2019 15:06			0	0.075	0.04	0.002	0.053	0.005	0.014	
5/23/2019 15:07			0	0.078	0.041	0.002	0.035	0.005	0.014	
5/23/2019 15:08			0	0.078	0.041	0.002	0.061	0.005	0.013	
5/23/2019 15:09			0	0.078	0.041	0.003	0.046	0.005	0.013	
5/23/2019 15:10	12.5	109.3	0	0.078	0.042	0.003	0.035	0.005	0.014	42.43085;-76.49809
5/23/2019 15:11			0	0.078	0.043	0.003	0.061	0.005	0.014	
5/23/2019 15:12			0	0.078	0.043	0.003	0.064	0.005	0.013	
5/23/2019 15:13			0	0.078	0.044	0.003	0.066	0.005	0.013	
5/23/2019 15:14			0	0.078	0.044	0.003	0.041	0.005	0.013	
5/23/2019 15:15	12.5	114.4	0	0.078	0.045	0.003	0.069	0.005	0.013	42.43088;-76.4981
5/23/2019 15:16			0	0.078	0.046	0.003	0.065	0.005	0.014	
5/23/2019 15:17			0	0.079	0.048	0.003	0.032	0.005	0.014	
5/23/2019 15:18			0	0.098	0.049	0.004	0.067	0.005	0.015	
5/23/2019 15:19			0	0.098	0.051	0.004	0.071	0.005	0.014	
5/23/2019 15:20	12.5	99.2	0	0.098	0.053	0.004	0.058	0.005	0.014	42.43097;-76.49818
5/23/2019 15:21			0	0.098	0.053	0.004	0.059	0.005	0.013	
5/23/2019 15:22			0	0.098	0.053	0.004	0.042	0.005	0.013	
5/23/2019 15:23			0	0.098	0.054	0.004	0.046	0.006	0.013	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/23/2019 15:24			0	0.098	0.054	0.004	0.068	0.006	0.013	
5/23/2019 15:25	12.5	105.3	0	0.098	0.055	0.004	0.074	0.006	0.013	42.43095;-76.49818
5/23/2019 15:26			0	0.1	0.056	0.004	0.044	0.006	0.013	
5/23/2019 15:27			0	0.1	0.056	0.005	0.077	0.006	0.014	
5/23/2019 15:28			0	0.1	0.058	0.005	0.068	0.006	0.014	
5/23/2019 15:29			0	0.1	0.058	0.005	0.06	0.006	0.014	
5/23/2019 15:30	12.5	97.2	0	0.1	0.058	0.005	0.051	0.006	0.013	42.43092;-76.49818
5/23/2019 15:31			0	0.1	0.058	0.005	0.061	0.006	0.013	
5/23/2019 15:32			0	0.1	0.058	0.005	0.055	0.006	0.014	
5/23/2019 15:33			0	0.1	0.058	0.005	0.061	0.006	0.014	
5/23/2019 15:34			0	0.1	0.057	0.005	0.059	0.006	0.014	
5/23/2019 15:35	12.5	106.3	0	0.1	0.058	0.006	0.054	0.006	0.014	42.43097;-76.49822
5/23/2019 15:36			0	0.1	0.059	0.006	0.063	0.006	0.014	
5/23/2019 15:37			0	0.1	0.059	0.006	0.065	0.006	0.014	
5/23/2019 15:38			0	0.1	0.06	0.006	0.078	0.006	0.014	
5/23/2019 15:39			0	0.1	0.062	0.006	0.058	0.006	0.014	
5/23/2019 15:40	12.5	107.3	0	0.1	0.062	0.006	0.062	0.006	0.014	42.43094;-76.4982
5/23/2019 15:41			0	0.1	0.062	0.006	0.059	0.006	0.014	
5/23/2019 15:42			0	0.1	0.061	0.007	0.065	0.006	0.014	
5/23/2019 15:43			0	0.1	0.061	0.007	0.06	0.006	0.014	
5/23/2019 15:44			0	0.1	0.061	0.007	0.062	0.006	0.014	
5/23/2019 15:45	12.5	104.3	0	0.1	0.061	0.007	0.062	0.006	0.014	42.4309;-76.49825
5/23/2019 15:46			0	0.1	0.061	0.007	0.049	0.006	0.014	
5/23/2019 15:47			0	0.1	0.06	0.007	0.069	0.006	0.014	
5/23/2019 15:48			0	0.1	0.059	0.007	0.044	0.006	0.014	
5/23/2019 15:49			0	0.1	0.059	0.007	0.061	0.006	0.014	
5/23/2019 15:50	12.5	99.2	0	0.1	0.059	0.007	0.065	0.006	0.013	42.4309;-76.49818
5/23/2019 15:51			0	0.1	0.058	0.008	0.061	0.006	0.013	
5/23/2019 15:52			0	0.1	0.059	0.008	0.051	0.006	0.013	
5/23/2019 15:53			0	0.1	0.058	0.008	0.059	0.006	0.014	
5/23/2019 15:54			0	0.1	0.058	0.008	0.06	0.006	0.014	
5/23/2019 15:55	12.4	109.3	0	0.1	0.058	0.008	0.064	0.006	0.013	42.43088;-76.49815
5/23/2019 15:56			0	0.1	0.058	0.008	0.051	0.006	0.014	
5/23/2019 15:57			0	0.1	0.058	0.008	0.069	0.006	0.015	
5/23/2019 15:58			0	0.1	0.058	0.008	0.067	0.007	0.014	
5/23/2019 15:59			0	0.1	0.058	0.009	0.043	0.007	0.014	
5/23/2019 16:00	12.5	104.3	0	0.1	0.058	0.009	0.05	0.007	0.015	42.43084;-76.49821
5/23/2019 16:01			0	0.1	0.057	0.009	0.065	0.007	0.015	
5/23/2019 16:02			0	0.1	0.058	0.009	0.081	0.007	0.015	
5/23/2019 16:03			0	0.1	0.057	0.009	0.05	0.007	0.015	
5/23/2019 16:04			0	0.1	0.057	0.009	0.063	0.007	0.014	
5/23/2019 16:05	12.4	100.2	0	0.1	0.057	0.009	0.066	0.007	0.015	42.43087;-76.49815
5/23/2019 16:06			0	0.1	0.058	0.009	0.064	0.007	0.015	
5/23/2019 16:07			0	0.1	0.058	0.01	0.07	0.007	0.015	
5/23/2019 16:08			0	0.1	0.058	0.01	0.083	0.007	0.015	
5/23/2019 16:09			0	0.1	0.059	0.01	0.061	0.007	0.016	
5/23/2019 16:10	12.5	100.2	0	0.1	0.058	0.01	0.046	0.007	0.016	42.43085;-76.49814
5/23/2019 16:11			0	0.1	0.058	0.01	0.035	0.007	0.015	
5/23/2019 16:12			0	0.1	0.059	0.01	0.042	0.007	0.015	
5/23/2019 16:13			0	0.1	0.059	0.01	0.061	0.007	0.015	
5/23/2019 16:14			0	0.1	0.06	0.01	0.066	0.007	0.015	
5/23/2019 16:15	12.4	134.6	0	0.1	0.061	0.011	0.073	0.007	0.016	
5/23/2019 16:15										42.43087;-76.49817
5/23/2019 16:16			0	0.1	0.062	0.011	0.077	0.007	0.015	
5/23/2019 16:17			0	0.1	0.063	0.011	0.082	0.007	0.015	
5/23/2019 16:18			0	0.1	0.064	0.011	0.029	0.007	0.016	
5/23/2019 16:19			0	0.1	0.065	0.011	0.085	0.007	0.015	
5/23/2019 16:20	12.4	131.6	0	0.1	0.066	0.011	0.067	0.007	0.015	
5/23/2019 16:20										42.43084;-76.49816
5/23/2019 16:21			0	0.1	0.066	0.011	0.065	0.007	0.022	
5/23/2019 16:22			0	0.1	0.066	0.012	0.073	0.007	0.02	
5/23/2019 16:23			0	0.1	0.067	0.012	0.071	0.007	0.02	
5/23/2019 16:24			0	0.1	0.067	0.012	0.071	0.007	0.016	
5/23/2019 16:25	12.4	101.2	0	0.1	0.068	0.012	0.08	0.007	0.016	
5/23/2019 16:25										42.43084;-76.49817
5/23/2019 16:26			0	0.1	0.069	0.012	0.081	0.007	0.016	
5/23/2019 16:27			0	0.1	0.07	0.012	0.083	0.007	0.015	
5/23/2019 16:28			0	0.1	0.07	0.013	0.065	0.007	0.015	
5/23/2019 16:29			0	0.1	0.07	0.013	0.08	0.008	0.014	
5/23/2019 16:30	12.4	99.2	0	0.1	0.07	0.013	0.046	0.008	0.015	
5/23/2019 16:30										42.43081;-76.49818
5/23/2019 16:31			0	0.107	0.07	0.013	0.065	0.008	0.016	
5/23/2019 16:32			0	0.107	0.07	0.013	0.067	0.008	0.016	
5/23/2019 16:33			0	0.107	0.07	0.013	0.072	0.008	0.017	
5/23/2019 16:34			0	0.107	0.07	0.013	0.057	0.008	0.019	
5/23/2019 16:35	12.4	109.3	0	0.107	0.07	0.014	0.066	0.008	0.015	
5/23/2019 16:35										42.4308;-76.49818
5/23/2019 16:36			0	0.107	0.069	0.014	0.075	0.008	0.015	
5/23/2019 16:37			0	0.107	0.069	0.014	0.071	0.008	0.015	
5/23/2019 16:38			0	0.107	0.069	0.014	0.079	0.008	0.017	
5/23/2019 16:39			0	0.107	0.069	0.014	0.07	0.008	0.017	
5/23/2019 16:40	12.4	100.2	0	0.107	0.068	0.014	0.069	0.008	0.016	
5/23/2019 16:40										42.43079;-76.49815
5/23/2019 16:41			0	0.107	0.068	0.014	0.068	0.008	0.017	
5/23/2019 16:42			0	0.107	0.068	0.015	0.078	0.008	0.016	
5/23/2019 16:43			0	0.107	0.068	0.015	0.08	0.008	0.017	
5/23/2019 16:44			0	0.107	0.068	0.015	0.068	0.008	0.016	
5/23/2019 16:45	12.4	99.2	0	0.107	0.068	0.015	0.062	0.008	0.016	
5/23/2019 16:45										42.43081;-76.49815
5/23/2019 16:46			0	0.107	0.067	0.015	0.067	0.008	0.016	
5/23/2019 16:47			0	0.107	0.066	0.015	0.058	0.008	0.016	
5/23/2019 16:48			0	0.107	0.066	0.015	0.058	0.008	0.016	
5/23/2019 16:49			0	0.107	0.065	0.015	0.053	0.008	0.016	
5/23/2019 16:50	12.4	99.2	0	0.107	0.064	0.016	0.06	0.008	0.015	
5/23/2019 16:50										42.4308;-76.49818
5/23/2019 16:51			0	0.107	0.064	0.016	0.067	0.008	0.016	
5/23/2019 16:52			0	0.107	0.064	0.016	0.056	0.008	0.015	
5/23/2019 16:53			0	0.107	0.064	0.016	0.052	0.008	0.016	
5/23/2019 16:54			0	0.107	0.062	0.016	0.048	0.008	0.016	
5/23/2019 16:55	12.4	103.2	0	0.107	0.061	0.016	0.053	0.008	0.016	
5/23/2019 16:55										42.43079;-76.49818
5/23/2019 16:56			0	0.107	0.059	0.016	0.031	0.008	0.016	
5/23/2019 16:57			0	0.107	0.056	0.016	0.029	0.008	0.015	
5/23/2019 16:58			0	0.107	0.053	0.016	0.027	0.008	0.017	
5/23/2019 16:59			0	0.107	0.05	0.016	0.022	0.009	0.016	
5/23/2019 17:00	12.4	100.2	0	0.107	0.046	0.016	0.016	0.009	0.017	
5/23/2019 17:00										42.43082;-76.49813
5/23/2019 17:01			0	0.107	0.043	0.016	0.01	0.009	0.017	
5/23/2019 17:02			0	0.107	0.04	0.016	0.01	0.009	0.017	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/23/2019 17:03			0	0.107	0.037	0.016	0.01	0.009	0.017	
5/23/2019 17:04			0	0.107	0.034	0.017	0.004	0.009	0.017	
5/23/2019 17:05	12.4	98.2	0	0.107	0.03	0.017	0.009	0.009	0.016	
5/23/2019 17:05										42.43087;-76.49814
5/23/2019 17:06			0	0.107	0.027	0.017	0.005	0.009	0.018	
5/23/2019 17:07			0	0.107	0.023	0.017	0	0.009	0.018	
5/23/2019 17:08			0	0.107	0.02	0.017	0.008	0.009	0.018	
5/23/2019 17:09			0	0.107	0.017	0.017	0.003	0.009	0.019	
5/23/2019 17:10	12.4	105.3	0	0.107	0.013	0.017	0.007	0.009	0.017	
5/23/2019 17:10										42.43085;-76.49814
5/23/2019 17:11			0	0.107	0.011	0.017	0.002	0.009	0.018	
5/23/2019 17:12			0	0.107	0.009	0.017	0	0.009	0.017	
5/23/2019 17:13			0	0.107	0.008	0.017	0.001	0.009	0.017	
5/23/2019 17:14			0	0.107	0.006	0.017	0.002	0.009	0.017	
5/23/2019 17:15	12.3	103.2	0	0.107	0.005	0.017	0	0.009	0.017	
5/23/2019 17:15										42.43084;-76.49815
5/23/2019 17:16			0	0.107	0.004	0.017	0	0.009	0.016	
5/23/2019 17:17			0	0.107	0.003	0.017	0	0.009	0.017	
5/23/2019 17:18			0	0.107	0.003	0.017	0	0.009	0.017	
5/23/2019 17:19			0	0.107	0.002	0.017	0.004	0.009	0.017	
5/23/2019 17:20	12.3	110.3	0	0.107	0.002	0.017	0	0.009	0.017	
5/23/2019 17:20										42.43085;-76.49817
5/23/2019 17:21			0	0.107	0.001	0.017	0	0.009	0.018	
5/23/2019 17:22			0	0.107	0.001	0.017	0	0.009	0.017	
5/23/2019 17:23			0	0.107	0.001	0.017	0	0.009	0.018	
5/23/2019 17:24			0	0.107	0	0.017	0	0.009	0.017	
5/23/2019 17:25	12.3	99.2	0	0.107	0	0.017	0	0.009	0.017	
5/23/2019 17:25										42.43081;-76.49816
5/23/2019 17:26			0	0.107	0	0.017	0	0.009	0.017	
5/23/2019 17:27			0	0.107	0	0.017	0	0.01	0.017	
5/23/2019 17:28			0	0.107	0	0.017	0	0.01	0.017	
5/23/2019 17:29			0	0.107	0	0.017	0	0.01	0.017	
5/23/2019 17:30	12.3	98.2	0	0.107	0	0.017	0	0.01	0.016	
5/23/2019 17:30										42.43087;-76.49815
5/23/2019 17:31			0	0.107	0	0.017	0	0.01	0.017	
5/23/2019 17:32			0	0.107	0	0.017	0	0.01	0.017	
5/23/2019 17:33			0	0.107	0	0.017	0	0.01	0.017	
5/23/2019 17:34			0	0.107	0	0.017	0	0.01	0.017	
5/23/2019 17:35	12.3	108.3	0	0.107	0	0.017	0	0.01	0.017	
5/23/2019 17:35										42.43086;-76.49812
5/23/2019 17:36			0	0.107	0	0.017	0	0.01	0.017	
5/23/2019 17:37			0	0.107	0	0.017	0	0.01	0.018	
5/23/2019 17:38			0	0.107	0	0.017	0	0.01	0.018	
5/23/2019 17:39			0	0.107	0	0.017	0	0.01	0.018	
5/23/2019 17:40	12.3	106.3	0	0.107	0	0.017	0	0.01	0.018	
5/23/2019 17:40										42.43089;-76.49812
5/23/2019 17:41			0	0.107	0	0.017	0	0.01	0.018	
5/23/2019 17:42			0	0.107	0	0.017	0	0.01	0.019	
5/23/2019 17:43			0	0.107	0	0.017	0	0.01	0.019	
5/23/2019 17:44			0	0.107	0	0.017	0	0.01	0.019	
5/23/2019 17:45	12.3	134.6	0	0.107	0	0.017	0	0.01	0.019	
5/23/2019 17:45										42.43088;-76.49813
5/23/2019 17:46			0	0.107	0	0.017	0	0.01	0.019	
5/23/2019 17:47			0	0.107	0	0.017	0	0.01	0.019	
5/23/2019 17:48			0	0.107	0	0.017	0	0.01	0.019	
5/23/2019 17:49			0	0.107	0	0.017	0	0.01	0.017	
5/23/2019 17:50	12.3	107.3	0	0.107	0	0.017	0	0.01	0.018	
5/23/2019 17:50										42.43088;-76.49812
5/23/2019 17:51			0	0.107	0	0.017	0	0.01	0.017	
5/23/2019 17:52			0	0.107	0	0.017	0	0.01	0.018	
5/23/2019 17:53			0	0.107	0	0.017	0	0.01	0.018	
5/23/2019 17:54			0	0.107	0	0.017	0	0.011	0.018	
5/23/2019 17:55	12.3	110.3	0	0.107	0	0.017	0	0.011	0.018	
5/23/2019 17:55										42.43085;-76.49811
5/23/2019 17:56			0	0.107	0	0.017	0	0.011	0.017	
5/23/2019 17:57			0	0.107	0	0.017	0.001	0.011	0.017	
5/23/2019 17:58			0	0.107	0	0.017	0	0.011	0.018	
5/23/2019 17:59			0	0.107	0	0.017	0	0.011	0.018	
5/23/2019 18:00	12.3	125.5	0	0.107	0	0.017	0.002	0.011	0.018	
5/23/2019 18:00										42.43091;-76.49813
5/23/2019 18:01			0	0.107	0	0.017	0.007	0.011	0.018	
5/23/2019 18:02			0	0.107	0	0.017	0.006	0.011	0.018	
5/23/2019 18:03			0	0.107	0	0.017	0	0.011	0.018	
5/23/2019 18:04			0	0.107	0	0.017	0	0.011	0.018	
5/23/2019 18:05	12.3	106.3	0	0.107	0	0.017	0	0.011	0.018	
5/23/2019 18:05										42.43088;-76.49812
5/23/2019 18:06			0	0.107	0	0.017	0	0.011	0.019	
5/23/2019 18:07			0	0.107	0	0.017	0	0.011	0.019	
5/23/2019 18:08			0	0.107	0.001	0.017	0.01	0.011	0.018	
5/23/2019 18:09			0	0.107	0.001	0.017	0.002	0.011	0.018	
5/23/2019 18:10	12.3	103.2	0	0.107	0.001	0.017	0.001	0.011	0.019	
5/23/2019 18:10										42.43089;-76.49815
5/23/2019 18:11			0	0.107	0.002	0.017	0	0.011	0.021	
5/23/2019 18:12			0	0.107	0.002	0.017	0	0.011	0.019	
5/23/2019 18:13			0	0.107	0.002	0.017	0	0.011	0.018	
5/23/2019 18:14			0	0.107	0.002	0.017	0	0.011	0.019	
5/23/2019 18:15	12.3	105.3	0	0.107	0.002	0.017	0	0.011	0.018	
5/23/2019 18:15										42.43092;-76.49817
5/23/2019 18:16			0	0.107	0.002	0.017	0	0.011	0.019	
5/23/2019 18:17			0	0.107	0.002	0.017	0	0.011	0.018	
5/23/2019 18:18			0	0.107	0.001	0.017	0	0.011	0.018	
5/23/2019 18:19			0	0.107	0.001	0.017	0	0.011	0.018	
5/23/2019 18:20	12.3	101.2	0	0.107	0.001	0.017	0	0.012	0.018	
5/23/2019 18:20										42.43091;-76.49816
5/23/2019 18:21			0	0.107	0.001	0.017	0.002	0.012	0.019	
5/23/2019 18:22			0	0.107	0.001	0.017	0	0.012	0.019	
5/23/2019 18:23			0	0.107	0.001	0.017	0.008	0.012	0.018	
5/23/2019 18:24			0	0.107	0.001	0.017	0	0.012	0.018	
5/23/2019 18:25	12.3	100.2	0	0.107	0.001	0.017	0	0.012	0.018	
5/23/2019 18:25										42.4309;-76.49815
5/23/2019 18:26			0	0.107	0	0.017	0	0.012	0.019	
5/23/2019 18:27			0	0.107	0	0.017	0	0.012	0.018	
5/23/2019 18:28			0	0.107	0	0.017	0	0.012	0.019	
5/23/2019 18:29			0	0.107	0	0.017	0.001	0.012	0.018	
5/23/2019 18:30	12.3	109.3	0	0.107	0	0.017	0.022	0.012	0.018	
5/23/2019 18:30										42.4309;-76.49815
5/23/2019 18:31			0	0.107	0	0.017	0.006	0.012	0.019	
5/23/2019 18:32			0	0.107	0	0.017	0	0.012	0.019	
5/23/2019 18:33			0	0.107	0	0.017	0.016	0.012	0.019	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/23/2019 18:34			0	0.107	0.001	0.017	0	0.012	0.019	
5/23/2019 18:35	12.2	107.3	0	0.107	0.001	0.017	0	0.012	0.019	
5/23/2019 18:35										42.43091;-76.49815
5/23/2019 18:36			0	0.107	0.001	0.017	0	0.012	0.018	
5/23/2019 18:37			0	0.107	0.001	0.017	0	0.012	0.019	
5/23/2019 18:38			0	0.107	0.001	0.017	0	0.012	0.02	
5/23/2019 18:39			0	0.107	0.001	0.017	0.005	0.012	0.019	
5/23/2019 18:40	12.3	99.2	0	0.107	0.001	0.017	0	0.012	0.02	
5/23/2019 18:40										42.43092;-76.49815
5/23/2019 18:41			0	0.107	0.002	0.017	0.017	0.012	0.019	
5/23/2019 18:42			0	0.107	0.002	0.017	0	0.012	0.019	
5/23/2019 18:43			0	0.107	0.003	0.017	0	0.012	0.019	
5/23/2019 18:44			0	0.107	0.003	0.017	0	0.012	0.019	
5/23/2019 18:45	12.2	101.2	0	0.107	0.004	0.017	0.002	0.013	0.019	
5/23/2019 18:45										42.43097;-76.49818
5/23/2019 18:46			0	0.107	0.005	0.017	0.018	0.013	0.02	
5/23/2019 18:47			0	0.107	0.005	0.017	0.003	0.013	0.02	
5/23/2019 18:48			0	0.107	0.006	0.017	0.01	0.013	0.02	
5/23/2019 18:49			0	0.107	0.006	0.017	0	0.013	0.019	
5/23/2019 18:50	12.2	104.3	0	0.107	0.006	0.017	0.011	0.013	0.018	
5/23/2019 18:50										42.43096;-76.49815
5/23/2019 18:51			0	0.107	0.006	0.017	0.014	0.013	0.018	
5/23/2019 18:52			0	0.107	0.007	0.017	0.002	0.013	0.019	
5/23/2019 18:53			0	0.107	0.007	0.017	0	0.013	0.02	
5/23/2019 18:54			0	0.107	0.008	0.017	0.009	0.013	0.019	
5/23/2019 18:55	12.2	110.3	0	0.107	0.008	0.017	0.024	0.013	0.018	
5/23/2019 18:55										42.43092;-76.49815
5/23/2019 18:56			0	0.107	0.009	0.017	0.015	0.013	0.019	
5/23/2019 18:57			0	0.107	0.01	0.017	0.011	0.013	0.019	
5/23/2019 18:58			0	0.107	0.01	0.017	0	0.013	0.02	
5/23/2019 18:59			0	0.107	0.011	0.017	0.007	0.013	0.019	
5/23/2019 19:00	12.2	104.3	0	0.107	0.011	0.017	0.022	0.013	0.019	
5/23/2019 19:00										42.43091;-76.49815
5/23/2019 19:01			0	0.107	0.012	0.017	0.03	0.013	0.019	
5/23/2019 19:02			0	0.107	0.013	0.017	0.032	0.013	0.019	
5/23/2019 19:03			0	0.107	0.014	0.017	0	0.013	0.02	
5/23/2019 19:04			0	0.107	0.016	0.017	0.03	0.013	0.02	
5/23/2019 19:05	12.2	101.2	0	0.107	0.018	0.017	0.012	0.013	0.019	
5/23/2019 19:05										42.43078;-76.49812
5/23/2019 19:06			0	0.107	0.019	0.018	0.029	0.013	0.019	
5/23/2019 19:07			0	0.107	0.02	0.018	0.028	0.013	0.019	
5/23/2019 19:08			0	0.107	0.022	0.018	0.043	0.013	0.018	
5/23/2019 19:09			0	0.107	0.023	0.018	0.044	0.013	0.018	
5/23/2019 19:10	12.2	107.3	0	0.107	0.024	0.018	0.035	0.013	0.02	
5/23/2019 19:10										42.43084;-76.49815
5/23/2019 19:11			0	0.107	0.025	0.018	0.044	0.014	0.02	
5/23/2019 19:12			0	0.107	0.027	0.018	0.028	0.014	0.019	
5/23/2019 19:13			0	0.107	0.028	0.018	0.032	0.014	0.02	
5/23/2019 19:14			0	0.107	0.029	0.018	0.034	0.014	0.019	
5/23/2019 19:15	12.2	105.3	0	0.107	0.03	0.018	0.016	0.014	0.019	
5/23/2019 19:15										42.43087;-76.49818
5/23/2019 19:16			0	0.107	0.03	0.018	0.016	0.014	0.018	
5/23/2019 19:17			0	0.107	0.03	0.018	0.046	0.014	0.019	
5/23/2019 19:18			0	0.107	0.031	0.018	0.064	0.014	0.02	
5/23/2019 19:19			0	0.107	0.032	0.018	0.014	0.014	0.02	
5/23/2019 19:20	12.2	100.2	0	0.107	0.032	0.019	0.045	0.014	0.02	
5/23/2019 19:20										42.43086;-76.4981
5/23/2019 19:21			0	0.107	0.034	0.019	0.04	0.014	0.02	
5/23/2019 19:22			0	0.107	0.034	0.019	0.014	0.014	0.02	
5/23/2019 19:23			0	0.107	0.035	0.019	0.028	0.014	0.019	
5/23/2019 19:24			0	0.107	0.036	0.019	0.056	0.014	0.02	
5/23/2019 19:25	12.2	105.3	0	0.107	0.037	0.019	0.024	0.014	0.02	
5/23/2019 19:25										42.43085;-76.49816
5/23/2019 19:26			0	0.107	0.036	0.019	0.029	0.014	0.019	
5/23/2019 19:27			0	0.107	0.037	0.019	0.056	0.014	0.02	
5/23/2019 19:28			0	0.107	0.038	0.019	0.049	0.014	0.02	
5/23/2019 19:29			0	0.107	0.039	0.019	0.052	0.014	0.02	
5/23/2019 19:30	12.2	100.2	0	0.107	0.041	0.019	0.055	0.014	0.02	42.43083;-76.49816
5/23/2019 19:31			0	0.107	0.042	0.02	0.054	0.014	0.035	
5/23/2019 19:32			0	0.107	0.044	0.02	0.065	0.014	0.022	
5/23/2019 19:33			0	0.107	0.045	0.02	0.066	0.014	0.021	
5/23/2019 19:34			0	0.107	0.046	0.02	0.052	0.015	0.02	
5/23/2019 19:35	12.2	103.2	0	0.107	0.047	0.02	0.027	0.015	0.02	42.43086;-76.49814
5/23/2019 19:36			0	0.107	0.048	0.02	0.045	0.015	0.019	
5/23/2019 19:37			0	0.107	0.049	0.02	0.042	0.015	0.019	
5/23/2019 19:38			0	0.107	0.05	0.02	0.047	0.015	0.02	
5/23/2019 19:39			0	0.107	0.052	0.02	0.05	0.015	0.02	
5/23/2019 19:40	12.2	103.2	0	0.107	0.053	0.021	0.054	0.015	0.019	42.43083;-76.49812
5/23/2019 19:41			0	0.107	0.055	0.021	0.069	0.015	0.019	
5/23/2019 19:42			0	0.107	0.057	0.021	0.063	0.015	0.019	
5/23/2019 19:43			0	0.107	0.058	0.021	0.06	0.015	0.019	
5/23/2019 19:44			0	0.109	0.06	0.021	0.085	0.015	0.02	
5/23/2019 19:45	12.2	101.2	0	0.109	0.061	0.021	0.063	0.015	0.019	42.43085;-76.49812
5/23/2019 19:46			0	0.109	0.063	0.021	0.088	0.015	0.019	
5/23/2019 19:47			0	0.109	0.064	0.022	0.05	0.015	0.019	
5/23/2019 19:48			0	0.109	0.064	0.022	0.077	0.015	0.019	
5/23/2019 19:49			0	0.109	0.065	0.022	0.071	0.015	0.02	
5/23/2019 19:50	12.2	112.4	0	0.109	0.065	0.022	0.08	0.015	0.02	42.43085;-76.49815
5/23/2019 19:51			0	0.109	0.067	0.022	0.07	0.015	0.02	
5/23/2019 19:52			0	0.109	0.068	0.022	0.053	0.015	0.02	
5/23/2019 19:53			0	0.109	0.069	0.023	0.062	0.015	0.019	
5/23/2019 19:54			0	0.109	0.069	0.023	0.069	0.015	0.019	
5/23/2019 19:55	12.2	102.2	0	0.109	0.069	0.023	0.075	0.015	0.019	42.43089;-76.49807
5/23/2019 19:56			0	0.109	0.07	0.023	0.062	0.015	0.019	
5/23/2019 19:57			0	0.109	0.07	0.023	0.073	0.015	0.02	
5/23/2019 19:58			0	0.109	0.07	0.023	0.07	0.015	0.019	
5/23/2019 19:59			0	0.109	0.07	0.023	0.073	0.016	0.02	
5/23/2019 20:00	12.2	101.2	0	0.109	0.069	0.024	0.067	0.016	0.021	42.43082;-76.49806
5/23/2019 20:01			0	0.109	0.069	0.024	0.074	0.016	0.019	
5/23/2019 20:02			0	0.109	0.069	0.024	0.065	0.016	0.021	
5/23/2019 20:03			0	0.109	0.068	0.024	0.062	0.016	0.019	
5/23/2019 20:04			0	0.109	0.067	0.024	0.062	0.016	0.019	
5/23/2019 20:05	12.2	101.2	0	0.109	0.067	0.024	0.055	0.016	0.02	42.43089;-76.49813
5/23/2019 20:06			0	0.109	0.066	0.024	0.059	0.016	0.022	
5/23/2019 20:07			0	0.109	0.065	0.024	0.059	0.016	0.021	
5/23/2019 20:08			0	0.109	0.065	0.025	0.037	0.016	0.02	
5/23/2019 20:09			0	0.109	0.064	0.025	0.056	0.016	0.019	
5/23/2019 20:10	12.2	102.2	0	0.109	0.063	0.025	0.054	0.016	0.021	42.4309;-76.49815
5/23/2019 20:11			0	0.109	0.062	0.025	0.074	0.016	0.02	

Community Air Monitoring Program - Downwind Station
May 15, 2019 to September 11, 2019

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/23/2019 20:12			0	0.109	0.061	0.025	0.05	0.016	0.019	
5/23/2019 20:13			0	0.109	0.061	0.025	0.068	0.016	0.02	
5/23/2019 20:14			0	0.109	0.06	0.025	0.059	0.016	0.019	
5/23/2019 20:15	12.2	100.2	0	0.109	0.06	0.025	0.055	0.016	0.02	42.4309;-76.49812
5/23/2019 20:16			0	0.109	0.059	0.026	0.062	0.016	0.019	
5/23/2019 20:17			0	0.109	0.059	0.026	0.059	0.016	0.019	
5/23/2019 20:18			0	0.109	0.059	0.026	0.068	0.016	0.022	
5/23/2019 20:19			0	0.109	0.06	0.026	0.054	0.016	0.027	
5/23/2019 20:20	12.2	90.1	0	0.109	0.059	0.026	0.052	0.016	0.045	
5/23/2019 20:21			0	0.109	0.059	0.026	0.057	0.016	0.025	
5/23/2019 20:22			0	0.109	0.059	0.026	0.058	0.016	0.021	
5/23/2019 20:23			0	0.109	0.058	0.026	0.053	0.016	0.021	
5/23/2019 20:24			0	0.109	0.058	0.026	0.046	0.016	0.02	
5/23/2019 20:25	12.1	91.1	0	0.109	0.058	0.027	0.052	0.016	0.02	
5/23/2019 20:26			0	0.109	0.058	0.027	0.056	0.016	0.019	
5/23/2019 20:27			0	0.109	0.057	0.027	0.044	0.016	0.02	
5/23/2019 20:28			0	0.109	0.056	0.027	0.067	0.016	0.02	
5/23/2019 20:29			0	0.109	0.055	0.027	0.054	0.016	0.018	
5/23/2019 20:30	12.2	89.1	0	0.109	0.055	0.027	0.059	0.016	0.02	
5/23/2019 20:31			0	0.109	0.054	0.027	0.052	0.016	0.019	
5/23/2019 20:32			0	0.109	0.053	0.027	0.042	0.016	0.018	
5/23/2019 20:33			0	0.109	0.051	0.027	0.045	0.016	0.033	
5/23/2019 20:34			0	0.109	0.049	0.027	0.035	0.016	0.024	
5/23/2019 20:35	12.1	89.1	0	0.109	0.048	0.028	0.03	0.016	0.023	
5/23/2019 20:36			0	0.109	0.047	0.028	0.032	0.016	0.027	
5/23/2019 20:37			0	0.109	0.046	0.028	0.047	0.016	0.02	
5/23/2019 20:38			0	0.109	0.046	0.028	0.035	0.016	0.019	
5/23/2019 20:39			0	0.109	0.045	0.028	0.054	0.016	0.02	
5/23/2019 20:40	12.1	88.1	0	0.109	0.045	0.028	0.044	0.016	0.018	
5/23/2019 20:41			0	0.109	0.045	0.028	0.047	0.016	0.019	
5/23/2019 20:42			0	0.109	0.045	0.028	0.059	0.016	0.019	
5/23/2019 20:43			0	0.109	0.045	0.028	0.044	0.016	0.02	
5/23/2019 20:44			0	0.109	0.044	0.028	0.046	0.016	0.018	
5/23/2019 20:45	12.1	89.1	0	0.109	0.044	0.029	0.057	0.016	0.019	
5/23/2019 20:46			0	0.109	0.044	0.029	0.061	0.016	0.019	
5/23/2019 20:47			0	0.109	0.045	0.029	0.048	0.016	0.018	
5/23/2019 20:48			0	0.109	0.046	0.029	0.06	0.016	0.019	
5/23/2019 20:49			0	0.109	0.047	0.029	0.056	0.016	0.018	
5/23/2019 20:50	12.1	90.1	0	0.109	0.048	0.029	0.055	0.016	0.018	
5/23/2019 20:51			0	0.109	0.049	0.029	0.055	0.016	0.018	
5/23/2019 20:52			0	0.109	0.05	0.029	0.057	0.016	0.018	
5/23/2019 20:53			0	0.109	0.051	0.029	0.053	0.016	0.019	
5/23/2019 20:54			0	0.109	0.051	0.03	0.068	0.016	0.018	
5/23/2019 20:55	12.1	90.1	0	0.109	0.052	0.03	0.053	0.016	0.019	
5/23/2019 20:56			0	0.109	0.053	0.03	0.053	0.016	0.018	
5/23/2019 20:57			0	0.109	0.053	0.03	0.055	0.016	0.018	
5/23/2019 20:58			0	0.109	0.053	0.03	0.062	0.016	0.019	
5/23/2019 20:59			0	0.109	0.053	0.03	0.039	0.016	0.018	
5/23/2019 21:00	12.1	91.1	0	0.109	0.053	0.03	0.059	0.016	0.018	
5/23/2019 21:01			0	0.109	0.054	0.03	0.042	0.016	0.018	
5/23/2019 21:02			0	0.109	0.054	0.03	0.052	0.016	0.018	
5/23/2019 21:03			0	0.109	0.054	0.031	0.049	0.016	0.017	
5/23/2019 21:04			0	0.109	0.054	0.031	0.06	0.016	0.018	
5/23/2019 21:05	12.1	90.1	0	0.109	0.054	0.031	0.066	0.016	0.018	
5/23/2019 21:06			0	0.109	0.055	0.031	0.056	0.016	0.017	
5/23/2019 21:07			0	0.109	0.055	0.031	0.036	0.016	0.018	
5/23/2019 21:08			0	0.109	0.055	0.031	0.067	0.016	0.018	
5/23/2019 21:09			0	0.109	0.056	0.031	0.061	0.016	0.018	
5/23/2019 21:10	12.1	90.1	0	0.109	0.056	0.031	0.056	0.016	0.018	
5/23/2019 21:11			0	0.109	0.056	0.032	0.065	0.016	0.018	
5/23/2019 21:12			0	0.109	0.057	0.032	0.063	0.016	0.018	
5/23/2019 21:13			0	0.109	0.058	0.032	0.063	0.016	0.018	
5/23/2019 21:14			0	0.109	0.059	0.032	0.053	0.016	0.018	
5/23/2019 21:15	12.1	92.1	0	0.109	0.06	0.032	0.058	0.016	0.018	
5/23/2019 21:16			0	0.109	0.06	0.032	0.059	0.016	0.018	
5/23/2019 21:17			0	0.109	0.061	0.032	0.068	0.016	0.018	
5/23/2019 21:18			0	0.109	0.062	0.033	0.073	0.016	0.018	
5/23/2019 21:19			0	0.109	0.063	0.033	0.076	0.016	0.017	
5/23/2019 21:20	12.1	109.3	0	0.109	0.064	0.033	0.078	0.016	0.018	
5/23/2019 21:21			0	0.109	0.065	0.033	0.063	0.016	0.018	
5/23/2019 21:22			0	0.109	0.065	0.033	0.064	0.016	0.017	
5/23/2019 21:23			0	0.109	0.066	0.033	0.082	0.016	0.017	
5/23/2019 21:24			0	0.109	0.067	0.033	0.06	0.016	0.016	
5/23/2019 21:25	12.1	90.1	0	0.109	0.068	0.034	0.062	0.016	0.018	
5/23/2019 21:26			0	0.109	0.069	0.034	0.073	0.016	0.017	
5/23/2019 21:27			0	0.109	0.069	0.034	0.076	0.016	0.018	
5/23/2019 21:28			0	0.109	0.07	0.034	0.058	0.016	0.017	
5/23/2019 21:29			0	0.109	0.07	0.034	0.067	0.016	0.017	
5/23/2019 21:30	12.1	90.1	0	0.109	0.07	0.034	0.067	0.016	0.02	
5/23/2019 21:31			0	0.109	0.071	0.034	0.077	0.016	0.017	
5/23/2019 21:32			0	0.109	0.071	0.035	0.066	0.016	0.016	
5/23/2019 21:33			0	0.109	0.071	0.035	0.075	0.016	0.017	
5/23/2019 21:34			0	0.109	0.071	0.035	0.071	0.016	0.016	
5/23/2019 21:35	12.1	91.1	0	0.109	0.071	0.035	0.057	0.016	0.017	
5/23/2019 21:36			0	0.109	0.07	0.035	0.064	0.016	0.018	
5/23/2019 21:37			0	0.109	0.07	0.035	0.051	0.016	0.017	
5/23/2019 21:38			0	0.109	0.069	0.035	0.061	0.016	0.018	
5/23/2019 21:39			0	0.109	0.068	0.036	0.075		0.017	
5/29/2019 11:21	12.4	119.4								
5/29/2019 11:22			0	0.111	0	0	0.053			
5/29/2019 11:22	12.5	128.6								
5/29/2019 11:23			0	0.111	0	0	0.032	0		
5/29/2019 11:24			0	0.111	0	0	0.023	0	0.009	
5/29/2019 11:25	12.5	87	0	0.111	0	0	0.014	0	0.008	
5/29/2019 11:26			0	0.111	0	0	0.01	0	0.008	
5/29/2019 11:27			0	0.111	0	0	0.008	0	0.008	
5/29/2019 11:28			0	0.111	0	0	0.005	0	0.008	
5/29/2019 11:29			0	0.111	0	0	0.003	0	0.007	
5/29/2019 11:30	12.5	87	0	0.111	0	0	0.003	0	0.007	
5/29/2019 11:31			0	0.111	0	0	0.002	0	0.008	
5/29/2019 11:32			0	0.111	0	0	0.004	0	0.008	
5/29/2019 11:33			0	0.111	0	0	0	0	0.007	
5/29/2019 11:34			0	0.111	0	0	0	0	0.007	
5/29/2019 11:35	12.5	89.1	0	0.111	0	0	0	0	0.007	
5/29/2019 11:36			0	0.111	0.013	0	0	0	0.007	
5/29/2019 11:37			0	0.111	0.009	0	0	0	0.007	
5/29/2019 11:38			0	0.111	0.006	0	0	0	0.007	
5/29/2019 11:39			0	0.111	0.004	0	0	0	0.008	
5/29/2019 11:40	12.5	91.1	0	0.111	0.002	0	0	0	0.007	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/29/2019 11:41			0	0.111	0.002	0	0.002	0	0.007	
5/29/2019 11:42			0	0.111	0.001	0	0	0	0.007	
5/29/2019 11:43			0	0.111	0.001	0	0.004	0	0.007	
5/29/2019 11:44			0	0.111	0	0	0	0	0.007	
5/29/2019 11:45	12.5	87	0	0.111	0	0	0	0	0.007	
5/29/2019 11:46			0	0.111	0	0	0.002	0	0.007	
5/29/2019 11:47			0	0.111	0	0	0.002	0	0.007	
5/29/2019 11:48			0	0.111	0.001	0	0.007	0	0.008	
5/29/2019 11:49			0	0.111	0.001	0	0.012	0	0.008	
5/29/2019 11:50	12.5	88.1	0	0.111	0.002	0	0.009	0	0.008	
5/29/2019 11:51			0	0.111	0.002	0	0.007	0	0.008	
5/29/2019 11:52			0	0.111	0.002	0	0.012	0	0.008	
5/29/2019 11:53			0	0.111	0.003	0	0.01	0	0.008	
5/29/2019 11:54			0	0.111	0.003	0	0.012	0	0.008	
5/29/2019 11:55	12.5	87	0	0.111	0.004	0	0.004	0.001	0.011	
5/29/2019 11:56			0	0.111	0.004	0	0.016	0.001	0.008	
5/29/2019 11:57			0	0.111	0.005	0	0.011	0.001	0.013	
5/29/2019 11:58			0	0.111	0.006	0	0.017	0.001	0.009	
5/29/2019 11:59			0	0.111	0.007	0	0.016	0.001	0.008	
5/29/2019 12:00	12.5	86	0	0.111	0.007	0	0.009	0.001	0.009	
5/29/2019 12:01			0	0.111	0.008	0	0.016	0.001	0.011	
5/29/2019 12:02			0	0.111	0.009	0	0.003	0.001	0.01	
5/29/2019 12:03			0	0.111	0.01	0	0.01	0.001	0.01	
5/29/2019 12:04			0	0.111	0.01	0	0.009	0.001	0.009	
5/29/2019 12:05	12.5	88.1	0	0.111	0.01	0	0.006	0.001	0.009	
5/29/2019 12:06			0	0.111	0.01	0	0.019	0.001	0.01	
5/29/2019 12:07			0	0.111	0.011	0	0.018	0.001	0.021	
5/29/2019 12:08			0	0.111	0.011	0	0.01	0.001	0.013	
5/29/2019 12:09			0	0.111	0.012	0	0.01	0.001	0.013	
5/29/2019 12:10	12.5	88.1	0	0.111	0.012	0	0.012	0.001	0.012	
5/29/2019 12:11			0	0.111	0.012	0	0.009	0.001	0.009	
5/29/2019 12:12			0	0.111	0.012	0	0.009	0.001	0.01	
5/29/2019 12:13			0	0.111	0.012	0.001	0.016	0.001	0.012	
5/29/2019 12:14			0	0.111	0.012	0.001	0.033	0.001	0.01	
5/29/2019 12:15	12.5	86	0	0.111	0.014	0.001	0.022	0.001	0.013	
5/29/2019 12:16			0	0.111	0.015	0.001	0.024	0.001	0.01	
5/29/2019 12:17			0	0.111	0.015	0.001	0.026	0.001	0.009	
5/29/2019 12:18			0	0.111	0.016	0.001	0.019	0.001	0.009	
5/29/2019 12:19			0	0.111	0.017	0.001	0.016	0.001	0.009	
5/29/2019 12:20	12.5	86	0	0.111	0.017	0.001	0.013	0.001	0.008	
5/29/2019 12:21			0	0.111	0.017	0.001	0.011	0.001	0.008	
5/29/2019 12:22			0	0.111	0.017	0.001	0.025	0.001	0.008	
5/29/2019 12:23			0	0.111	0.017	0.001	0.033	0.001	0.008	
5/29/2019 12:24			0	0.111	0.018	0.001	0.011	0.001	0.008	
5/29/2019 12:25	12.5	87	0	0.111	0.018	0.001	0.021	0.001	0.01	
5/29/2019 12:26			0	0.111	0.019	0.001	0.032	0.001	0.011	
5/29/2019 12:27			0	0.111	0.02	0.001	0.02	0.001	0.009	
5/29/2019 12:28			0	0.111	0.021	0.001	0.029	0.001	0.009	
5/29/2019 12:29			0	0.111	0.021	0.001	0.022	0.001	0.009	
5/29/2019 12:30	12.5	88.1	0	0.111	0.021	0.001	0.031	0.001	0.009	
5/29/2019 12:31			0	0.111	0.021	0.001	0.029	0.001	0.009	
5/29/2019 12:32			0	0.111	0.021	0.001	0.024	0.001	0.01	
5/29/2019 12:33			0	0.111	0.022	0.001	0.033	0.001	0.009	
5/29/2019 12:34			0	0.111	0.022	0.002	0.026	0.001	0.009	
5/29/2019 12:35	12.5	88.1	0	0.111	0.023	0.002	0.035	0.001	0.009	
5/29/2019 12:36			0	0.111	0.024	0.002	0.027	0.001	0.009	
5/29/2019 12:37			0	0.111	0.025	0.002	0.025	0.001	0.008	
5/29/2019 12:38			0	0.111	0.026	0.002	0.039	0.001	0.008	
5/29/2019 12:39			0	0.111	0.027	0.002	0.038	0.001	0.009	
5/29/2019 12:40	12.4	87	0	0.111	0.028	0.002	0.034	0.001	0.008	
5/29/2019 12:41			0	0.111	0.029	0.002	0.035	0.001	0.009	
5/29/2019 12:42			0	0.111	0.03	0.002	0.038	0.001	0.011	
5/29/2019 12:43			0	0.111	0.031	0.002	0.042	0.001	0.011	
5/29/2019 12:44			0	0.111	0.032	0.002	0.03	0.002	0.011	
5/29/2019 12:45	12.4	87	0	0.111	0.033	0.002	0.035	0.002	0.02	
5/29/2019 12:46			0	0.111	0.033	0.002	0.046	0.002	0.014	
5/29/2019 12:47			0	0.111	0.034	0.002	0.037	0.002	0.01	
5/29/2019 12:48			0	0.111	0.035	0.003	0.04	0.002	0.011	
5/29/2019 12:49			0	0.111	0.036	0.003	0.045	0.002	0.01	
5/29/2019 12:50	12.4	86	0	0.111	0.036	0.003	0.034	0.002	0.011	
5/29/2019 12:51			0	0.111	0.037	0.003	0.039	0.002	0.012	
5/29/2019 12:52			0	0.111	0.038	0.003	0.041	0.002	0.012	
5/29/2019 12:53			0	0.111	0.038	0.003	0.03	0.002	0.014	
5/29/2019 12:54			0	0.111	0.038	0.003	0.032	0.002	0.013	
5/29/2019 12:55	12.4	87	0	0.111	0.038	0.003	0.037	0.002	0.012	
5/29/2019 12:56			0	0.111	0.038	0.003	0.043	0.002	0.011	
5/29/2019 12:57			0	0.111	0.038	0.003	0.039	0.002	0.01	
5/29/2019 12:58			0	0.111	0.038	0.003	0.038	0.002	0.01	
5/29/2019 12:59			0	0.111	0.038	0.003	0.036	0.002	0.009	
5/29/2019 13:00	12.4	87	0	0.111	0.038	0.004	0.034	0.002	0.009	
5/29/2019 13:01			0	0.111	0.038	0.004	0.041	0.002	0.009	
5/29/2019 13:02			0	0.111	0.037	0.004	0.04	0.002	0.009	
5/29/2019 13:03			0	0.111	0.037	0.004	0.049	0.002	0.009	
5/29/2019 13:04			0	0.111	0.038	0.004	0.047	0.002	0.009	
5/29/2019 13:05	12.4	87	0	0.111	0.038	0.004	0.041	0.002	0.009	
5/29/2019 13:06			0	0.111	0.039	0.004	0.053	0.002	0.009	
5/29/2019 13:07			0	0.111	0.039	0.004	0.045	0.002	0.009	
5/29/2019 13:08			0	0.111	0.04	0.004	0.057	0.002	0.012	
5/29/2019 13:09			0	0.111	0.041	0.004	0.051	0.002	0.014	
5/29/2019 13:10	12.4	87	0	0.111	0.043	0.004	0.052	0.002	0.011	
5/29/2019 13:11			0	0.111	0.043	0.005	0.047	0.002	0.009	
5/29/2019 13:12			0	0.111	0.044	0.005	0.049	0.002	0.009	
5/29/2019 13:13			0	0.111	0.045	0.005	0.051	0.002	0.009	
5/29/2019 13:14			0	0.111	0.046	0.005	0.052	0.002	0.01	
5/29/2019 13:15	12.4	88.1	0	0.111	0.047	0.005	0.043	0.002	0.043	
5/29/2019 13:16			0	0.111	0.048	0.005	0.06	0.002	0.024	
5/29/2019 13:17			0	0.111	0.049	0.005	0.05	0.002	0.009	
5/29/2019 13:18			0	0.111	0.049	0.005	0.062	0.002	0.009	
5/29/2019 13:19			0	0.111	0.05	0.005	0.055	0.002	0.038	
5/29/2019 13:20	12.4	85	0	0.111	0.051	0.006	0.063	0.003	0.048	
5/29/2019 13:21			0	0.111	0.052	0.006	0.053	0.003	0.02	
5/29/2019 13:22			0	0.111	0.052	0.006	0.037	0.003	0.01	
5/29/2019 13:23			0	0.111	0.052	0.006	0.05	0.003	0.009	
5/29/2019 13:24			0	0.111	0.052	0.006	0.054	0.003	0.01	
5/29/2019 13:25	12.4	88.1	0	0.111	0.051	0.006	0.051	0.003	0.009	
5/29/2019 13:26			0	0.111	0.052	0.006	0.056	0.003	0.009	
5/29/2019 13:27			0	0.111	0.052	0.006	0.062	0.003	0.015	
5/29/2019 13:28			0	0.111	0.053	0.006	0.052	0.003	0.023	
5/29/2019 13:29			0	0.111	0.053	0.007	0.049	0.003	0.019	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/29/2019 13:30	12.4	88.1	0	0.111	0.053	0.007	0.053	0.003	0.013	
5/29/2019 13:31			0	0.111	0.053	0.007	0.052	0.003	0.009	
5/29/2019 13:32			0	0.111	0.053	0.007	0.05	0.003	0.009	
5/29/2019 13:33			0	0.111	0.053	0.007	0.043	0.003	0.009	
5/29/2019 13:34			0	0.111	0.053	0.007	0.046	0.003	0.009	
5/29/2019 13:35	12.4	87	0	0.111	0.052	0.007	0.055	0.003	0.009	
5/29/2019 13:36			0	0.111	0.052	0.007	0.055	0.003	0.009	
5/29/2019 13:37			0	0.111	0.052	0.007	0.057	0.003	0.009	
5/29/2019 13:38			0	0.111	0.052	0.008	0.05	0.003	0.009	
5/29/2019 13:39			0	0.111	0.052	0.008	0.051	0.003	0.009	
5/29/2019 13:40	12.4	87	0	0.111	0.052	0.008	0.06	0.003	0.011	
5/29/2019 13:41			0	0.111	0.053	0.008	0.055	0.003	0.013	
5/29/2019 13:42			0	0.111	0.052	0.008	0.055	0.003	0.011	
5/29/2019 13:43			0	0.111	0.052	0.008	0.053	0.003	0.02	
5/29/2019 13:44			0	0.111	0.052	0.008	0.057	0.003	0.011	
5/29/2019 13:45	12.4	87	0	0.111	0.052	0.008	0.058	0.003	0.014	
5/29/2019 13:46			0	0.111	0.052	0.008	0.066	0.003	0.011	
5/29/2019 13:47			0	0.111	0.053	0.009	0.064	0.003	0.012	
5/29/2019 13:48			0	0.111	0.054	0.009	0.048	0.003	0.011	
5/29/2019 13:49			0	0.111	0.054	0.009	0.048	0.003	0.01	
5/29/2019 13:50	12.4	87	0	0.111	0.055	0.009	0.051	0.003	0.012	
5/29/2019 13:51			0	0.111	0.054	0.009	0.055	0.003	0.015	
5/29/2019 13:52			0	0.111	0.054	0.009	0.045	0.003	0.026	
5/29/2019 13:53			0	0.111	0.054	0.009	0.059	0.003	0.012	
5/29/2019 13:54			0	0.111	0.054	0.009	0.055	0.003	0.01	
5/29/2019 13:55	12.4	87	0	0.111	0.054	0.009	0.049	0.003	0.015	
5/29/2019 13:56			0	0.111	0.054	0.01	0.057	0.003	0.01	
5/29/2019 13:57			0	0.111	0.054	0.01	0.055	0.003	0.009	
5/29/2019 13:58			0	0.111	0.054	0.01	0.05	0.004	0.009	
5/29/2019 13:59			0	0.111	0.053	0.01	0.053	0.004	0.01	
5/29/2019 14:00	12.4	87	0	0.111	0.053	0.01	0.055	0.004	0.016	
5/29/2019 14:01			0	0.111	0.053	0.01	0.051	0.004	0.012	
5/29/2019 14:02			0	0.111	0.052	0.01	0.053	0.004	0.01	
5/29/2019 14:03			0	0.111	0.052	0.01	0.057	0.004	0.009	
5/29/2019 14:04			0	0.111	0.052	0.01	0.048	0.004	0.009	
5/29/2019 14:05	12.3	88.1	0	0.111	0.052	0.011	0.055	0.004	0.009	
5/29/2019 14:06			0	0.111	0.053	0.011	0.058	0.004	0.009	
5/29/2019 14:07			0	0.111	0.053	0.011	0.063	0.004	0.009	
5/29/2019 14:08			0	0.111	0.054	0.011	0.055	0.004	0.01	
5/29/2019 14:09			0	0.111	0.054	0.011	0.067	0.004	0.01	
5/29/2019 14:10	12.4	88.1	0	0.111	0.055	0.011	0.064	0.004	0.01	
5/29/2019 14:11			0	0.111	0.056	0.011	0.067	0.004	0.009	
5/29/2019 14:12			0	0.111	0.056	0.011	0.049	0.004	0.009	
5/29/2019 14:13			0	0.111	0.057	0.012	0.056	0.004	0.009	
5/29/2019 14:14			0	0.111	0.058	0.012	0.057	0.004	0.009	
5/29/2019 14:15	12.3	88.1	0	0.111	0.059	0.012	0.059	0.004	0.01	
5/29/2019 14:16			0	0.111	0.059	0.012	0.069	0.004	0.009	
5/29/2019 14:17			0	0.111	0.06	0.012	0.071	0.004	0.009	
5/29/2019 14:18			0	0.111	0.061	0.012	0.076	0.004	0.009	
5/29/2019 14:19			0	0.111	0.062	0.012	0.069	0.004	0.009	
5/29/2019 14:20	12.3	89.1	0	0.111	0.063	0.013	0.07	0.004	0.01	
5/29/2019 14:21			0	0.111	0.064	0.013	0.064	0.004	0.009	
5/29/2019 14:22			0	0.111	0.064	0.013	0.072	0.004	0.009	
5/29/2019 14:23			0	0.111	0.065	0.013	0.085	0.004	0.009	
5/29/2019 14:24			0	0.111	0.066	0.013	0.075	0.004	0.011	
5/29/2019 14:25	12.3	87	0	0.111	0.067	0.013	0.072	0.004	0.014	
5/29/2019 14:26			0	0.111	0.067	0.013	0.076	0.004	0.009	
5/29/2019 14:27			0	0.111	0.068	0.014	0.069	0.004	0.009	
5/29/2019 14:28			0	0.111	0.068	0.014	0.066	0.004	0.013	
5/29/2019 14:29			0	0.111	0.069	0.014	0.069	0.004	0.012	
5/29/2019 14:30	12.3	89.1	0	0.111	0.069	0.014	0.065	0.004	0.01	
5/29/2019 14:31			0	0.111	0.07	0.014	0.072	0.004	0.01	
5/29/2019 14:32			0	0.111	0.07	0.014	0.082	0.004	0.013	
5/29/2019 14:33			0	0.111	0.069	0.014	0.057	0.004	0.01	
5/29/2019 14:34			0	0.111	0.068	0.015	0.057	0.004	0.01	
5/29/2019 14:35	12.3	90.1	0	0.111	0.068	0.015	0.066	0.004	0.017	
5/29/2019 14:36			0	0.111	0.068	0.015	0.077	0.004	0.011	
5/29/2019 14:37			0	0.111	0.068	0.015	0.067	0.004	0.012	
5/29/2019 14:38			0	0.111	0.068	0.015	0.075	0.004	0.01	
5/29/2019 14:39			0	0.111	0.068	0.015	0.075	0.004	0.01	
5/29/2019 14:40	12.3	89.1	0	0.111	0.068	0.015	0.057	0.004	0.01	
5/29/2019 14:41			0	0.111	0.068	0.016	0.09	0.004	0.012	
5/29/2019 14:42			0	0.111	0.069	0.016	0.073	0.004	0.015	
5/29/2019 14:43			0	0.111	0.069	0.016	0.059	0.004	0.011	
5/29/2019 14:44			0	0.111	0.069	0.016	0.086	0.005	0.012	
5/29/2019 14:45	12.3	87	0	0.111	0.07	0.016	0.075	0.005	0.012	
5/29/2019 14:46			0	0.111	0.071	0.016	0.087	0.005	0.015	
5/29/2019 14:47			0	0.111	0.071	0.017	0.074	0.005	0.02	
5/29/2019 14:48			0	0.111	0.072	0.017	0.076	0.005	0.014	
5/29/2019 14:49			0	0.111	0.073	0.017	0.073	0.005	0.01	
5/29/2019 14:50	12.3	89.1	0	0.111	0.073	0.017	0.064	0.005	0.009	
5/29/2019 14:51			0	0.111	0.073	0.017	0.07	0.005	0.125	
5/29/2019 14:52			0	0.111	0.073	0.017	0.074	0.005	0.011	
5/29/2019 14:53			0	0.111	0.073	0.017	0.061	0.005	0.008	
5/29/2019 14:54			0	0.111	0.072	0.018	0.06	0.005	0.009	
5/29/2019 14:55	12.3	88.1	0	0.111	0.072	0.018	0.055	0.005	0.008	
5/29/2019 14:56			0	0.111	0.072	0.018	0.06	0.005	0.008	
5/29/2019 14:57			0	0.111	0.071	0.018	0.075	0.005	0.009	
5/29/2019 14:58			0	0.111	0.07	0.018	0.056	0.005	0.009	
5/29/2019 14:59			0	0.111	0.069	0.018	0.045	0.005	0.01	
5/29/2019 15:00	12.3	88.1	0	0.111	0.069	0.018	0.06	0.005	0.009	
5/29/2019 15:01			0	0.111	0.068	0.018	0.067	0.005	0.009	
5/29/2019 15:02			0	0.111	0.066	0.019	0.067	0.005	0.009	
5/29/2019 15:03			0	0.111	0.066	0.019	0.069	0.005	0.009	
5/29/2019 15:04			0	0.111	0.065	0.019	0.077	0.005	0.01	
5/29/2019 15:05	12.3	87	0	0.111	0.066	0.019	0.075	0.005	0.011	
5/29/2019 15:06			0	0.111	0.066	0.019	0.076	0.005	0.011	
5/29/2019 15:07			0	0.111	0.066	0.019	0.071	0.005	0.011	
5/29/2019 15:08			0	0.111	0.066	0.019	0.067	0.005	0.01	
5/29/2019 15:09			0	0.111	0.066	0.02	0.073	0.005	0.011	
5/29/2019 15:10	12.3	88.1	0	0.111	0.066	0.02	0.072	0.005	0.009	
5/29/2019 15:11			0	0.111	0.066	0.02	0.063	0.005	0.01	
5/29/2019 15:12			0	0.111	0.066	0.02	0.064	0.005	0.009	
5/29/2019 15:13			0	0.111	0.066	0.02	0.062	0.005	0.01	
5/29/2019 15:14			0	0.111	0.066	0.02	0.067	0.005	0.011	
5/29/2019 15:15	12.3	88.1	0	0.111	0.067	0.02	0.072	0.005	0.017	
5/29/2019 15:16			0	0.111	0.067	0.021	0.074	0.005	0.009	
5/29/2019 15:17			0	0.111	0.067	0.021	0.069	0.005	0.009	
5/29/2019 15:18			0	0.111	0.067	0.021	0.057	0.005	0.01	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/29/2019 15:19			0	0.111	0.067	0.021	0.07	0.006	0.012	
5/29/2019 15:20	12.3	89.1	0	0.111	0.066	0.021	0.063	0.006	0.013	
5/29/2019 15:21			0	0.111	0.066	0.021	0.069	0.006	0.01	
5/29/2019 15:22			0	0.111	0.066	0.021	0.066	0.006	0.01	
5/29/2019 15:23			0	0.111	0.065	0.022	0.06	0.006	0.011	
5/29/2019 15:24			0	0.111	0.065	0.022	0.064	0.006	0.011	
5/29/2019 15:25	12.3	88.1	0	0.111	0.065	0.022	0.06	0.006	0.012	
5/29/2019 15:26			0	0.111	0.065	0.022	0.072	0.006	0.011	
5/29/2019 15:27			0	0.111	0.065	0.022	0.057	0.006	0.011	
5/29/2019 15:28			0	0.111	0.065	0.022	0.078	0.006	0.01	
5/29/2019 15:29			0	0.111	0.064	0.022	0.065	0.006	0.011	
5/29/2019 15:30	12.3	88.1	0	0.111	0.064	0.022	0.076	0.006	0.013	
5/29/2019 15:31			0	0.111	0.063	0.023	0.072	0.006	0.014	
5/29/2019 15:32			0	0.111	0.063	0.023	0.057	0.006	0.014	
5/29/2019 15:33			0	0.111	0.064	0.023	0.073	0.006	0.012	
5/29/2019 15:34			0	0.111	0.064	0.023	0.077	0.006	0.012	
5/29/2019 15:35	12.3	88.1	0	0.111	0.065	0.023	0.071	0.006	0.013	
5/29/2019 15:36			0	0.111	0.065	0.023	0.078	0.006	0.011	
5/29/2019 15:37			0	0.111	0.065	0.023	0.074	0.006	0.015	
5/29/2019 15:38			0	0.111	0.066	0.024	0.073	0.006	0.019	
5/29/2019 15:39			0	0.111	0.067	0.024	0.068	0.006	0.013	
5/29/2019 15:40	12.2	88.1	0	0.111	0.067	0.024	0.065	0.006	0.011	
5/29/2019 15:41			0	0.111	0.067	0.024	0.072	0.006	0.01	
5/29/2019 15:42			0	0.111	0.067	0.024	0.058	0.006	0.01	
5/29/2019 15:43			0	0.111	0.067	0.024	0.061	0.006	0.01	
5/29/2019 15:44			0	0.111	0.067	0.024	0.072	0.006	0.04	
5/29/2019 15:45	12.2	88.1	0	0.111	0.068	0.025	0.069	0.006	0.046	
5/29/2019 15:46			0	0.111	0.068	0.025	0.068	0.006	0.013	
5/29/2019 15:47			0	0.111	0.068	0.025	0.07	0.006	0.018	
5/29/2019 15:48			0	0.111	0.068	0.025	0.075	0.006	0.009	
5/29/2019 15:49			0	0.111	0.068	0.025	0.065	0.006	0.011	
5/29/2019 15:50	12.3	89.1	0	0.111	0.068	0.025	0.084	0.006	0.009	
5/29/2019 15:51			0	0.111	0.069	0.025	0.073	0.006	0.009	
5/29/2019 15:52			0	0.111	0.069	0.026	0.075	0.006	0.009	
5/29/2019 15:53			0	0.111	0.069	0.026	0.077	0.006	0.008	
5/29/2019 15:54			0	0.111	0.069	0.026	0.075	0.006	0.008	
5/29/2019 15:55	12.3	88.1	0	0.111	0.07	0.026	0.081	0.007	0.007	
5/29/2019 15:56			0	0.111	0.071	0.026	0.07	0.007	0.008	
5/29/2019 15:57			0	0.111	0.071	0.026	0.073	0.007	0.007	
5/29/2019 15:58			0	0.111	0.072	0.027	0.071	0.007	0.007	
5/29/2019 15:59			0	0.111	0.072	0.027	0.077	0.007	0.007	
5/29/2019 16:00	12.3	88.1	0	0.111	0.073	0.027	0.071	0.007	0.008	
5/29/2019 16:01			0	0.111	0.073	0.027	0.078	0.007	0.007	
5/29/2019 16:02			0	0.111	0.073	0.027	0.078	0.007	0.008	
5/29/2019 16:03			0	0.111	0.073	0.027	0.068	0.007	0.008	
5/29/2019 16:04			0	0.111	0.073	0.027	0.074	0.007	0.008	
5/29/2019 16:05	12.3	88.1	0	0.111	0.073	0.028	0.08	0.007	0.008	
5/29/2019 16:06			0	0.111	0.073	0.028	0.071	0.007	0.008	
5/29/2019 16:07			0	0.111	0.073	0.028	0.066	0.007	0.008	
5/29/2019 16:08			0	0.111	0.072	0.028	0.063	0.007	0.008	
5/29/2019 16:09			0	0.111	0.071	0.028	0.063	0.007	0.008	
5/29/2019 16:10	12.3	88.1	0	0.111	0.07	0.028	0.067	0.007	0.017	
5/29/2019 16:11			0	0.111	0.07	0.028	0.085	0.007	0.011	
5/29/2019 16:12			0	0.111	0.071	0.029	0.076	0.007	0.008	
5/29/2019 16:13			0	0.111	0.071	0.029	0.069	0.007	0.01	
5/29/2019 16:14			0	0.111	0.071	0.029	0.076	0.007	0.008	
5/29/2019 16:15	12.3	106.3	0	0.111	0.071	0.029	0.066	0.007	0.008	
5/29/2019 16:16			0	0.111	0.07	0.029	0.067	0.007	0.008	
5/29/2019 16:17			0	0.111	0.07	0.029	0.067	0.007	0.009	
5/29/2019 16:18			0	0.111	0.07	0.029	0.062	0.007	0.009	
5/29/2019 16:19			0	0.111	0.069	0.03	0.069	0.007	0.009	
5/29/2019 16:20	12.3	88.1	0	0.111	0.068	0.03	0.065	0.007	0.008	
5/29/2019 16:21			0	0.111	0.067	0.03	0.063	0.007	0.008	
5/29/2019 16:22			0	0.111	0.067	0.03	0.069	0.007	0.008	
5/29/2019 16:23			0	0.111	0.067	0.03	0.071	0.007	0.008	
5/29/2019 16:24			0	0.111	0.067	0.03	0.06	0.007	0.008	
5/29/2019 16:25	12.3	87	0	0.111	0.067	0.03	0.061	0.007	0.015	
5/29/2019 16:26			0	0.111	0.067	0.031	0.064	0.007	0.014	
5/29/2019 16:27			0	0.111	0.066	0.031	0.077	0.007	0.011	
5/29/2019 16:28			0	0.111	0.066	0.031	0.075	0.007	0.009	
5/29/2019 16:29			0	0.111	0.066	0.031	0.07	0.007	0.008	
5/29/2019 16:30	12.3	89.1	0	0.111	0.066	0.031	0.071	0.007	0.008	
5/29/2019 16:31			0	0.111	0.066	0.031	0.074	0.007	0.008	
5/29/2019 16:32			0	0.111	0.066	0.031	0.07	0.007	0.008	
5/29/2019 16:33			0	0.111	0.067	0.032	0.075	0.007	0.031	
5/29/2019 16:34			0	0.111	0.068	0.032	0.074	0.007	0.008	
5/29/2019 16:35	12.3	87	0	0.111	0.069	0.032	0.076	0.007	0.008	
5/29/2019 16:36			0	0.111	0.069	0.032	0.07	0.007	0.008	
5/29/2019 16:37			0	0.111	0.07	0.032	0.066	0.007	0.008	
5/29/2019 16:38			0	0.111	0.07	0.032	0.067	0.007	0.008	
5/29/2019 16:39			0	0.111	0.07	0.032	0.067	0.007	0.008	
5/29/2019 16:40	12.3	88.1	0	0.111	0.07	0.033	0.067	0.007	0.017	
5/29/2019 16:41			0	0.111	0.07	0.033	0.061	0.007	0.008	
5/29/2019 16:42			0	0.111	0.07	0.033	0.058	0.007	0.012	
5/29/2019 16:43			0	0.111	0.069	0.033	0.066	0.008	0.042	
5/29/2019 16:44			0	0.111	0.069	0.033	0.064	0.008	0.021	
5/29/2019 16:45	12.3	89.1	0	0.111	0.068	0.033	0.07	0.008	0.013	
5/29/2019 16:46			0	0.111	0.068	0.033	0.071	0.008	0.009	
5/29/2019 16:47			0	0.111	0.067	0.034	0.072	0.008	0.012	
5/29/2019 16:48			0	0.111	0.067	0.034	0.067	0.008	0.012	
5/29/2019 16:49			0	0.111	0.067	0.034	0.066	0.008	0.009	
5/29/2019 16:50	12.3	88.1	0	0.111	0.067	0.034	0.064	0.008	0.009	
5/29/2019 16:51			0	0.111	0.066	0.034	0.076	0.008	0.008	
5/29/2019 16:52			0	0.111	0.066	0.034	0.068	0.008	0.009	
5/29/2019 16:53			0	0.111	0.066	0.034	0.069	0.008	0.009	
5/29/2019 16:54			0	0.111	0.066	0.035	0.076	0.008	0.008	
5/29/2019 16:55	12.3	89.1	0	0.111	0.066	0.035	0.075	0.008	0.008	
5/29/2019 16:56			0	0.111	0.067	0.035	0.068	0.008	0.008	
5/29/2019 16:57			0	0.111	0.067	0.035	0.075	0.008	0.008	
5/29/2019 16:58			0	0.111	0.067	0.035	0.067	0.008	0.008	
5/29/2019 16:59			0	0.111	0.067	0.035	0.063	0.008	0.008	
5/29/2019 17:00	12.3	88.1	0	0.111	0.067	0.035	0.07	0.008	0.008	
5/29/2019 17:01			0	0.111	0.068	0.036	0.074	0.008	0.008	
5/29/2019 17:02			0	0.111	0.068	0.036	0.071	0.008	0.008	
5/29/2019 17:03			0	0.111	0.068	0.036	0.066	0.008	0.008	
5/29/2019 17:04			0	0.111	0.068	0.036	0.066	0.008	0.008	
5/29/2019 17:05	12.3	88.1	0	0.111	0.068	0.036	0.062	0.008	0.008	
5/29/2019 17:06			0	0.111	0.068	0.036	0.067	0.008	0.008	
5/29/2019 17:07			0	0.111	0.067	0.036	0.062	0.008	0.008	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/29/2019 17:08			0	0.111	0.066	0.037	0.066	0.008	0.008	
5/29/2019 17:09			0	0.111	0.066	0.037	0.071	0.008	0.008	
5/29/2019 17:10	12.3	87	0	0.111	0.065	0.037	0.064	0.008	0.008	
5/29/2019 17:11			0	0.111	0.065	0.037	0.068	0.008	0.008	
5/29/2019 17:12			0	0.111	0.065	0.037	0.073	0.008	0.009	
5/29/2019 17:13			0	0.111	0.064	0.037	0.06	0.008	0.009	
5/29/2019 17:14			0	0.111	0.064	0.037	0.069	0.008	0.008	
5/29/2019 17:15	12.3	88.1	0	0.111	0.064	0.037	0.062	0.008	0.009	
5/29/2019 17:16			0	0.111	0.064	0.038	0.069	0.008	0.009	
5/29/2019 17:17			0	0.111	0.064	0.038	0.079	0.008	0.009	
5/29/2019 17:18			0	0.111	0.064	0.038	0.068	0.008	0.009	
5/29/2019 17:19			0	0.111	0.064	0.038	0.068	0.008	0.009	
5/29/2019 17:20	12.2	87	0	0.111	0.065	0.038	0.066	0.008	0.008	
5/29/2019 17:21			0	0.111	0.065	0.038	0.065	0.008	0.009	
5/29/2019 17:22			0	0.111	0.065	0.038	0.066	0.008	0.009	
5/29/2019 17:23			0	0.111	0.065	0.039	0.068	0.008	0.008	
5/29/2019 17:24			0	0.111	0.066	0.039	0.067	0.008	0.009	
5/29/2019 17:25	12.2	89.1	0	0.111	0.066	0.039	0.066	0.008	0.01	
5/29/2019 17:26			0	0.111	0.066	0.039	0.075	0.008	0.009	
5/29/2019 17:27			0	0.111	0.067	0.039	0.078	0.008	0.008	
5/29/2019 17:28			0	0.111	0.067	0.039	0.078	0.008	0.009	
5/29/2019 17:29			0	0.111	0.068	0.039	0.068	0.008	0.009	
5/29/2019 17:30	12.2	89.1	0	0.111	0.067	0.04	0.071	0.008	0.01	
5/29/2019 17:31			0	0.111	0.067	0.04	0.073	0.008	0.01	
5/29/2019 17:32			0	0.111	0.068	0.04	0.061	0.008	0.01	
5/29/2019 17:33			0	0.111	0.067	0.04	0.068	0.008	0.01	
5/29/2019 17:34			0	0.111	0.067	0.04	0.077	0.008	0.01	
5/29/2019 17:35	12.2	89.1	0	0.111	0.068	0.04	0.077	0.009	0.01	
5/29/2019 17:36			0	0.111	0.068	0.04	0.079	0.009	0.01	
5/29/2019 17:37			0	0.111	0.069	0.041	0.071	0.009	0.009	
5/29/2019 17:38			0	0.111	0.07	0.041	0.081	0.009	0.011	
5/29/2019 17:39			0	0.111	0.07	0.041	0.08	0.009	0.016	
5/29/2019 17:40	12.2	89.1	0	0.111	0.071	0.041	0.07	0.009	0.01	
5/29/2019 17:40										42.432687099999995;-76.49565
5/29/2019 17:41			0	0.111	0.071	0.041	0.071	0.009	0.009	
5/29/2019 17:42			0	0.111	0.071	0.041	0.076	0.009	0.01	
5/29/2019 17:43			0	0.111	0.071	0.042	0.067	0.009	0.01	
5/29/2019 17:44			0	0.111	0.071	0.042	0.066	0.009	0.01	
5/29/2019 17:45	12.2	89.1	0	0.111	0.071	0.042	0.076	0.009	0.011	
5/29/2019 17:46			0	0.111	0.071	0.042	0.067	0.009	0.012	
5/29/2019 17:47			0	0.111	0.071	0.042	0.071	0.009	0.011	
5/29/2019 17:48			0	0.111	0.07	0.042	0.067	0.009	0.011	
5/29/2019 17:49			0	0.111	0.069	0.042	0.058	0.009	0.011	
5/29/2019 17:50	12.2	90.1	0	0.111	0.069	0.042	0.073	0.009	0.011	
5/29/2019 17:51			0	0.111	0.068	0.043	0.061	0.009	0.011	
5/29/2019 17:52			0	0.111	0.067	0.043	0.063	0.009	0.01	
5/29/2019 17:53			0	0.111	0.066	0.043	0.062	0.009	0.01	
5/29/2019 17:54			0	0.111	0.065	0.043	0.058	0.009	0.01	
5/29/2019 17:55	12.2	89.1	0	0.111	0.064	0.043	0.06	0.009	0.021	
5/29/2019 17:56			0	0.111	0.063	0.043	0.071	0.009	0.011	
5/29/2019 17:57			0	0.111	0.062	0.043	0.056	0.009	0.01	
5/29/2019 17:58			0	0.111	0.061	0.043	0.06	0.009	0.012	
5/29/2019 17:59			0	0.111	0.061	0.044	0.062	0.009	0.024	
5/29/2019 18:00	12.2	88.1	0	0.111	0.061	0.044	0.059	0.009	0.011	
5/29/2019 18:01			0	0.111	0.06	0.044	0.063	0.009	0.01	
5/29/2019 18:02			0	0.111	0.06	0.044	0.06	0.009	0.01	
5/29/2019 18:03			0	0.111	0.06	0.044	0.061	0.009	0.012	
5/29/2019 18:04			0	0.111	0.061	0.044	0.067	0.009	0.01	
5/29/2019 18:05	12.2	88.1	0	0.111	0.061	0.044	0.068	0.009	0.01	
5/29/2019 18:06			0	0.111	0.061	0.045	0.071	0.009	0.015	
5/29/2019 18:07			0	0.111	0.062	0.045	0.076	0.009	0.016	
5/29/2019 18:08			0	0.111	0.062	0.045	0.055	0.009	0.011	
5/29/2019 18:09			0	0.111	0.062	0.045	0.065	0.009	0.011	
5/29/2019 18:10	12.2	90.1	0	0.111	0.062	0.045	0.067	0.009	0.017	
5/29/2019 18:11			0	0.111	0.062	0.045	0.059	0.009	0.013	
5/29/2019 18:12			0	0.111	0.062	0.045	0.063	0.009	0.011	
5/29/2019 18:13			0	0.111	0.063	0.045	0.075	0.009	0.011	
5/29/2019 18:14			0	0.111	0.063	0.046	0.069	0.009	0.013	
5/29/2019 18:15	12.2	87	0	0.111	0.064	0.046	0.064	0.01	0.015	
5/29/2019 18:16			0	0.111	0.064	0.046	0.068	0.01	0.012	
5/29/2019 18:17			0	0.111	0.064	0.046	0.063	0.01	0.013	
5/29/2019 18:18			0	0.111	0.064	0.046	0.062	0.01	0.012	
5/29/2019 18:19			0	0.111	0.064	0.046	0.058	0.01	0.011	
5/29/2019 18:20	12.2	89.1	0	0.111	0.064	0.046	0.071	0.01	0.02	
5/29/2019 18:21			0	0.111	0.064	0.047	0.057	0.01	0.013	
5/29/2019 18:22			0	0.111	0.064	0.047	0.061	0.01	0.014	
5/29/2019 18:23			0	0.111	0.064	0.047	0.069	0.01	0.016	
5/29/2019 18:24			0	0.111	0.064	0.047	0.071	0.01	0.017	
5/29/2019 18:25	12.2	89.1	0	0.111	0.064	0.047	0.069	0.01	0.011	
5/29/2019 18:26			0	0.111	0.064	0.047	0.065	0.01	0.024	
5/29/2019 18:27			0	0.126	0.065	0.047	0.07	0.01	0.047	
5/29/2019 18:28			0	0.126	0.066	0.047	0.087	0.01	0.02	
5/29/2019 18:29			0	0.126	0.066	0.048	0.067	0.01	0.044	
5/29/2019 18:30	12.1	106.3	0	0.126	0.066	0.048	0.067	0.01	0.018	
5/29/2019 18:31			0	0.126	0.066	0.048	0.074	0.01	0.013	
5/29/2019 18:32			0	0.126	0.067	0.048	0.078	0.01	0.015	
5/29/2019 18:33			0	0.126	0.067	0.048	0.066	0.01	0.022	
5/29/2019 18:34			0	0.126	0.068	0.048	0.073	0.01	0.019	
5/29/2019 18:35	12.2	90.1	0	0.126	0.069	0.049	0.065	0.01	0.022	
5/29/2019 18:36			0	0.126	0.069	0.049	0.061	0.01	0.018	
5/29/2019 18:37			0	0.126	0.069	0.049	0.071	0.01	0.016	
5/29/2019 18:38			0	0.126	0.069	0.049	0.062	0.01	0.014	
5/29/2019 18:39			0	0.126	0.068	0.049	0.067	0.01	0.013	
5/29/2019 18:40	12.2	89.1	0	0.126	0.069	0.049	0.071	0.01	0.013	
5/29/2019 18:41			0	0.126	0.068	0.049	0.058	0.012	0.71	
5/29/2019 18:42			0	0.126	0.067	0.049	0.065	0.012	0.039	
5/29/2019 18:43			0	0.126	0.067	0.05	0.067	0.012	0.033	
5/29/2019 18:44			0	0.126	0.066	0.05	0.065	0.012	0.017	
5/29/2019 18:45	12.1	89.1	0	0.126	0.066	0.05	0.06	0.012	0.012	
5/29/2019 18:46			0	0.126	0.065	0.05	0.067	0.012	0.013	
5/29/2019 18:47			0	0.126	0.065	0.05	0.063	0.012	0.013	
5/29/2019 18:48			0	0.126	0.065	0.05	0.069	0.012	0.013	
5/29/2019 18:49			0	0.126	0.064	0.05	0.064	0.012	0.048	
5/29/2019 18:50	12.1	89.1	0	0.126	0.064	0.051	0.061	0.012	0.012	
5/29/2019 18:51			0	0.126	0.064	0.051	0.066	0.012	0.011	
5/29/2019 18:52			0	0.126	0.064	0.051	0.059	0.012	0.012	
5/29/2019 18:53			0	0.126	0.064	0.051	0.071	0.012	0.048	
5/29/2019 18:54			0	0.126	0.064	0.051	0.065	0.013	0.014	
5/29/2019 18:55	12.1	89.1	0	0.126	0.064	0.051	0.061	0.013	0.012	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/29/2019 18:56			0	0.126	0.063	0.051	0.06	0.013	0.011	
5/29/2019 18:57			0	0.126	0.063	0.051	0.07	0.013	0.012	
5/29/2019 18:58			0	0.126	0.064	0.052	0.078	0.013	0.012	
5/29/2019 18:59			0	0.126	0.064	0.052	0.066	0.013	0.012	
5/29/2019 19:00	12.1	108.3	0	0.126	0.064	0.052	0.073	0.013	0.011	
5/29/2019 19:01			0	0.126	0.065	0.052	0.07	0.013	0.013	
5/29/2019 19:02			0	0.126	0.065	0.052	0.067	0.013	0.012	
5/29/2019 19:03			0	0.126	0.065	0.052	0.064	0.013	0.012	
5/29/2019 19:04			0	0.126	0.065	0.052	0.05	0.013	0.022	
5/29/2019 19:05	12.1	90.1	0	0.126	0.064	0.053	0.06	0.013	0.014	
5/29/2019 19:06			0	0.126	0.064	0.053	0.059	0.013	0.014	
5/29/2019 19:07			0	0.126	0.063	0.053	0.057	0.013	0.014	
5/29/2019 19:08			0	0.126	0.063	0.053	0.052	0.013	0.014	
5/29/2019 19:09			0	0.126	0.063	0.053	0.057	0.013	0.014	
5/29/2019 19:10	12.1	88.1	0	0.126	0.062	0.053	0.057	0.013	0.015	
5/29/2019 19:11			0	0.126	0.062	0.053	0.062	0.013	0.015	
5/29/2019 19:12			0	0.126	0.061	0.053	0.057	0.013	0.015	
5/29/2019 19:13			0	0.126	0.061	0.054	0.051	0.013	0.014	
5/29/2019 19:14			0	0.126	0.059	0.054	0.05	0.013	0.015	
5/29/2019 19:15	12.1	89.1	0	0.126	0.059	0.054	0.045	0.013	0.013	
5/29/2019 19:16			0	0.126	0.058	0.054	0.063	0.013	0.013	
5/29/2019 19:17			0	0.126	0.057	0.054	0.056	0.013	0.014	
5/29/2019 19:18			0	0.126	0.056	0.054	0.064	0.013	0.014	
5/29/2019 19:19			0	0.126	0.056	0.054	0.047	0.013	0.014	
5/29/2019 19:20	12.1	88.1	0	0.126	0.057	0.054	0.064	0.013	0.014	
5/29/2019 19:21			0	0.126	0.056	0.054	0.062	0.013	0.014	
5/29/2019 19:22			0	0.126	0.056	0.055	0.054	0.013	0.013	
5/29/2019 19:23			0	0.126	0.056	0.055	0.055	0.013	0.013	
5/29/2019 19:24			0	0.126	0.056	0.055	0.061	0.013	0.013	
5/29/2019 19:25	12.1	88.1	0	0.126	0.056	0.055	0.052	0.013	0.013	
5/29/2019 19:26			0	0.126	0.056	0.055	0.052	0.013	0.013	
5/29/2019 19:27			0	0.126	0.056	0.055	0.043	0.013	0.013	
5/29/2019 19:28			0	0.126	0.055	0.055	0.064	0.013	0.013	
5/29/2019 19:29			0	0.126	0.055	0.055	0.062	0.013	0.013	
5/29/2019 19:30	12.1	90.1	0	0.126	0.055	0.055	0.06	0.013	0.013	
5/29/2019 19:31			0	0.126	0.055	0.056	0.051	0.013	0.013	
5/29/2019 19:32			0	0.126	0.055	0.056	0.039	0.013	0.013	
5/29/2019 19:33			0	0.126	0.055	0.056	0.052	0.013	0.012	
5/29/2019 19:34			0	0.126	0.054	0.056	0.047	0.013	0.013	
5/29/2019 19:35	12.1	89.1	0	0.126	0.053	0.056	0.065	0.013	0.014	
5/29/2019 19:36			0	0.126	0.053	0.056	0.061	0.013	0.015	
5/29/2019 19:37			0	0.126	0.054	0.056	0.038	0.013	0.015	
5/29/2019 19:38			0	0.126	0.053	0.056	0.051	0.013	0.03	
5/29/2019 19:39			0	0.126	0.053	0.056	0.037	0.013	0.028	
5/29/2019 19:40	12.1	89.1	0	0.126	0.052	0.057	0.05	0.013	0.014	
5/29/2019 19:41			0	0.126	0.051	0.057	0.047	0.013	0.024	
5/29/2019 19:42			0	0.126	0.051	0.057	0.037	0.013	0.036	
5/29/2019 19:43			0	0.126	0.05	0.057	0.055	0.013	0.022	
5/29/2019 19:44			0	0.126	0.05	0.057	0.039	0.013	0.018	
5/29/2019 19:45	12.1	92.1	0	0.126	0.049	0.057	0.049	0.013	0.015	
5/29/2019 19:46			0	0.126	0.048	0.057	0.048	0.013	0.015	
5/29/2019 19:47			0	0.126	0.048	0.057	0.056	0.013	0.016	
5/29/2019 19:48			0	0.126	0.047	0.057	0.058	0.013	0.018	
5/29/2019 19:49			0	0.126	0.047	0.057	0.058	0.013	0.016	
5/29/2019 19:50	12.1	89.1	0	0.126	0.048	0.058	0.053	0.013	0.019	
5/29/2019 19:51			0	0.126	0.047	0.058	0.055	0.013	0.018	
5/29/2019 19:52			0	0.126	0.047	0.058	0.05	0.013	0.019	
5/29/2019 19:53			0	0.126	0.048	0.058	0.052	0.013	0.017	
5/29/2019 19:54			0	0.126	0.048	0.058	0.053	0.013	0.018	
5/29/2019 19:55	12.1	89.1	0	0.126	0.048	0.058	0.049	0.013	0.016	
5/29/2019 19:56			0	0.126	0.049	0.058	0.056	0.013	0.015	
5/29/2019 19:57			0	0.126	0.05	0.058	0.059	0.013	0.014	
5/29/2019 19:58			0	0.126	0.051	0.058	0.059	0.013	0.014	
5/29/2019 19:59			0	0.126	0.051	0.059	0.06	0.013	0.019	
5/29/2019 20:00	12.1	91.1	0	0.126	0.052	0.059	0.062	0.013	0.034	
5/29/2019 20:01			0	0.126	0.054	0.059	0.045	0.013	0.016	
5/29/2019 20:02			0	0.126	0.055	0.059	0.06	0.013	0.014	
5/29/2019 20:03			0	0.126	0.055	0.059	0.058	0.013	0.014	
5/29/2019 20:04			0	0.126	0.055	0.059	0.064	0.013	0.018	
5/29/2019 20:05	12	90.1	0	0.126	0.056	0.059	0.048	0.013	0.014	
5/29/2019 20:06			0	0.126	0.056	0.059	0.063	0.013	0.012	
5/29/2019 20:07			0	0.126	0.056	0.06	0.067	0.013	0.013	
5/29/2019 20:08			0	0.126	0.057	0.06	0.061	0.013	0.012	
5/29/2019 20:09			0	0.126	0.057	0.06	0.057	0.013	0.012	
5/29/2019 20:10	12	90.1	0	0.126	0.057	0.06	0.057	0.013	0.012	
5/29/2019 20:11			0	0.126	0.057	0.06	0.061	0.013	0.014	
5/29/2019 20:12			0	0.126	0.057	0.06	0.058	0.013	0.013	
5/29/2019 20:13			0	0.126	0.057	0.06	0.061	0.013	0.013	
5/29/2019 20:14			0	0.126	0.058	0.06	0.049	0.013	0.029	
5/29/2019 20:15	12	91.1	0	0.126	0.057	0.06	0.062	0.013	0.014	
5/29/2019 20:16			0	0.126	0.057	0.061	0.056	0.013	0.012	
5/29/2019 20:17			0	0.126	0.057	0.061	0.059	0.013	0.012	
5/29/2019 20:18			0	0.126	0.057	0.061	0.057	0.013	0.012	
5/29/2019 20:19			0	0.126	0.058	0.061	0.064	0.013	0.013	
5/29/2019 20:20	12	88.1	0	0.126	0.057	0.061	0.049	0.013	0.013	
5/29/2019 20:21			0	0.126	0.058	0.061	0.068	0.013	0.013	
5/29/2019 20:22			0	0.126	0.058	0.061	0.073	0.013	0.013	
5/29/2019 20:23			0	0.126	0.059	0.062	0.06	0.013	0.014	
5/29/2019 20:24			0	0.126	0.059	0.062	0.064	0.013	0.012	
5/29/2019 20:25	12	90.1	0	0.126	0.06	0.062	0.072	0.013	0.011	
5/29/2019 20:26			0	0.126	0.061	0.062	0.063	0.013	0.012	
5/29/2019 20:27			0	0.126	0.061	0.062	0.061	0.013	0.014	
5/29/2019 20:28			0	0.126	0.062	0.062	0.074	0.013	0.011	
5/29/2019 20:29			0	0.126	0.062	0.062	0.067	0.013	0.011	
5/29/2019 20:30	12	90.1	0	0.126	0.062	0.062	0.07	0.013	0.012	
5/29/2019 20:31			0	0.126	0.062	0.063	0.067	0.013	0.014	
5/29/2019 20:32			0	0.126	0.063	0.063	0.054	0.013	0.014	
5/29/2019 20:33			0	0.126	0.063	0.063	0.054	0.013	0.016	
5/29/2019 20:34			0	0.126	0.062	0.063	0.047	0.013	0.031	
5/29/2019 20:35	12	90.1	0	0.126	0.062	0.063	0.052	0.013	0.019	
5/29/2019 20:36			0	0.126	0.061	0.063	0.061	0.013	0.012	
5/29/2019 20:37			0	0.126	0.061	0.063	0.058	0.013	0.012	
5/29/2019 20:38			0	0.126	0.06	0.063	0.054	0.013	0.012	
5/29/2019 20:39			0	0.126	0.06	0.064	0.062	0.013	0.013	
5/29/2019 20:40	12	89.1	0	0.126	0.059	0.064	0.062	0.013	0.012	
5/29/2019 20:41			0	0.126	0.059	0.064	0.058	0.013	0.013	
5/29/2019 20:42			0	0.126	0.058	0.064	0.061	0.013	0.016	
5/29/2019 20:43			0	0.126	0.059	0.064	0.068	0.013	0.051	
5/29/2019 20:44			0	0.126	0.059	0.064	0.067	0.013	0.018	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/29/2019 20:45	12	90.1	0	0.126	0.06	0.064	0.058	0.013	0.013	
5/29/2019 20:46			0	0.126	0.06	0.064	0.057	0.013	0.011	
5/29/2019 20:47			0	0.126	0.059	0.065	0.053	0.013	0.013	
5/29/2019 20:48			0	0.126	0.059	0.065	0.066	0.013	0.019	
5/29/2019 20:49			0	0.126	0.06	0.065	0.065	0.013	0.014	
5/29/2019 20:50	12	90.1	0	0.126	0.061	0.065	0.063	0.013	0.012	
5/29/2019 20:51			0	0.126	0.061	0.065	0.073	0.013	0.012	
5/29/2019 20:52			0	0.126	0.062	0.065	0.076	0.013	0.012	
5/29/2019 20:53			0	0.126	0.063	0.065	0.066	0.013	0.012	
5/29/2019 20:54			0	0.126	0.064	0.066	0.072	0.013	0.014	
5/29/2019 20:55	12	89.1	0	0.126	0.064	0.066	0.071	0.013	0.012	
5/29/2019 20:56			0	0.126	0.065	0.066	0.067	0.013	0.011	
5/29/2019 20:57			0	0.126	0.065	0.066	0.068	0.013	0.012	
5/29/2019 20:58			0	0.126	0.065	0.066	0.065	0.013	0.012	
5/29/2019 20:59			0	0.126	0.064	0.066	0.057	0.013	0.012	
5/29/2019 21:00	12	91.1	0	0.126	0.064	0.066	0.054	0.013	0.013	
5/29/2019 21:01			0	0.126	0.064	0.066	0.061	0.013	0.012	
5/29/2019 21:02			0	0.126	0.064	0.067	0.058	0.013	0.011	
5/29/2019 21:03			0	0.126	0.064	0.067	0.072	0.013	0.013	
5/29/2019 21:04			0	0.126	0.065	0.067	0.065	0.013	0.017	
5/29/2019 21:05	11.9	91.1	0	0.126	0.064	0.067	0.071	0.013	0.013	
5/29/2019 21:06			0	0.126	0.065	0.067	0.068	0.013	0.013	
5/29/2019 21:07			0	0.126	0.065	0.067	0.08	0.013	0.013	
5/29/2019 21:08			0	0.126	0.065	0.067	0.073	0.013	0.014	
5/29/2019 21:09			0	0.126	0.065	0.068	0.067	0.013	0.014	
5/29/2019 21:10	12	89.1	0	0.126	0.065	0.068	0.066	0.013	0.013	
5/29/2019 21:11			0	0.126	0.065	0.068	0.065	0.013	0.013	
5/29/2019 21:12			0	0.126	0.066	0.068	0.075	0.013	0.013	
5/29/2019 21:13			0	0.126	0.066	0.068	0.074	0.013	0.046	
5/29/2019 21:14			0	0.126	0.067	0.068	0.075	0.013	0.021	
5/29/2019 21:15	12	96.2	0	0.126	0.068	0.068	0.069	0.013	0.229	
5/29/2019 21:16			0	0.126	0.068	0.069	0.074	0.013	0.043	
5/29/2019 21:17			0	0.126	0.069	0.069	0.07	0.013	0.043	
5/29/2019 21:18			0	0.126	0.07	0.069	0.073	0.013	0.025	
5/29/2019 21:19			0	0.126	0.07	0.069	0.081	0.013	0.018	
5/29/2019 21:20	11.9	90.1	0	0.126	0.071	0.069	0.065	0.013	0.017	
5/29/2019 21:21			0	0.126	0.07	0.069	0.065	0.013	0.014	
5/29/2019 21:22			0	0.126	0.07	0.069	0.06	0.013	0.013	
5/29/2019 21:23			0	0.126	0.069	0.07	0.066	0.013	0.014	
5/29/2019 21:24			0	0.126	0.069	0.07	0.063	0.013	0.015	
5/29/2019 21:25	11.9	90.1	0	0.126	0.069	0.07	0.071	0.013	0.018	
5/29/2019 21:26			0	0.126	0.069	0.07	0.074	0.013	0.015	
5/29/2019 21:27			0	0.126	0.068	0.07	0.059	0.013	0.014	
5/29/2019 21:28			0	0.126	0.068	0.07	0.062	0.013	0.013	
5/30/2019 11:54					0	0				
5/30/2019 11:55	12.7	96.2	0	0	0	0	0			
5/30/2019 11:56			0	0	0	0	0	0	0.045	
5/30/2019 11:57			0	0	0	0	0	0	0.039	
5/30/2019 11:58			0	0	0	0	0	0	0.039	
5/30/2019 11:59			0	0	0	0	0	0	0.038	
5/30/2019 12:00	12.5	96.2	0	0	0	0	0	0	0.038	
5/30/2019 12:01			0	0	0	0	0	0	0.038	
5/30/2019 12:02			0	0	0	0	0	0	0.038	
5/30/2019 12:03			0	0	0	0	0	0	0.038	
5/30/2019 12:04			0	0	0	0	0	0	0.037	
5/30/2019 12:05	12.5	103.2	0	0	0	0	0	0	0.037	
5/30/2019 12:06			0	0	0	0	0	0	0.036	
5/30/2019 12:07			0	0	0	0	0	0	0.036	
5/30/2019 12:08			0	0	0	0	0	0	0.036	
5/30/2019 12:09			0	0	0	0	0	0	0.037	
5/30/2019 12:10	12.5	97.2	0	0	0	0	0	0	0.034	
5/30/2019 12:11			0	0	0	0	0	0.001	0.034	
5/30/2019 12:12			0	0	0	0	0	0.001	0.033	
5/30/2019 12:13			0	0	0	0	0	0.001	0.032	
5/30/2019 12:14			0	0	0	0	0	0.001	0.031	
5/30/2019 12:15	12.5	106.3	0	0	0	0	0	0.001	0.031	
5/30/2019 12:16			0	0	0	0	0	0.002	0.029	
5/30/2019 12:17			0	0	0	0	0	0.002	0.028	
5/30/2019 12:18			0	0	0	0	0	0.002	0.029	
5/30/2019 12:19			0	0	0	0	0	0.002	0.028	
5/30/2019 12:20	12.4	104.3	0	0	0	0	0	0.002	0.028	
5/30/2019 12:21			0	0	0	0	0	0.002	0.027	
5/30/2019 12:22			0	0	0	0	0	0.002	0.027	
5/30/2019 12:23			0	0	0	0	0	0.002	0.027	
5/30/2019 12:24			0	0	0	0	0	0.002	0.027	
5/30/2019 12:25	12.4	125.5	0	0	0	0	0	0.002	0.027	
5/30/2019 12:26			0	0	0	0	0	0.002	0.027	
5/30/2019 12:27			0	0	0	0	0	0.002	0.027	
5/30/2019 12:28			0	0	0	0	0	0.002	0.026	
5/30/2019 12:29			0	0	0	0	0	0.002	0.027	
5/30/2019 12:30	12.4	102.2	0	0	0	0	0	0.002	0.026	
5/30/2019 12:31			0	0	0	0	0	0.002	0.025	
5/30/2019 12:32			0	0	0	0	0	0.002	0.026	
5/30/2019 12:33			0	0	0	0	0	0.002	0.026	
5/30/2019 12:34			0	0	0	0	0	0.003	0.025	
5/30/2019 12:35	12.4	101.2	0	0	0	0	0	0.003	0.025	42.43246;-76.4971
5/30/2019 12:36			0	0	0	0	0	0.003	0.074	
5/30/2019 12:37			0	0	0	0	0	0.003	0.028	
5/30/2019 12:38			0	0	0	0	0	0.003	0.029	
5/30/2019 12:39			0	0	0	0	0	0.003	0.028	
5/30/2019 12:40	12.3	107.3	0	0	0	0	0	0.003	0.028	42.43252;-76.49717
5/30/2019 12:41			0	0	0	0	0	0.003	0.027	
5/30/2019 12:42			0	0	0	0	0	0.003	0.027	
5/30/2019 12:43			0	0	0	0	0	0.003	0.026	
5/30/2019 12:44			0	0	0	0	0	0.003	0.028	
5/30/2019 12:45	12.3	101.2	0	0	0	0	0	0.003	0.031	42.43248;-76.49722
5/30/2019 12:46			0	0	0	0	0	0.003	0.024	
5/30/2019 12:47			0	0	0	0	0	0.003	0.023	
5/30/2019 12:48			0	0	0	0	0	0.003	0.022	
5/30/2019 12:49			0	0	0	0	0	0.003	0.022	
5/30/2019 12:50	12.3	99.2	0	0	0	0	0	0.004	0.025	42.43247;-76.49723
5/30/2019 12:51			0	0	0	0	0	0.004	0.024	
5/30/2019 12:52			0	0	0	0	0	0.004	0.022	
5/30/2019 12:53			0	0	0	0	0	0.004	0.021	
5/30/2019 12:54			0	0	0	0	0	0.004	0.021	
5/30/2019 12:55	12.3	100.2	0	0	0	0	0	0.004	0.021	42.4325;-76.49713
5/30/2019 12:56			0	0	0	0	0	0.004	0.021	
5/30/2019 12:57			0	0	0	0	0	0.004	0.022	
5/30/2019 12:58			0	0	0	0	0	0.004	0.02	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/30/2019 12:59			0	0	0	0	0	0.004	0.02	
5/30/2019 13:00	12.3	99.2	0	0	0	0	0	0.004	0.019	42.43255;-76.49702
5/30/2019 13:01			0	0	0	0	0	0.004	0.019	
5/30/2019 13:02			0	0.012	0	0	0	0.004	0.067	
5/30/2019 13:03			0	0.012	0	0	0	0.004	0.09	
5/30/2019 13:04			0	0.012	0	0	0	0.004	0.025	
5/30/2019 13:05	12.3	100.2	0	0.012	0	0	0	0.004	0.021	42.43254;-76.49693
5/30/2019 13:06			0	0.012	0	0	0	0.004	0.021	
5/30/2019 13:07			0	0.012	0	0	0	0.004	0.02	
5/30/2019 13:08			0	0.012	0	0	0	0.005	0.02	
5/30/2019 13:09			0	0.012	0	0	0	0.005	0.02	
5/30/2019 13:10	12.3	106.3	0	0.012	0	0	0	0.005	0.025	42.43244;-76.49705
5/30/2019 13:11			0	0.012	0	0	0	0.005	0.033	
5/30/2019 13:12			0	0.012	0	0	0	0.005	0.024	
5/30/2019 13:13			0	0.012	0	0	0	0.005	0.021	
5/30/2019 13:14			0	0.012	0	0	0	0.005	0.02	
5/30/2019 13:15	12.3	111.3	0	0.012	0	0	0	0.005	0.02	42.4325;-76.49696
5/30/2019 13:16			0	0.012	0	0	0	0.005	0.02	
5/30/2019 13:17			0	0.012	0	0	0	0.005	0.019	
5/30/2019 13:18			0	0.012	0	0	0	0.005	0.019	
5/30/2019 13:19			0	0.012	0	0	0	0.005	0.019	
5/30/2019 13:20	12.3	98.2	0	0.012	0	0	0	0.005	0.019	42.43254;-76.49697
5/30/2019 13:21			0	0.012	0	0	0	0.005	0.018	
5/30/2019 13:22			0	0.012	0	0	0	0.005	0.019	
5/30/2019 13:23			0	0.012	0	0	0	0.005	0.018	
5/30/2019 13:24			0	0.012	0	0	0	0.005	0.021	
5/30/2019 13:25	12.4	98.2	0	0.012	0	0	0	0.005	0.02	42.43256;-76.49686
5/30/2019 13:26			0	0.012	0	0	0	0.005	0.018	
5/30/2019 13:27			0	0.012	0	0	0	0.005	0.018	
5/30/2019 13:28			0	0.012	0	0	0	0.005	0.019	
5/30/2019 13:29			0	0.012	0	0	0	0.005	0.017	
5/30/2019 13:30	12.3	106.3	0	0.012	0	0	0	0.005	0.017	42.43237;-76.49747
5/30/2019 13:31			0	0.012	0	0	0	0.006	0.017	
5/30/2019 13:32			0	0.012	0	0	0	0.006	0.017	
5/30/2019 13:33			0	0.012	0	0	0	0.006	0.018	
5/30/2019 13:34			0	0.012	0	0	0	0.006	0.017	
5/30/2019 13:35	12.3	115.4	0	0.012	0	0	0	0.006	0.038	42.43244;-76.49729
5/30/2019 13:36			0	0.028	0	0	0	0.006	0.089	
5/30/2019 13:37			0	0.028	0	0	0	0.006	0.03	
5/30/2019 13:38			0	0.028	0	0	0	0.006	0.024	
5/30/2019 13:39			0	0.028	0	0	0	0.006	0.039	
5/30/2019 13:40	12.3	98.2	0	0.028	0	0	0	0.006	0.023	42.43246;-76.49725
5/30/2019 13:41			0	0.028	0	0	0	0.006	0.02	
5/30/2019 13:42			0	0.028	0	0	0	0.006	0.018	
5/30/2019 13:43			0	0.028	0	0	0	0.006	0.016	
5/30/2019 13:44			0	0.028	0	0	0.001	0.006	0.037	
5/30/2019 13:45	12.3	110.3	0	0.028	0	0	0.001	0.006	0.031	42.43251;-76.49718
5/30/2019 13:46			0	0.028	0.001	0	0	0.006	0.026	
5/30/2019 13:47			0	0.028	0.001	0	0.002	0.006	0.019	
5/30/2019 13:48			0	0.028	0.001	0	0.007	0.006	0.017	
5/30/2019 13:49			0	0.028	0.002	0	0.019	0.007	0.016	
5/30/2019 13:50	12.3	98.2	0	0.028	0.003	0	0.004	0.007	0.018	42.4325;-76.49712
5/30/2019 13:51			0	0.028	0.003	0	0.007	0.007	0.016	
5/30/2019 13:52			0	0.028	0.003	0	0.009	0.007	0.016	
5/30/2019 13:53			0	0.028	0.003	0	0.005	0.007	0.016	
5/30/2019 13:54			0	0.028	0.004	0	0.007	0.007	0.015	
5/30/2019 13:55	12.3	115.4	0	0.028	0.005	0	0.015	0.007	0.015	42.43252;-76.49699
5/30/2019 13:56			0	0.028	0.005	0	0.016	0.007	0.016	
5/30/2019 13:57			0	0.028	0.006	0	0.013	0.007	0.016	
5/30/2019 13:58			0	0.028	0.007	0	0.009	0.007	0.016	
5/30/2019 13:59			0	0.028	0.008	0	0.009	0.007	0.016	
5/30/2019 14:00	12.3	109.3	0	0.028	0.008	0	0.011	0.007	0.016	42.43265;-76.49683
5/30/2019 14:01			0	0.033	0.009	0	0.018	0.007	0.016	
5/30/2019 14:02			0	0.033	0.01	0	0.019	0.007	0.015	
5/30/2019 14:03			0	0.033	0.01	0	0.014	0.007	0.015	
5/30/2019 14:04			0	0.033	0.011	0	0.023	0.007	0.014	
5/30/2019 14:05	12.3	99.2	0	0.033	0.011	0	0.015	0.007	0.014	42.43269;-76.49678
5/30/2019 14:06			0	0.112	0.012	0	0.05	0.007	0.062	
5/30/2019 14:07			0	0.112	0.014	0	0.024	0.007	0.058	
5/30/2019 14:08			0	0.112	0.015	0	0.023	0.007	0.015	
5/30/2019 14:09			0	0.112	0.016	0	0.023	0.007	0.015	
5/30/2019 14:10	12.3	98.2	0	0.112	0.017	0	0.028	0.007	0.015	42.43264;-76.49701
5/30/2019 14:11			0	0.112	0.018	0	0.03	0.007	0.014	
5/30/2019 14:12			0	0.112	0.019	0	0.03	0.007	0.014	
5/30/2019 14:13			0	0.112	0.02	0	0.025	0.007	0.013	
5/30/2019 14:14			0	0.112	0.02	0	0.027	0.008	0.013	
5/30/2019 14:15	12.3	102.2	0	0.112	0.021	0	0.025	0.008	0.021	42.43266;-76.4969
5/30/2019 14:16			0	0.112	0.021	0.001	0.024	0.008	0.042	
5/30/2019 14:17			0	0.112	0.022	0.001	0.015	0.008	0.017	
5/30/2019 14:18			0	0.112	0.022	0.001	0.021	0.008	0.015	
5/30/2019 14:19			0	0.112	0.022	0.001	0.029	0.008	0.014	
5/30/2019 14:20	12.3	99.2	0	0.112	0.023	0.001	0.021	0.008	0.013	42.43261;-76.49696
5/30/2019 14:21			0	0.112	0.024	0.001	0.033	0.008	0.013	
5/30/2019 14:22			0	0.112	0.024	0.001	0.034	0.008	0.013	
5/30/2019 14:23			0	0.112	0.025	0.001	0.036	0.008	0.013	
5/30/2019 14:24			0	0.112	0.026	0.001	0.04	0.008	0.012	
5/30/2019 14:25	12.3	99.2	0	0.112	0.027	0.001	0.047	0.008	0.014	42.43259;-76.49651
5/30/2019 14:26			0	0.112	0.028	0.001	0.026	0.008	0.012	
5/30/2019 14:27			0	0.112	0.028	0.001	0.047	0.008	0.012	
5/30/2019 14:28			0	0.112	0.03	0.001	0.035	0.008	0.012	
5/30/2019 14:29			0	0.112	0.031	0.001	0.03	0.008	0.012	
5/30/2019 14:30	12.3	104.3	0	0.112	0.032	0.001	0.039	0.008	0.012	42.4326;-76.49679
5/30/2019 14:31			0	0.112	0.033	0.002	0.046	0.008	0.013	
5/30/2019 14:32			0	0.112	0.034	0.002	0.04	0.008	0.013	
5/30/2019 14:33			0	0.112	0.035	0.002	0.035	0.008	0.012	
5/30/2019 14:34			0	0.112	0.036	0.002	0.034	0.008	0.012	
5/30/2019 14:35	12.3	98.2	0	0.112	0.037	0.002	0.032	0.008	0.014	42.43256;-76.49689
5/30/2019 14:36			0	0.112	0.037	0.002	0.027	0.008	0.012	
5/30/2019 14:37			0	0.112	0.037	0.002	0.034	0.008	0.012	
5/30/2019 14:38			0	0.112	0.037	0.002	0.037	0.008	0.012	
5/30/2019 14:39			0	0.112	0.037	0.002	0.045	0.008	0.014	
5/30/2019 14:40	12.3	99.2	0	0.112	0.037	0.002	0.044	0.008	0.012	42.43232;-76.49643
5/30/2019 14:41			0	0.112	0.038	0.002	0.032	0.008	0.012	
5/30/2019 14:42			0	0.112	0.038	0.002	0.036	0.008	0.013	
5/30/2019 14:43			0	0.112	0.037	0.002	0.037	0.008	0.014	
5/30/2019 14:44			0	0.112	0.038	0.003	0.039	0.008	0.014	
5/30/2019 14:45	12.3	99.2	0	0.112	0.038	0.003	0.054	0.008	0.013	42.43261;-76.49654
5/30/2019 14:46			0	0.112	0.039	0.003	0.041	0.008	0.013	
5/30/2019 14:47			0	0.112	0.04	0.003	0.101	0.008	0.021	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/30/2019 14:48			0	0.123	0.042	0.003	0.07	0.009	0.014	
5/30/2019 14:49			0	0.123	0.044	0.003	0.058	0.009	0.013	
5/30/2019 14:50	12.3	98.2	0	0.123	0.045	0.003	0.047	0.009	0.019	42.43264;-76.49677
5/30/2019 14:51			0	0.123	0.046	0.003	0.045	0.009	0.012	
5/30/2019 14:52			0	0.123	0.047	0.003	0.05	0.009	0.012	
5/30/2019 14:53			0	0.123	0.048	0.004	0.064	0.009	0.012	
5/30/2019 14:54			0	0.123	0.049	0.004	0.057	0.009	0.011	
5/30/2019 14:55	12.3	98.2	0	0.123	0.05	0.004	0.055	0.009	0.011	42.43266;-76.49674
5/30/2019 14:56			0	0.123	0.05	0.004	0.053	0.009	0.038	
5/30/2019 14:57			0	0.123	0.052	0.004	0.053	0.009	0.023	
5/30/2019 14:58			0	0.123	0.053	0.004	0.057	0.009	0.013	
5/30/2019 14:59			0	0.123	0.054	0.004	0.044	0.009	0.013	
5/30/2019 15:00	12.3	98.2	0	0.123	0.054	0.004	0.055	0.009	0.011	42.43271;-76.49673
5/30/2019 15:01			0	0.123	0.055	0.005	0.061	0.009	0.011	
5/30/2019 15:02			0	0.123	0.055	0.005	0.058	0.009	0.011	
5/30/2019 15:03			0	0.123	0.054	0.005	0.056	0.009	0.011	
5/30/2019 15:04			0	0.123	0.053	0.005	0.051	0.009	0.011	
5/30/2019 15:05	12.3	106.3	0	0.123	0.053	0.005	0.054	0.009	0.011	42.43286;-76.49677
5/30/2019 15:06			0	0.123	0.053	0.005	0.053	0.009	0.012	
5/30/2019 15:07			0	0.123	0.054	0.005	0.058	0.009	0.011	
5/30/2019 15:08			0	0.123	0.054	0.005	0.047	0.009	0.011	
5/30/2019 15:09			0	0.123	0.054	0.005	0.05	0.009	0.012	
5/30/2019 15:10	12.3	99.2	0	0.123	0.054	0.006	0.054	0.009	0.011	42.43253;-76.49689
5/30/2019 15:11			0	0.123	0.053	0.006	0.055	0.009	0.011	
5/30/2019 15:12			0	0.123	0.053	0.006	0.052	0.009	0.011	
5/30/2019 15:13			0	0.123	0.053	0.006	0.043	0.009	0.011	
5/30/2019 15:14			0	0.123	0.052	0.006	0.055	0.009	0.014	
5/30/2019 15:15	12.3	100.2	0	0.123	0.053	0.006	0.063	0.009	0.078	42.43267;-76.497
5/30/2019 15:16			0	0.123	0.053	0.006	0.037	0.009	0.02	
5/30/2019 15:17			0	0.123	0.052	0.006	0.05	0.009	0.011	
5/30/2019 15:18			0	0.123	0.052	0.006	0.05	0.009	0.011	
5/30/2019 15:19			0	0.123	0.052	0.006	0.059	0.01	0.011	
5/30/2019 15:20	12.3	107.3	0	0.123	0.052	0.007	0.056	0.01	0.013	42.43264;-76.49696
5/30/2019 15:21			0	0.123	0.052	0.007	0.056	0.01	0.014	
5/30/2019 15:22			0	0.123	0.051	0.007	0.054	0.01	0.021	
5/30/2019 15:23			0	0.123	0.051	0.007	0.052	0.01	0.012	
5/30/2019 15:24			0	0.123	0.052	0.007	0.06	0.01	0.011	
5/30/2019 15:25	12.3	105.3	0	0.123	0.052	0.007	0.063	0.01	0.011	42.43238;-76.49744
5/30/2019 15:26			0	0.123	0.054	0.007	0.073	0.01	0.016	
5/30/2019 15:27			0	0.123	0.055	0.007	0.058	0.01	0.01	
5/30/2019 15:28			0	0.123	0.056	0.008	0.058	0.01	0.01	
5/30/2019 15:29			0	0.123	0.057	0.008	0.058	0.01	0.01	
5/30/2019 15:30	12.3	100.2	0	0.123	0.056	0.008	0.06	0.01	0.01	42.43256;-76.49693
5/30/2019 15:31			0	0.123	0.056	0.008	0.066	0.01	0.011	
5/30/2019 15:32			0	0.123	0.057	0.008	0.052	0.01	0.011	
5/30/2019 15:33			0	0.123	0.057	0.008	0.065	0.01	0.01	
5/30/2019 15:34			0	0.123	0.058	0.008	0.061	0.01	0.011	
5/30/2019 15:35	12.2	99.2	0	0.123	0.059	0.008	0.056	0.01	0.011	42.43251;-76.49691
5/30/2019 15:36			0	0.123	0.059	0.009	0.057	0.01	0.01	
5/30/2019 15:37			0	0.123	0.059	0.009	0.063	0.01	0.01	
5/30/2019 15:38			0	0.123	0.06	0.009	0.067	0.01	0.01	
5/30/2019 15:39			0	0.123	0.06	0.009	0.07	0.01	0.01	
5/30/2019 15:40	12.2	109.3	0	0.123	0.061	0.009	0.068	0.01	0.01	42.43249;-76.49718
5/30/2019 15:41			0	0.123	0.061	0.009	0.066	0.01	0.01	
5/30/2019 15:42			0	0.123	0.06	0.009	0.063	0.01	0.01	
5/30/2019 15:43			0	0.123	0.06	0.009	0.057	0.01	0.01	
5/30/2019 15:44			0	0.123	0.061	0.01	0.057	0.01	0.01	
5/30/2019 15:45	12.2	99.2	0	0.123	0.061	0.01	0.074	0.01	0.016	42.43252;-76.49706
5/30/2019 15:46			0	0.123	0.062	0.01	0.06	0.011	0.19	
5/30/2019 15:47			0	0.123	0.062	0.01	0.063	0.011	0.013	
5/30/2019 15:48			0	0.123	0.062	0.01	0.061	0.011	0.011	
5/30/2019 15:49			0	0.123	0.062	0.01	0.064	0.011	0.011	
5/30/2019 15:50	12.2	108.3	0	0.123	0.062	0.01	0.059	0.011	0.011	42.43252;-76.49698
5/30/2019 15:51			0	0.123	0.063	0.011	0.061	0.011	0.01	
5/30/2019 15:52			0	0.123	0.063	0.011	0.072	0.011	0.01	
5/30/2019 15:53			0	0.123	0.063	0.011	0.066	0.011	0.013	
5/30/2019 15:54			0	0.123	0.063	0.011	0.071	0.011	0.031	
5/30/2019 15:55	12.2	104.3	0	0.123	0.063	0.011	0.066	0.011	0.01	42.43254;-76.49715
5/30/2019 15:56			0	0.123	0.063	0.011	0.05	0.011	0.011	
5/30/2019 15:57			0	0.123	0.063	0.011	0.065	0.011	0.011	
5/30/2019 15:58			0	0.123	0.063	0.011	0.063	0.011	0.011	
5/30/2019 15:59			0	0.123	0.063	0.012	0.065	0.011	0.01	
5/30/2019 16:00	12.2	113.4	0	0.123	0.063	0.012	0.064	0.011	0.01	42.43243;-76.49704
5/30/2019 16:01			0	0.123	0.063	0.012	0.068	0.011	0.01	
5/30/2019 16:02			0	0.123	0.062	0.012	0.061	0.011	0.01	
5/30/2019 16:03			0	0.123	0.062	0.012	0.064	0.011	0.01	
5/30/2019 16:04			0	0.123	0.062	0.012	0.056	0.011	0.01	
5/30/2019 16:05	12.2	99.2	0	0.123	0.062	0.012	0.072	0.011	0.01	42.4324;-76.49732
5/30/2019 16:06			0	0.123	0.062	0.012	0.059	0.011	0.01	
5/30/2019 16:07			0	0.123	0.062	0.013	0.057	0.011	0.01	
5/30/2019 16:08			0	0.123	0.061	0.013	0.053	0.011	0.01	
5/30/2019 16:09			0	0.123	0.061	0.013	0.047	0.011	0.01	
5/30/2019 16:10	12.2	101.2	0	0.123	0.06	0.013	0.058	0.011	0.01	42.43232;-76.49725
5/30/2019 16:11			0	0.123	0.059	0.013	0.053	0.011	0.01	
5/30/2019 16:12			0	0.123	0.059	0.013	0.065	0.011	0.01	
5/30/2019 16:13			0	0.123	0.059	0.013	0.05	0.011	0.01	
5/30/2019 16:14			0	0.123	0.058	0.013	0.049	0.011	0.01	
5/30/2019 16:15	12.2	100.2	0	0.123	0.057	0.014	0.052	0.011	0.01	42.43233;-76.4972
5/30/2019 16:16			0	0.123	0.057	0.014	0.062	0.011	0.01	
5/30/2019 16:17			0	0.123	0.056	0.014	0.066	0.011	0.01	
5/30/2019 16:18			0	0.123	0.057	0.014	0.067	0.011	0.01	
5/30/2019 16:19			0	0.123	0.057	0.014	0.064	0.011	0.01	
5/30/2019 16:20	12.2	109.3	0	0.123	0.058	0.014	0.07	0.011	0.01	42.43235;-76.49712
5/30/2019 16:21			0	0.123	0.058	0.014	0.058	0.011	0.01	
5/30/2019 16:22			0	0.123	0.058	0.014	0.053	0.011	0.01	
5/30/2019 16:23			0	0.123	0.058	0.015	0.056	0.011	0.01	
5/30/2019 16:24			0	0.123	0.058	0.015	0.051	0.011	0.01	
5/30/2019 16:25	12.2	106.3	0	0.123	0.058	0.015	0.073	0.011	0.01	42.43235;-76.49717
5/30/2019 16:26			0	0.123	0.058	0.015	0.068	0.011	0.01	
5/30/2019 16:27			0	0.123	0.06	0.015	0.069	0.011	0.01	
5/30/2019 16:28			0	0.123	0.06	0.015	0.064	0.011	0.009	
5/30/2019 16:29			0	0.123	0.061	0.015	0.077	0.011	0.009	
5/30/2019 16:30	12.2	100.2	0	0.123	0.062	0.015	0.07	0.012	0.009	42.43245;-76.49701
5/30/2019 16:31			0	0.123	0.063	0.016	0.071	0.012	0.009	
5/30/2019 16:32			0	0.123	0.064	0.016	0.071	0.012	0.01	
5/30/2019 16:33			0	0.123	0.064	0.016	0.075	0.012	0.01	
5/30/2019 16:34			0	0.123	0.065	0.016	0.076	0.012	0.01	
5/30/2019 16:35	12.2	99.2	0	0.123	0.066	0.016	0.066	0.012	0.01	42.43233;-76.49724
5/30/2019 16:36			0	0.123	0.066	0.016	0.07	0.012	0.01	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/30/2019 16:37			0	0.123	0.067	0.017	0.071	0.012	0.014	
5/30/2019 16:38			0	0.123	0.067	0.017	0.068	0.012	0.015	
5/30/2019 16:39			0	0.123	0.068	0.017	0.058	0.012	0.011	
5/30/2019 16:40	12.2	100.2	0	0.123	0.068	0.017	0.069	0.012	0.009	42.43216;-76.49762
5/30/2019 16:41			0	0.123	0.068	0.017	0.065	0.012	0.009	
5/30/2019 16:42			0	0.123	0.068	0.017	0.06	0.012	0.009	
5/30/2019 16:43			0	0.123	0.068	0.017	0.073	0.012	0.028	
5/30/2019 16:44			0	0.123	0.068	0.017	0.062	0.012	0.01	
5/30/2019 16:45	12.2	104.3	0	0.123	0.068	0.018	0.067	0.012	0.01	42.43261;-76.49683
5/30/2019 16:46			0	0.123	0.068	0.018	0.081	0.012	0.009	
5/30/2019 16:47			0	0.123	0.068	0.018	0.064	0.012	0.01	
5/30/2019 16:48			0	0.123	0.068	0.018	0.068	0.012	0.009	
5/30/2019 16:49			0	0.123	0.068	0.018	0.074	0.012	0.009	
5/30/2019 16:50	12.2	101.2	0	0.123	0.068	0.018	0.064	0.012	0.009	42.43253;-76.49699
5/30/2019 16:51			0	0.123	0.068	0.019	0.068	0.012	0.009	
5/30/2019 16:52			0	0.123	0.068	0.019	0.074	0.012	0.009	
5/30/2019 16:53			0	0.123	0.068	0.019	0.078	0.012	0.01	
5/30/2019 16:54			0	0.123	0.069	0.019	0.079	0.012	0.01	
5/30/2019 16:55	12.2	100.2	0	0.123	0.07	0.019	0.074	0.012	0.009	42.43269;-76.49663
5/30/2019 16:56			0	0.123	0.07	0.019	0.062	0.012	0.009	
5/30/2019 16:57			0	0.123	0.07	0.019	0.081	0.012	0.009	
5/30/2019 16:58			0	0.123	0.07	0.02	0.069	0.012	0.009	
5/30/2019 16:59			0	0.123	0.07	0.02	0.062	0.012	0.009	
5/30/2019 17:00	12.2	107.3	0	0.123	0.071	0.02	0.077	0.012	0.022	42.43273;-76.49648
5/30/2019 17:01			0	0.123	0.071	0.02	0.062	0.012	0.022	
5/30/2019 17:02			0	0.123	0.071	0.02	0.073	0.012	0.013	
5/30/2019 17:03			0	0.123	0.071	0.02	0.063	0.012	0.012	
5/30/2019 17:04			0	0.123	0.071	0.02	0.084	0.012	0.01	
5/30/2019 17:05	12.2	104.3	0	0.123	0.072	0.021	0.074	0.012	0.009	42.43268;-76.49664
5/30/2019 17:06			0	0.123	0.072	0.021	0.068	0.012	0.01	
5/30/2019 17:07			0	0.123	0.073	0.021	0.077	0.012	0.009	
5/30/2019 17:08			0	0.123	0.073	0.021	0.072	0.012	0.009	
5/30/2019 17:09			0	0.123	0.073	0.021	0.058	0.012	0.01	
5/30/2019 17:10	12.1	101.2	0	0.123	0.072	0.021	0.073	0.012	0.009	42.43266;-76.49678
5/30/2019 17:11			0	0.123	0.072	0.022	0.084	0.012	0.009	
5/30/2019 17:12			0	0.123	0.073	0.022	0.079	0.012	0.01	
5/30/2019 17:13			0	0.123	0.074	0.022	0.074	0.012	0.01	
5/30/2019 17:14			0	0.193	0.075	0.022	0.061	0.013	0.116	
5/30/2019 17:15	12.1	107.3	0	0.193	0.075	0.022	0.067	0.013	0.012	42.43263;-76.49639
5/30/2019 17:16			0	0.193	0.074	0.022	0.07	0.013	0.01	
5/30/2019 17:17			0	0.193	0.074	0.023	0.072	0.013	0.01	
5/30/2019 17:18			0	0.193	0.074	0.023	0.064	0.013	0.01	
5/30/2019 17:19			0	0.193	0.073	0.023	0.064	0.013	0.015	
5/30/2019 17:20	12.1	99.2	0	0.193	0.072	0.023	0.078	0.013	0.013	42.43261;-76.49685
5/30/2019 17:21			0	0.193	0.071	0.023	0.06	0.013	0.012	
5/30/2019 17:22			0	0.193	0.07	0.023	0.06	0.013	0.01	
5/30/2019 17:23			0	0.193	0.07	0.023	0.049	0.013	0.013	
5/30/2019 17:24			0	0.193	0.069	0.023	0.067	0.013	0.01	
5/30/2019 17:25	12.2	106.3	0	0.193	0.069	0.024	0.057	0.013	0.01	42.43259;-76.49682
5/30/2019 17:26			0	0.193	0.068	0.024	0.06	0.013	0.011	
5/30/2019 17:27			0	0.193	0.067	0.024	0.062	0.013	0.02	
5/30/2019 17:28			0	0.193	0.066	0.024	0.059	0.013	0.012	
5/30/2019 17:29			0	0.193	0.064	0.024	0.055	0.013	0.01	
5/30/2019 17:30	12.1	101.2	0	0.193	0.063	0.024	0.063	0.013	0.01	42.43188;-76.49987
5/30/2019 17:31			0	0.193	0.062	0.024	0.065	0.013	0.009	
5/30/2019 17:32			0	0.193	0.062	0.024	0.073	0.013	0.01	
5/30/2019 17:33			0	0.193	0.061	0.025	0.063	0.013	0.009	
5/30/2019 17:34			0	0.193	0.061	0.025	0.056	0.013	0.011	
5/30/2019 17:35	12.1	101.2	0	0.193	0.06	0.025	0.077	0.013	0.01	42.43269;-76.49657
5/30/2019 17:36			0	0.193	0.06	0.025	0.055	0.013	0.024	
5/30/2019 17:37			0	0.193	0.059	0.025	0.06	0.013	0.029	
5/30/2019 17:38			0	0.193	0.059	0.025	0.064	0.013	0.018	
5/30/2019 17:39			0	0.193	0.059	0.025	0.065	0.013	0.01	
5/30/2019 17:40	12.1	103.2	0	0.193	0.058	0.025	0.063	0.013	0.009	42.43274;-76.49663
5/30/2019 17:41			0	0.193	0.058	0.026	0.056	0.013	0.009	
5/30/2019 17:42			0	0.193	0.058	0.026	0.06	0.013	0.009	
5/30/2019 17:43			0	0.193	0.057	0.026	0.076	0.013	0.016	
5/30/2019 17:44			0	0.193	0.058	0.026	0.061	0.014	0.03	
5/30/2019 17:45	12.1	113.4	0	0.193	0.058	0.026	0.053	0.014	0.016	42.43277;-76.49674
5/30/2019 17:46			0	0.193	0.058	0.026	0.06	0.014	0.011	
5/30/2019 17:47			0	0.193	0.058	0.026	0.063	0.014	0.01	
5/30/2019 17:48			0	0.193	0.057	0.026	0.061	0.014	0.011	
5/30/2019 17:49			0	0.193	0.057	0.026	0.048	0.014	0.009	
5/30/2019 17:50	12.1	103.2	0	0.193	0.057	0.027	0.058	0.014	0.009	42.43263;-76.49702
5/30/2019 17:51			0	0.193	0.057	0.027	0.06	0.014	0.027	
5/30/2019 17:52			0	0.193	0.058	0.027	0.071	0.014	0.013	
5/30/2019 17:53			0	0.193	0.059	0.027	0.069	0.014	0.013	
5/30/2019 17:54			0	0.193	0.059	0.027	0.065	0.014	0.011	
5/30/2019 17:55	12.1	99.2	0	0.193	0.059	0.027	0.071	0.014	0.011	42.43262;-76.49722
5/30/2019 17:56			0	0.193	0.06	0.027	0.072	0.014	0.01	
5/30/2019 17:57			0	0.193	0.06	0.028	0.079	0.014	0.032	
5/30/2019 17:58			0	0.193	0.06	0.028	0.071	0.014	0.02	
5/30/2019 17:59			0	0.193	0.06	0.028	0.051	0.014	0.012	
5/30/2019 18:00	12	136.6	0	0.193	0.06	0.028	0.071	0.014	0.01	42.4326;-76.49712
5/30/2019 18:01			0	0.193	0.061	0.028	0.057	0.014	0.01	
5/30/2019 18:02			0	0.193	0.062	0.028	0.081	0.014	0.01	
5/30/2019 18:03			0	0.193	0.064	0.028	0.063	0.014	0.01	
5/30/2019 18:04			0	0.193	0.065	0.029	0.061	0.014	0.011	
5/30/2019 18:05	12.1	100.2	0	0.193	0.066	0.029	0.071	0.014	0.012	42.4327;-76.49702
5/30/2019 18:06			0	0.193	0.066	0.029	0.071	0.014	0.012	
5/30/2019 18:07			0	0.193	0.066	0.029	0.07	0.014	0.011	
5/30/2019 18:08			0	0.193	0.066	0.029	0.063	0.014	0.011	
5/30/2019 18:09			0	0.193	0.067	0.029	0.086	0.014	0.133	
5/30/2019 18:10	12	104.3	0	0.193	0.068	0.029	0.061	0.015	0.049	42.43263;-76.49705
5/30/2019 18:11			0	0.193	0.068	0.03	0.056	0.015	0.019	
5/30/2019 18:12			0	0.193	0.068	0.03	0.069	0.015	0.012	
5/30/2019 18:13			0	0.193	0.068	0.03	0.068	0.015	0.011	
5/30/2019 18:14			0	0.193	0.068	0.03	0.066	0.015	0.011	
5/30/2019 18:15	12.1	109.3	0	0.193	0.069	0.03	0.064	0.015	0.011	42.43254;-76.49704
5/30/2019 18:16			0	0.193	0.069	0.03	0.069	0.015	0.012	
5/30/2019 18:17			0	0.193	0.069	0.03	0.07	0.015	0.011	
5/30/2019 18:18			0	0.193	0.069	0.031	0.074	0.015	0.025	
5/30/2019 18:19			0	0.193	0.07	0.031	0.079	0.015	0.03	
5/30/2019 18:20	12	106.3	0	0.193	0.07	0.031	0.079	0.015	0.02	42.43253;-76.4971
5/30/2019 18:21			0	0.193	0.07	0.031	0.083	0.015	0.013	
5/30/2019 18:22			0	0.193	0.071	0.031	0.087	0.015	0.012	
5/30/2019 18:23			0	0.193	0.072	0.031	0.083	0.015	0.012	
5/30/2019 18:24			0	0.193	0.072	0.032	0.077	0.015	0.012	
5/30/2019 18:25	12.1	107.3	0	0.193	0.071	0.032	0.067	0.015	0.012	42.43253;-76.49707

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/30/2019 18:26			0	0.193	0.072	0.032	0.082	0.015	0.011	
5/30/2019 18:27			0	0.193	0.073	0.032	0.059	0.015	0.012	
5/30/2019 18:28			0	0.193	0.073	0.032	0.087	0.015	0.011	
5/30/2019 18:29			0	0.193	0.074	0.032	0.084	0.015	0.012	
5/30/2019 18:30	12.1	103.2	0	0.193	0.074	0.032	0.068	0.015	0.012	42.43254;-76.49711
5/30/2019 18:31			0	0.193	0.074	0.033	0.073	0.015	0.012	
5/30/2019 18:32			0	0.193	0.074	0.033	0.081	0.015	0.012	
5/30/2019 18:33			0	0.193	0.075	0.033	0.076	0.015	0.012	
5/30/2019 18:34			0	0.193	0.075	0.033	0.078	0.015	0.012	
5/30/2019 18:35	12	111.3	0	0.193	0.075	0.033	0.073	0.015	0.012	42.43273;-76.49691
5/30/2019 18:36			0	0.193	0.075	0.033	0.075	0.015	0.012	
5/30/2019 18:37			0	0.193	0.075	0.034	0.072	0.015	0.012	
5/30/2019 18:38			0	0.193	0.074	0.034	0.067	0.015	0.021	
5/30/2019 18:39			0	0.193	0.074	0.034	0.071	0.015	0.016	
5/30/2019 18:40	12.1	103.2	0	0.193	0.074	0.034	0.073	0.015	0.02	42.43256;-76.49711
5/30/2019 18:41			0	0.193	0.074	0.034	0.074	0.016	0.056	
5/30/2019 18:42			0	0.193	0.073	0.034	0.061	0.016	0.062	
5/30/2019 18:43			0	0.193	0.073	0.034	0.066	0.016	0.029	
5/30/2019 18:44			0	0.193	0.072	0.035	0.074	0.016	0.011	
5/30/2019 18:45	12.1	100.2	0	0.193	0.071	0.035	0.068	0.016	0.011	42.43233;-76.49741
5/30/2019 18:46			0	0.193	0.071	0.035	0.077	0.016	0.01	
5/30/2019 18:47			0	0.193	0.071	0.035	0.075	0.016	0.011	
5/30/2019 18:48			0	0.193	0.071	0.035	0.069	0.016	0.011	
5/30/2019 18:49			0	0.193	0.07	0.035	0.066	0.016	0.011	
5/30/2019 18:50	12.1	106.3	0	0.193	0.07	0.035	0.06	0.016	0.066	42.43245;-76.49722
5/30/2019 18:51			0	0.193	0.069	0.036	0.068	0.016	0.024	
5/30/2019 18:52			0	0.193	0.069	0.036	0.065	0.016	0.014	
5/30/2019 18:53			0	0.193	0.068	0.036	0.072	0.016	0.013	
5/30/2019 18:54			0	0.193	0.068	0.036	0.076	0.016	0.013	
5/30/2019 18:55	12	106.3	0	0.193	0.068	0.036	0.068	0.016	0.012	42.43243;-76.49724
5/30/2019 18:56			0	0.193	0.069	0.036	0.068	0.016	0.012	
5/30/2019 18:57			0	0.193	0.068	0.036	0.07	0.016	0.011	
5/30/2019 18:58			0	0.193	0.068	0.037	0.063	0.016	0.012	
5/30/2019 18:59			0	0.193	0.068	0.037	0.064	0.016	0.011	
5/30/2019 19:00	12	107.3	0	0.193	0.067	0.037	0.062	0.016	0.011	42.43234;-76.49722
5/30/2019 19:01			0	0.193	0.067	0.037	0.067	0.016	0.011	
5/30/2019 19:02			0	0.193	0.067	0.037	0.058	0.016	0.011	
5/30/2019 19:03			0	0.193	0.066	0.037	0.062	0.016	0.012	
5/30/2019 19:04			0	0.193	0.065	0.037	0.062	0.016	0.011	
5/30/2019 19:05	12	101.2	0	0.193	0.064	0.037	0.05	0.016	0.011	42.4324;-76.49719
5/30/2019 19:06			0	0.193	0.064	0.038	0.048	0.016	0.011	
5/30/2019 19:07			0	0.193	0.063	0.038	0.06	0.016	0.012	
5/30/2019 19:08			0	0.193	0.062	0.038	0.058	0.016	0.012	
5/30/2019 19:09			0	0.193	0.061	0.038	0.065	0.017	0.011	
5/30/2019 19:10	12	100.2	0	0.193	0.06	0.038	0.058	0.017	0.012	
5/30/2019 19:11			0	0.193	0.059	0.038	0.059	0.017	0.011	
5/30/2019 19:12			0	0.193	0.059	0.038	0.055	0.017	0.013	
5/30/2019 19:13			0	0.193	0.059	0.038	0.054	0.017	0.139	
5/30/2019 19:14			0	0.193	0.058	0.039	0.048	0.017	0.025	
5/30/2019 19:15	12	109.3	0	0.193	0.057	0.039	0.049	0.017	0.014	42.43159;-76.49674
5/30/2019 19:16			0	0.193	0.057	0.039	0.054	0.017	0.013	
5/30/2019 19:17			0	0.193	0.056	0.039	0.05	0.017	0.012	
5/30/2019 19:18			0	0.193	0.056	0.039	0.06	0.017	0.012	
5/30/2019 19:19			0	0.193	0.056	0.039	0.061	0.017	0.011	
5/30/2019 19:20	12.1	91.1	0	0.193	0.056	0.039	0.058	0.017	0.011	
5/30/2019 19:21			0	0.193	0.056	0.039	0.056	0.017	0.029	
5/30/2019 19:22			0	0.193	0.056	0.039	0.058	0.017	0.019	
5/30/2019 19:23			0	0.193	0.056	0.04	0.054	0.017	0.015	
5/30/2019 19:24			0	0.193	0.056	0.04	0.051	0.017	0.012	
5/30/2019 19:25	12	105.3	0	0.193	0.056	0.04	0.055	0.017	0.012	42.43258;-76.49712
5/30/2019 19:26			0	0.193	0.056	0.04	0.067	0.017	0.013	
5/30/2019 19:27			0	0.193	0.056	0.04	0.069	0.017	0.012	
5/30/2019 19:28			0	0.193	0.056	0.04	0.073	0.017	0.012	
5/30/2019 19:29			0	0.193	0.057	0.04	0.062	0.017	0.013	
5/30/2019 19:30	12	111.3	0	0.193	0.058	0.04	0.054	0.017	0.012	42.43273;-76.49717
5/30/2019 19:31			0	0.193	0.058	0.041	0.06	0.017	0.012	
5/30/2019 19:32			0	0.193	0.059	0.041	0.063	0.017	0.012	
5/30/2019 19:33			0	0.193	0.06	0.041	0.054	0.017	0.012	
5/30/2019 19:34			0	0.193	0.059	0.041	0.051	0.017	0.013	
5/30/2019 19:35	12	102.2	0	0.193	0.059	0.041	0.052	0.018	0.012	42.43264;-76.49718
5/30/2019 19:36			0	0.193	0.059	0.041	0.056	0.018	0.013	
5/30/2019 19:37			0	0.193	0.059	0.041	0.054	0.018	0.012	
5/30/2019 19:38			0	0.193	0.058	0.041	0.056	0.018	0.012	
5/30/2019 19:39			0	0.193	0.058	0.042	0.059	0.018	0.013	
5/30/2019 19:40	12	101.2	0	0.193	0.058	0.042	0.06	0.018	0.018	42.43263;-76.49706
5/30/2019 19:41			0	0.193	0.058	0.042	0.053	0.018	0.013	
5/30/2019 19:42			0	0.193	0.058	0.042	0.051	0.018	0.014	
5/30/2019 19:43			0	0.193	0.057	0.042	0.056	0.018	0.013	
5/30/2019 19:44			0	0.193	0.056	0.042	0.058	0.018	0.013	
5/30/2019 19:45	12	109.3	0	0.193	0.055	0.042	0.061	0.018	0.013	42.43277;-76.49743
5/30/2019 19:46			0	0.193	0.054	0.042	0.053	0.018	0.013	
5/30/2019 19:47			0	0.193	0.053	0.042	0.049	0.018	0.013	
5/30/2019 19:48			0	0.193	0.053	0.042	0.043	0.018	0.017	
5/30/2019 19:49			0	0.193	0.052	0.043	0.057	0.018	0.013	
5/30/2019 19:50	12	99.2	0	0.193	0.052	0.043	0.059	0.018	0.013	42.4327;-76.49735
5/30/2019 19:51			0	0.193	0.053	0.043	0.053	0.018	0.013	
5/30/2019 19:52			0	0.193	0.053	0.043	0.057	0.018	0.055	
5/30/2019 19:53			0	0.193	0.053	0.043	0.059	0.018	0.014	
5/30/2019 19:54			0	0.193	0.054	0.043	0.052	0.018	0.012	
5/30/2019 19:55	12	106.3	0	0.193	0.054	0.043	0.046	0.018	0.012	42.43269;-76.49715
5/30/2019 19:56			0	0.193	0.053	0.043	0.049	0.018	0.013	
5/30/2019 19:57			0	0.193	0.053	0.044	0.059	0.018	0.012	
5/30/2019 19:58			0	0.193	0.053	0.044	0.052	0.018	0.012	
5/30/2019 19:59			0	0.193	0.053	0.044	0.059	0.018	0.012	
5/30/2019 20:00	12	107.3	0	0.193	0.053	0.044	0.055	0.018	0.012	42.43269;-76.49722
5/30/2019 20:01			0	0.193	0.053	0.044	0.048	0.018	0.012	
5/30/2019 20:02			0	0.193	0.053	0.044	0.046	0.018	0.012	
5/30/2019 20:03			0	0.193	0.053	0.044	0.057	0.018	0.012	
5/30/2019 20:04			0	0.193	0.052	0.044	0.044	0.018	0.012	
5/30/2019 20:05	11.9	102.2	0	0.193	0.052	0.044	0.06	0.018	0.012	42.43261;-76.49699
5/30/2019 20:06			0	0.193	0.051	0.044	0.045	0.018	0.157	
5/30/2019 20:07			0	0.193	0.051	0.045	0.047	0.018	0.025	
5/30/2019 20:08			0	0.193	0.05	0.045	0.057	0.018	0.014	
5/30/2019 20:09			0	0.193	0.05	0.045	0.057	0.018	0.012	
5/30/2019 20:10	12	105.3	0	0.193	0.05	0.045	0.058	0.018	0.014	42.43262;-76.49709
5/30/2019 20:11			0	0.193	0.05	0.045	0.052	0.018	0.013	
5/30/2019 20:12			0	0.193	0.05	0.045	0.053	0.018	0.013	
5/30/2019 20:13			0	0.193	0.051	0.045	0.044	0.018	0.013	
5/30/2019 20:14			0	0.193	0.051	0.045	0.054	0.018	0.013	

Community Air Monitoring Program - Downwind Station
May 15, 2019 to September 11, 2019

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/30/2019 20:15	11.9	102.2	0	0.193	0.05	0.045	0.064	0.018	0.016	42.43247;-76.49712
5/30/2019 20:16			0	0.193	0.051	0.046	0.049	0.018	0.027	
5/30/2019 20:17			0	0.193	0.052	0.046	0.072	0.018	0.015	
5/30/2019 20:18			0	0.193	0.053	0.046	0.061	0.018	0.014	
5/30/2019 20:19			0	0.193	0.054	0.046	0.058	0.018	0.014	
5/30/2019 20:20	11.9	102.2	0	0.193	0.054	0.046	0.061	0.018	0.013	42.43258;-76.49697
5/30/2019 20:21			0	0.193	0.054	0.046	0.059	0.018	0.015	
5/30/2019 20:22			0	0.193	0.055	0.046	0.054	0.018	0.013	
5/30/2019 20:23			0	0.193	0.055	0.046	0.058	0.018	0.016	
5/30/2019 20:24			0	0.193	0.055	0.046	0.051	0.018	0.012	
5/30/2019 20:25	11.9	112.4	0	0.193	0.055	0.047	0.061	0.018	0.015	42.43297;-76.49764
5/30/2019 20:26			0	0.193	0.055	0.047	0.065	0.018	0.026	
5/30/2019 20:27			0	0.193	0.056	0.047	0.052	0.018	0.084	
5/30/2019 20:28			0	0.193	0.056	0.047	0.055	0.018	0.043	
5/30/2019 20:29			0	0.193	0.056	0.047	0.056	0.018	0.099	
5/30/2019 20:30	11.9	101.2	0	0.193	0.056	0.047	0.055	0.018	0.069	42.4327;-76.4972
5/30/2019 20:31			0	0.193	0.056	0.047	0.058	0.018	0.038	
5/30/2019 20:32			0	0.193	0.056	0.047	0.058	0.018	0.021	
5/30/2019 20:33			0	0.193	0.056	0.048	0.054	0.018	0.014	
5/30/2019 20:34			0	0.193	0.055	0.048	0.043	0.018	0.013	
5/30/2019 20:35	11.9	104.3	0	0.193	0.055	0.048	0.069	0.018	0.05	
5/30/2019 20:36			0	0.193	0.055	0.048	0.06	0.018	0.095	
5/30/2019 20:37			0	0.193	0.055	0.048	0.06	0.018	0.015	
5/30/2019 20:38			0	0.193	0.056	0.048	0.068	0.018	0.013	
5/30/2019 20:39			0	0.193	0.056	0.048	0.059	0.018	0.014	
5/30/2019 20:40	11.9	101.2	0	0.193	0.057	0.048	0.064	0.018	0.013	42.43301;-76.4976
5/30/2019 20:41			0	0.193	0.056	0.049	0.063	0.018	0.013	
5/30/2019 20:42			0	0.193	0.056	0.049	0.054	0.018	0.012	
5/30/2019 20:43			0	0.193	0.056	0.049	0.047	0.018	0.012	
5/30/2019 20:44			0	0.193	0.056	0.049	0.064	0.018	0.013	
5/30/2019 20:45	11.9	101.2	0	0.193	0.056	0.049	0.046	0.018	0.013	42.43119;-76.49583
5/30/2019 20:46			0	0.193	0.056	0.049	0.049	0.018	0.014	
5/30/2019 20:47			0	0.193	0.055	0.049	0.052	0.018	0.013	
5/30/2019 20:48			0	0.193	0.055	0.049	0.048	0.018	0.012	
5/30/2019 20:49			0	0.193	0.055	0.049	0.055	0.018	0.012	
5/30/2019 20:50	11.9	102.2	0	0.193	0.055	0.049	0.051	0.018	0.013	42.43277;-76.49722
5/31/2019 12:07	12.7	116.4								
5/31/2019 12:08			0	0	0	0	0			
5/31/2019 12:09			0	0	0	0	0	0		
5/31/2019 12:10	12.6	98.2	0	0	0	0	0	0	0.045	
5/31/2019 12:11			0	0	0	0	0	0	0.049	
5/31/2019 12:12			0	0	0	0	0	0	0.047	
5/31/2019 12:13			0	0	0	0	0	0	0.045	
5/31/2019 12:14			0	0	0	0	0	0	0.045	
5/31/2019 12:15	12.6	97.2	0	0	0	0	0	0	0.045	
5/31/2019 12:16			0	0	0	0	0	0	0.043	
5/31/2019 12:17			0	0	0	0	0	0	0.042	
5/31/2019 12:18			0	0	0	0	0	0	0.041	
5/31/2019 12:19			0	0	0	0	0	0	0.04	
5/31/2019 12:20	12.6	96.2	0	0	0	0	0	0	0.04	
5/31/2019 12:21			0	0	0	0	0	0	0.041	
5/31/2019 12:22			0	0	0	0	0	0	0.041	
5/31/2019 12:23			0	0	0	0	0	0	0.04	
5/31/2019 12:24			0	0	0	0	0	0	0.04	
5/31/2019 12:25	12.6	107.3	0	0	0	0	0	0.001	0.039	
5/31/2019 12:25										42.43255;-76.49712
5/31/2019 12:26			0	0	0	0	0	0.001	0.039	
5/31/2019 12:27			0	0	0	0	0	0.002	0.039	
5/31/2019 12:28			0	0	0	0	0	0.002	0.039	
5/31/2019 12:29			0	0	0	0	0	0.002	0.04	
5/31/2019 12:30	12.6	100.2	0	0	0	0	0	0.002	0.041	
5/31/2019 12:30										42.43251;-76.49718
5/31/2019 12:31			0	0	0	0	0	0.002	0.039	
5/31/2019 12:32			0	0	0	0	0	0.002	0.04	
5/31/2019 12:33			0	0	0	0	0	0.002	0.042	
5/31/2019 12:34			0	0	0	0	0	0.002	0.043	
5/31/2019 12:35	12.5	97.2	0	0	0	0	0	0.002	0.042	
5/31/2019 12:35										42.43251;-76.49721
5/31/2019 12:36			0	0	0	0	0	0.002	0.04	
5/31/2019 12:37			0	0	0	0	0	0.002	0.042	
5/31/2019 12:38			0	0	0	0	0	0.003	0.041	
5/31/2019 12:39			0	0	0	0	0	0.003	0.04	
5/31/2019 12:40	12.5	121.5	0	0	0	0	0	0.003	0.041	
5/31/2019 12:40										42.43248;-76.49718
5/31/2019 12:41			0	0	0	0	0	0.003	0.041	
5/31/2019 12:42			0	0	0	0	0	0.003	0.04	
5/31/2019 12:43			0	0	0	0	0	0.003	0.04	
5/31/2019 12:44			0	0	0	0	0	0.003	0.04	
5/31/2019 12:45	12.6	97.2	0	0	0	0	0	0.003	0.04	
5/31/2019 12:45										42.43246;-76.49718
5/31/2019 12:46			0	0	0	0	0	0.003	0.04	
5/31/2019 12:47			0	0	0	0	0	0.003	0.04	
5/31/2019 12:48			0	0	0	0	0	0.003	0.045	
5/31/2019 12:49			0	0	0	0	0	0.003	0.041	
5/31/2019 12:50	12.6	98.2	0	0	0	0	0	0.004	0.04	
5/31/2019 12:50										42.43243;-76.49709
5/31/2019 12:51			0	0	0	0	0	0.004	0.042	
5/31/2019 12:52			0	0	0	0	0	0.004	0.045	
5/31/2019 12:53			0	0	0	0	0	0.004	0.053	
5/31/2019 12:54			0	0	0	0	0	0.004	0.043	
5/31/2019 12:55	12.6	99.2	0	0	0	0	0	0.004	0.054	
5/31/2019 12:55										42.43245;-76.49707
5/31/2019 12:56			0	0	0	0	0	0.004	0.048	
5/31/2019 12:57			0	0	0	0	0	0.004	0.042	
5/31/2019 12:58			0	0	0	0	0	0.004	0.041	
5/31/2019 12:59			0	0	0	0	0	0.004	0.041	
5/31/2019 13:00	12.6	100.2	0	0	0	0	0	0.004	0.041	
5/31/2019 13:00										42.43251;-76.49718
5/31/2019 13:01			0	0	0	0	0	0.005	0.041	
5/31/2019 13:02			0	0	0	0	0	0.005	0.041	
5/31/2019 13:03			0	0	0	0	0	0.005	0.041	
5/31/2019 13:04			0	0	0	0	0	0.005	0.04	
5/31/2019 13:05	12.6	101.2	0	0	0	0	0	0.005	0.04	
5/31/2019 13:05										42.43245;-76.49723
5/31/2019 13:06			0	0	0	0	0	0.005	0.04	
5/31/2019 13:07			0	0	0	0	0	0.005	0.041	
5/31/2019 13:08			0	0	0	0	0	0.005	0.041	
5/31/2019 13:09			0	0	0	0	0	0.005	0.041	
5/31/2019 13:10	12.5	102.2	0	0	0	0	0	0.005	0.041	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
5/31/2019 13:10										42.43246;-76.49708
5/31/2019 13:11			0	0	0	0	0	0.005	0.041	
5/31/2019 13:12			0	0	0	0	0	0.005	0.04	
5/31/2019 13:13			0	0	0	0	0	0.006	0.04	
5/31/2019 13:14			0	0	0	0	0	0.006	0.04	
5/31/2019 13:15	12.6	100.2	0	0	0	0	0	0.006	0.042	
5/31/2019 13:15										42.43255;-76.49715
5/31/2019 13:16			0	0	0	0	0	0.006	0.058	
5/31/2019 13:17			0	0	0	0	0	0.006	0.05	
5/31/2019 13:18			0	0	0	0	0	0.006	0.044	
5/31/2019 13:19			0	0	0	0	0	0.006	0.042	
5/31/2019 13:20	12.6	100.2	0	0	0	0	0	0.006	0.042	
5/31/2019 13:20										42.43252;-76.49712
5/31/2019 13:21			0	0	0	0	0	0.006	0.04	
5/31/2019 13:22			0	0	0	0	0	0.006	0.042	
5/31/2019 13:23			0	0	0	0	0	0.006	0.04	
5/31/2019 13:24			0	0	0	0	0	0.007	0.04	
5/31/2019 13:25	12.6	97.2	0	0	0	0	0	0.007	0.039	
5/31/2019 13:25										42.43251;-76.4972
5/31/2019 13:26			0	0	0	0	0	0.007	0.039	
5/31/2019 13:27			0	0	0	0	0	0.007	0.038	
5/31/2019 13:28			0	0	0	0	0	0.007	0.039	
5/31/2019 13:29			0	0	0	0	0	0.007	0.041	
5/31/2019 13:30	12.5	98.2	0	0	0	0	0	0.007	0.052	
5/31/2019 13:30										42.43247;-76.49725
5/31/2019 13:31			0	0	0	0	0	0.007	0.039	
5/31/2019 13:32			0	0	0	0	0	0.007	0.039	
5/31/2019 13:33			0	0	0	0	0	0.007	0.038	
5/31/2019 13:34			0	0	0	0	0	0.007	0.037	
5/31/2019 13:35	12.5	102.2	0	0	0	0	0	0.007	0.038	
5/31/2019 13:35										42.43246;-76.49725
5/31/2019 13:36			0	0	0	0	0	0.008	0.039	
5/31/2019 13:37			0	0	0	0	0	0.008	0.037	
5/31/2019 13:38			0	0	0	0	0	0.008	0.037	
5/31/2019 13:39			0	0	0	0	0	0.008	0.037	
5/31/2019 13:40	12.5	99.2	0	0	0	0	0	0.008	0.037	
5/31/2019 13:40										42.4325;-76.49718
5/31/2019 13:41			0	0	0	0	0	0.008	0.036	
5/31/2019 13:42			0	0	0	0	0	0.008	0.036	
5/31/2019 13:43			0	0	0	0	0	0.008	0.037	
5/31/2019 13:44			0	0	0	0	0	0.008	0.036	
5/31/2019 13:45	12.5	101.2	0	0	0	0	0	0.008	0.036	
5/31/2019 13:45										42.4325;-76.4971
5/31/2019 13:46			0	0	0	0	0	0.008	0.036	
5/31/2019 13:47			0	0	0	0	0	0.008	0.036	
5/31/2019 13:48			0	0	0	0	0	0.008	0.037	
5/31/2019 13:49			0	0	0	0	0	0.009	0.036	
5/31/2019 13:50	12.5	108.3	0	0	0	0	0	0.009	0.037	
5/31/2019 13:50										42.43245;-76.49719
5/31/2019 13:51			0	0	0	0	0	0.009	0.038	
5/31/2019 13:52			0	0	0	0	0	0.009	0.04	
5/31/2019 13:53			0	0	0	0	0	0.009	0.036	
5/31/2019 13:54			0	0	0	0	0	0.009	0.041	
5/31/2019 13:55	12.5	98.2	0	0	0	0	0	0.009	0.045	
5/31/2019 13:55										42.4325;-76.49707
5/31/2019 13:56			0	0	0	0	0	0.009	0.038	
5/31/2019 13:57			0	0	0	0	0	0.009	0.04	
5/31/2019 13:58			0	0	0	0	0	0.009	0.047	
5/31/2019 13:59			0	0	0	0	0	0.009	0.037	
5/31/2019 14:00	12.5	98.2	0	0	0	0	0	0.009	0.037	
5/31/2019 14:00										42.43255;-76.49698
5/31/2019 14:01			0	0	0	0	0	0.01	0.038	
5/31/2019 14:02			0	0	0	0	0	0.01	0.036	
5/31/2019 14:03			0	0	0	0	0	0.01	0.036	
5/31/2019 14:04			0	0	0	0	0	0.01	0.037	
5/31/2019 14:05	12.5	113.4	0	0	0	0	0	0.01	0.037	
5/31/2019 14:05										42.43259;-76.49693
5/31/2019 14:06			0	0	0	0	0	0.01	0.036	
5/31/2019 14:07			0	0	0	0	0	0.01	0.037	
5/31/2019 14:08			0	0	0	0	0	0.01	0.036	
5/31/2019 14:09			0	0	0	0	0	0.01	0.036	
5/31/2019 14:10	12.5	100.2	0	0	0	0	0	0.01	0.036	
5/31/2019 14:10										42.43262;-76.49683
5/31/2019 14:11			0	0	0	0	0	0.01	0.036	
5/31/2019 14:12			0	0	0	0	0	0.01	0.036	
5/31/2019 14:13			0	0	0	0	0	0.01	0.036	
5/31/2019 14:14			0	0	0	0	0	0.011	0.036	
5/31/2019 14:15	12.5	97.2	0	0	0	0	0	0.011	0.038	
5/31/2019 14:15										42.43258;-76.49699
5/31/2019 14:16			0	0	0	0	0	0.011	0.05	
5/31/2019 14:17			0	0	0	0	0	0.011	0.039	
5/31/2019 14:18			0	0	0	0	0	0.011	0.038	
5/31/2019 14:19			0	0	0	0	0	0.011	0.036	
5/31/2019 14:20	12.5	102.2	0	0	0	0	0	0.011	0.037	
5/31/2019 14:20										42.43255;-76.49697
5/31/2019 14:21			0	0	0	0	0	0.011	0.036	
5/31/2019 14:22			0	0	0	0	0	0.011	0.036	
5/31/2019 14:23			0	0	0	0	0	0.011	0.042	
5/31/2019 14:24			0	0	0	0	0	0.011	0.037	
5/31/2019 14:25	12.5	97.2	0	0	0	0	0	0.011	0.036	
5/31/2019 14:25										42.43265;-76.49692
5/31/2019 14:26			0	0	0	0	0	0.011	0.036	
5/31/2019 14:27			0	0	0	0	0	0.012	0.037	
5/31/2019 14:28			0	0	0	0	0	0.012	0.036	
5/31/2019 14:29			0	0	0	0	0	0.012	0.036	
5/31/2019 14:30	12.5	107.3	0	0	0	0	0	0.012	0.039	
5/31/2019 14:30										42.43252;-76.49701
5/31/2019 14:31			0	0	0	0	0	0.012	0.039	
5/31/2019 14:32			0	0	0	0	0	0.012	0.037	
5/31/2019 14:33			0	0	0	0	0	0.012	0.037	
5/31/2019 14:34			0	0	0	0	0	0.012	0.037	
5/31/2019 14:35	12.5	98.2	0	0	0	0	0	0.012	0.037	
5/31/2019 14:35										42.43256;-76.49692
5/31/2019 14:36			0	0	0	0	0	0.012	0.038	
5/31/2019 14:37			0	0	0	0	0	0.012	0.036	
5/31/2019 14:38			0	0	0	0	0	0.012	0.036	
5/31/2019 14:39			0	0	0	0	0	0.012	0.037	
5/31/2019 14:40	12.5	98.2	0	0	0	0	0	0.013	0.041	
5/31/2019 14:40										42.43264;-76.49696

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/31/2019 14:41			0	0	0	0	0	0.013	0.037	
5/31/2019 14:42			0	0	0	0	0	0.013	0.037	
5/31/2019 14:43			0	0	0	0	0	0.013	0.037	
5/31/2019 14:44			0	0	0	0	0	0.013	0.037	
5/31/2019 14:45	12.5	98.2	0	0	0	0	0	0.013	0.037	
5/31/2019 14:45										42.43261;-76.497
5/31/2019 14:46			0	0	0	0	0	0.013	0.041	
5/31/2019 14:47			0	0	0	0	0	0.013	0.037	
5/31/2019 14:48			0	0	0	0	0	0.013	0.037	
5/31/2019 14:49			0	0	0	0	0	0.013	0.037	
5/31/2019 14:50	12.5	100.2	0	0	0	0	0	0.013	0.038	
5/31/2019 14:50										42.43258;-76.49709
5/31/2019 14:51			0	0	0	0	0	0.013	0.04	
5/31/2019 14:52			0	0	0	0	0	0.013	0.037	
5/31/2019 14:53			0	0	0	0	0	0.014	0.036	
5/31/2019 14:54			0	0	0	0	0	0.014	0.037	
5/31/2019 14:55	12.5	98.2	0	0	0	0	0	0.014	0.035	
5/31/2019 14:55										42.43256;-76.49715
5/31/2019 14:56			0	0	0	0	0	0.014	0.035	
5/31/2019 14:57			0	0	0	0	0	0.014	0.036	
5/31/2019 14:58			0	0	0	0	0	0.014	0.034	
5/31/2019 14:59			0	0	0	0	0	0.014	0.035	
5/31/2019 15:00	12.5	109.3	0	0	0	0	0	0.014	0.035	
5/31/2019 15:00										42.43249;-76.49706
5/31/2019 15:01			0	0	0	0	0	0.014	0.046	
5/31/2019 15:02			0	0	0	0	0	0.014	0.037	
5/31/2019 15:03			0	0	0	0	0	0.014	0.035	
5/31/2019 15:04			0	0	0	0	0	0.014	0.035	
5/31/2019 15:05	12.5	97.2	0	0	0	0	0	0.014	0.036	
5/31/2019 15:05										42.43256;-76.49702
5/31/2019 15:06			0	0	0	0	0	0.015	0.036	
5/31/2019 15:07			0	0	0	0	0	0.015	0.042	
5/31/2019 15:08			0	0	0	0	0	0.015	0.038	
5/31/2019 15:09			0	0	0	0	0	0.015	0.039	
5/31/2019 15:10	12.4	107.3	0	0	0	0	0	0.015	0.037	
5/31/2019 15:10										42.43258;-76.49701
5/31/2019 15:11			0	0	0	0	0	0.015	0.039	
5/31/2019 15:12			0	0	0	0	0	0.015	0.034	
5/31/2019 15:13			0	0	0	0	0	0.015	0.035	
5/31/2019 15:14			0	0	0	0	0	0.015	0.034	
5/31/2019 15:15	12.4	101.2	0	0	0	0	0	0.015	0.035	
5/31/2019 15:15										42.43255;-76.49701
5/31/2019 15:16			0	0	0	0	0	0.015	0.038	
5/31/2019 15:17			0	0	0	0	0	0.015	0.035	
5/31/2019 15:18			0	0	0	0	0	0.015	0.035	
5/31/2019 15:19			0	0	0	0	0	0.016	0.035	
5/31/2019 15:20	12.4	112.4	0	0.004	0	0	0	0.016	0.036	
5/31/2019 15:20										42.4324;-76.49721
5/31/2019 15:21			0	0.004	0	0	0	0.016	0.036	
5/31/2019 15:22			0	0.004	0	0	0	0.016	0.035	
5/31/2019 15:23			0	0.006	0	0	0	0.016	0.035	
5/31/2019 15:24			0	0.006	0	0	0	0.016	0.035	
5/31/2019 15:25	12.4	98.2	0	0.006	0	0	0	0.016	0.034	
5/31/2019 15:25										42.43242;-76.49715
5/31/2019 15:26			0	0.007	0	0	0	0.016	0.033	
5/31/2019 15:27			0	0.007	0	0	0	0.016	0.034	
5/31/2019 15:28			0	0.008	0	0	0.001	0.016	0.034	
5/31/2019 15:29			0	0.008	0	0	0.001	0.016	0.034	
5/31/2019 15:30	12.4	101.2	0	0.008	0	0	0.001	0.016	0.034	
5/31/2019 15:30										42.43251;-76.49712
5/31/2019 15:31			0	0.008	0	0	0	0.016	0.033	
5/31/2019 15:32			0	0.015	0	0	0.011	0.016	0.034	
5/31/2019 15:33			0	0.029	0	0	0.024	0.017	0.035	
5/31/2019 15:34			0	0.029	0.001	0	0	0.017	0.035	
5/31/2019 15:35	12.4	101.2	0	0.029	0.001	0	0	0.017	0.035	
5/31/2019 15:35										42.43254;-76.49702
5/31/2019 15:36			0	0.029	0.001	0	0.003	0.017	0.034	
5/31/2019 15:37			0	0.029	0.001	0	0	0.017	0.035	
5/31/2019 15:38			0	0.029	0.002	0	0	0.017	0.035	
5/31/2019 15:39			0	0.029	0.002	0	0.002	0.017	0.035	
5/31/2019 15:40	12.4	104.3	0	0.029	0.002	0	0.005	0.017	0.035	
5/31/2019 15:40										42.4325;-76.49702
5/31/2019 15:41			0	0.029	0.003	0	0.008	0.017	0.035	
5/31/2019 15:42			0	0.029	0.003	0	0.004	0.017	0.034	
5/31/2019 15:43			0	0.029	0.003	0	0	0.017	0.035	
5/31/2019 15:44			0	0.029	0.003	0	0.002	0.017	0.035	
5/31/2019 15:45	12.4	98.2	0	0.029	0.004	0	0.014	0.017	0.034	
5/31/2019 15:45										42.43257;-76.49702
5/31/2019 15:46			0	0.029	0.004	0	0.024	0.017	0.034	
5/31/2019 15:47			0	0.029	0.005	0	0.004	0.018	0.034	
5/31/2019 15:48			0	0.029	0.006	0	0.007	0.018	0.034	
5/31/2019 15:49			0	0.029	0.005	0	0.011	0.018	0.034	
5/31/2019 15:50	12.4	102.2	0	0.029	0.006	0	0.02	0.018	0.035	
5/31/2019 15:50										42.43256;-76.4971
5/31/2019 15:51			0	0.033	0.007	0	0.013	0.018	0.035	
5/31/2019 15:52			0	0.033	0.008	0	0.013	0.018	0.036	
5/31/2019 15:53			0	0.033	0.009	0	0.011	0.018	0.035	
5/31/2019 15:54			0	0.033	0.01	0	0.012	0.018	0.035	
5/31/2019 15:55	12.4	108.3	0	0.033	0.01	0	0.015	0.018	0.035	
5/31/2019 15:55										42.43246;-76.49709
5/31/2019 15:56			0	0.033	0.01	0	0.011	0.018	0.035	
5/31/2019 15:57			0	0.033	0.011	0	0.011	0.018	0.035	
5/31/2019 15:58			0	0.033	0.011	0	0.023	0.018	0.036	
5/31/2019 15:59			0	0.033	0.013	0	0.016	0.018	0.038	
5/31/2019 16:00	12.4	103.2	0	0.033	0.013	0	0.009	0.019	0.06	
5/31/2019 16:00										42.43246;-76.4972
5/31/2019 16:01			0	0.042	0.014	0	0.033	0.019	0.036	
5/31/2019 16:02			0	0.042	0.014	0	0.013	0.019	0.035	
5/31/2019 16:03			0	0.042	0.014	0	0.028	0.019	0.034	
5/31/2019 16:04			0	0.042	0.015	0	0.023	0.019	0.035	
5/31/2019 16:05	12.4	100.2	0	0.042	0.015	0	0.016	0.019	0.034	
5/31/2019 16:05										42.43249;-76.4972
5/31/2019 16:06			0	0.042	0.015	0	0.025	0.019	0.033	
5/31/2019 16:07			0	0.042	0.016	0	0.018	0.019	0.034	
5/31/2019 16:08			0	0.042	0.016	0	0.02	0.019	0.033	
5/31/2019 16:09			0	0.042	0.017	0	0.025	0.019	0.034	
5/31/2019 16:10	12.4	99.2	0	0.042	0.017	0	0.022	0.019	0.033	
5/31/2019 16:10										42.43234;-76.49738
5/31/2019 16:11			0	0.042	0.018	0.001	0.014	0.019	0.035	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
5/31/2019 16:12			0	0.042	0.019	0.001	0.026	0.019	0.034	
5/31/2019 16:13			0	0.042	0.019	0.001	0.027	0.019	0.034	
5/31/2019 16:14			0	0.042	0.019	0.001	0.026	0.02	0.034	
5/31/2019 16:15	12.4	108.3	0	0.042	0.02	0.001	0.034	0.02	0.036	
5/31/2019 16:15										42.43245;-76.49725
5/31/2019 16:16			0	0.042	0.02	0.001	0.028	0.02	0.034	
5/31/2019 16:17			0	0.042	0.02	0.001	0.013	0.02	0.033	
5/31/2019 16:18			0	0.042	0.021	0.001	0.03	0.02	0.034	
5/31/2019 16:19			0	0.043	0.022	0.001	0.043	0.02	0.076	
5/31/2019 16:20	12.4	98.2	0	0.047	0.022	0.001	0.02	0.02	0.041	
5/31/2019 16:20										42.4323;-76.49738
5/31/2019 16:21			0	0.047	0.023	0.001	0.026	0.02	0.034	
5/31/2019 16:22			0	0.047	0.023	0.001	0.024	0.02	0.034	
5/31/2019 16:23			0	0.048	0.024	0.001	0.041	0.02	0.033	
5/31/2019 16:24			0	0.048	0.024	0.001	0.016	0.02	0.034	
5/31/2019 16:25	12.4	100.2	0	0.048	0.025	0.001	0.03	0.02	0.035	
5/31/2019 16:25										42.43236;-76.49724
5/31/2019 16:26			0	0.048	0.025	0.001	0.016	0.021	0.035	
5/31/2019 16:27			0	0.048	0.026	0.001	0.038	0.021	0.033	
5/31/2019 16:28			0	0.048	0.026	0.001	0.045	0.021	0.033	
5/31/2019 16:29			0	0.048	0.027	0.002	0.032	0.021	0.034	
5/31/2019 16:30	12.4	100.2	0	0.048	0.028	0.002	0.028	0.021	0.039	
5/31/2019 16:30										42.43236;-76.49729
5/31/2019 16:31			0	0.048	0.029	0.002	0.031	0.021	0.039	
5/31/2019 16:32			0	0.057	0.029	0.002	0.04	0.021	0.033	
5/31/2019 16:33			0	0.057	0.03	0.002	0.039	0.021	0.033	
5/31/2019 16:34			0	0.058	0.031	0.002	0.044	0.021	0.032	
5/31/2019 16:35	12.4	99.2	0	0.058	0.032	0.002	0.043	0.021	0.031	
5/31/2019 16:35										42.43249;-76.49719
5/31/2019 16:36			0	0.058	0.033	0.002	0.046	0.021	0.032	
5/31/2019 16:37			0	0.058	0.034	0.002	0.039	0.021	0.031	
5/31/2019 16:38			0	0.058	0.034	0.002	0.035	0.021	0.031	
5/31/2019 16:39			0	0.058	0.035	0.002	0.04	0.021	0.032	
5/31/2019 16:40	12.3	99.2	0	0.058	0.036	0.002	0.042	0.021	0.031	
5/31/2019 16:40										42.4324;-76.49725
5/31/2019 16:41			0	0.065	0.037	0.002	0.065	0.022	0.032	
5/31/2019 16:42			0	0.069	0.038	0.003	0.059	0.022	0.032	
5/31/2019 16:43			0	0.069	0.04	0.003	0.056	0.022	0.032	
5/31/2019 16:44			0	0.069	0.04	0.003	0.041	0.022	0.033	
5/31/2019 16:45	12.4	104.3	0	0.069	0.041	0.003	0.04	0.022	0.031	
5/31/2019 16:45										42.4324;-76.49727
5/31/2019 16:46			0	0.069	0.041	0.003	0.054	0.022	0.032	
5/31/2019 16:47			0	0.069	0.042	0.003	0.054	0.022	0.032	
5/31/2019 16:48			0	0.069	0.043	0.003	0.054	0.022	0.031	
5/31/2019 16:49			0	0.069	0.044	0.003	0.05	0.022	0.032	
5/31/2019 16:50	12.3	104.3	0	0.069	0.044	0.003	0.053	0.022	0.031	
5/31/2019 16:50										42.43247;-76.49712
5/31/2019 16:51			0	0.069	0.045	0.003	0.06	0.022	0.031	
5/31/2019 16:52			0	0.069	0.046	0.004	0.049	0.022	0.032	
5/31/2019 16:53			0	0.074	0.047	0.004	0.049	0.022	0.031	
5/31/2019 16:54			0	0.074	0.048	0.004	0.056	0.022	0.031	
5/31/2019 16:55	12.3	98.2	0	0.074	0.049	0.004	0.064	0.022	0.032	
5/31/2019 16:55										42.43256;-76.49693
5/31/2019 16:56			0	0.074	0.05	0.004	0.054	0.023	0.037	
5/31/2019 16:57			0	0.078	0.051	0.004	0.063	0.023	0.034	
5/31/2019 16:58			0	0.078	0.052	0.004	0.066	0.023	0.031	
5/31/2019 16:59			0	0.081	0.053	0.004	0.064	0.023	0.043	
5/31/2019 17:00	12.3	97.2	0	0.081	0.055	0.005	0.057	0.023	0.034	
5/31/2019 17:00										42.43234;-76.49701
5/31/2019 17:01			0	0.081	0.056	0.005	0.057	0.023	0.032	
5/31/2019 17:02			0	0.081	0.057	0.005	0.064	0.023	0.032	
5/31/2019 17:03			0	0.081	0.057	0.005	0.067	0.023	0.031	
5/31/2019 17:04			0	0.081	0.058	0.005	0.068	0.023	0.031	
5/31/2019 17:05	12.3	101.2	0	0.089	0.059	0.005	0.057	0.023	0.031	
5/31/2019 17:05										42.43258;-76.49708
5/31/2019 17:06			0	0.089	0.06	0.005	0.07	0.023	0.032	
5/31/2019 17:07			0	0.089	0.061	0.006	0.088	0.023	0.031	
5/31/2019 17:08			0	0.089	0.062	0.006	0.07	0.023	0.032	
5/31/2019 17:09			0	0.089	0.062	0.006	0.062	0.023	0.031	
5/31/2019 17:10	12.3	99.2	0	0.089	0.063	0.006	0.078	0.023	0.031	
5/31/2019 17:10										42.43252;-76.49682
5/31/2019 17:11			0	0.092	0.064	0.006	0.071	0.024	0.032	
6/3/2019 13:56	12.4	122.5								
6/3/2019 13:57			0	0.063	0	0	0.011			
6/3/2019 13:58			0	0.063	0	0	0.033	0	0.006	
6/3/2019 13:59			0	0.063	0	0	0.022	0	0.005	
6/3/2019 14:00	12.3	101.2	0	0.063	0	0	0.022	0	0.003	42.43264;-76.49685
6/3/2019 14:01			0	0.063	0	0	0.027	0	0.003	
6/3/2019 14:02			0	0.063	0	0	0.018	0	0.002	
6/3/2019 14:03			0	0.063	0	0	0.032	0	0.002	
6/3/2019 14:04			0	0.066	0	0	0.049	0	0.002	
6/3/2019 14:05	12.3	99.2	0	0.066	0	0	0.059	0	0.003	42.43261;-76.49683
6/3/2019 14:06			0	0.074	0	0	0.049	0	0.003	
6/3/2019 14:07			0	0.074	0	0	0.05	0	0.003	
6/3/2019 14:08			0	0.074	0	0	0.045	0	0.003	
6/3/2019 14:09			0	0.074	0	0	0.036	0	0.003	
6/3/2019 14:10	12.3	98.2	0	0.074	0	0	0.052	0	0.004	
6/3/2019 14:10										42.43263;-76.49689
6/3/2019 14:11			0	0.074	0.031	0	0.038	0	0.003	
6/3/2019 14:12			0	0.074	0.032	0.001	0.039	0	0.003	
6/3/2019 14:13			0	0.074	0.033	0.001	0.038	0	0.003	
6/3/2019 14:14			0	0.074	0.033	0.001	0.06	0	0.003	
6/3/2019 14:15	12.3	100.2	0	0.074	0.034	0.001	0.041	0	0.003	
6/3/2019 14:15										42.43257;-76.49699
6/3/2019 14:16			0	0.074	0.035	0.001	0.049	0	0.004	
6/3/2019 14:17			0	0.074	0.036	0.001	0.041	0	0.004	
6/3/2019 14:18			0	0.074	0.036	0.001	0.047	0	0.004	
6/3/2019 14:19			0	0.074	0.037	0.001	0.047	0	0.003	
6/3/2019 14:20	12.3	113.4	0	0.074	0.037	0.001	0.046	0	0.003	
6/3/2019 14:20										42.43259;-76.49686
6/3/2019 14:21			0	0.074	0.038	0.001	0.064	0	0.004	
6/3/2019 14:22			0	0.078	0.039	0.001	0.06	0	0.003	
6/3/2019 14:23			0	0.078	0.04	0.002	0.067	0	0.004	
6/3/2019 14:24			0	0.079	0.042	0.002	0.079	0	0.003	
6/3/2019 14:25	12.3	106.3	0	0.079	0.043	0.002	0.065	0	0.003	
6/3/2019 14:25										42.43268;-76.49696
6/3/2019 14:26			0	0.079	0.045	0.002	0.054	0	0.003	
6/3/2019 14:27			0	0.079	0.046	0.002	0.066	0	0.003	
6/3/2019 14:28			0	0.079	0.048	0.002	0.057	0	0.006	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/3/2019 14:29			0	0.079	0.05	0.002	0.058	0	0.003	
6/3/2019 14:30	12.3	98.2	0	0.079	0.052	0.002	0.059	0	0.003	
6/3/2019 14:30										42.43266;-76.49693
6/3/2019 14:31			0	0.079	0.053	0.003	0.063	0	0.003	
6/3/2019 14:32			0	0.079	0.055	0.003	0.056	0	0.004	
6/3/2019 14:33			0	0.079	0.056	0.003	0.074	0	0.003	
6/3/2019 14:34			0	0.079	0.057	0.003	0.069	0	0.004	
6/3/2019 14:35	12.3	100.2	0	0.082	0.059	0.003	0.068	0	0.004	
6/3/2019 14:35										42.43262;-76.49699
6/3/2019 14:36			0	0.085	0.06	0.003	0.069	0	0.008	
6/3/2019 14:37			0	0.086	0.062	0.003	0.072	0	0.003	
6/3/2019 14:38			0	0.086	0.063	0.004	0.069	0	0.003	
6/3/2019 14:39			0	0.086	0.063	0.004	0.071	0	0.009	
6/3/2019 14:40	12.3	106.3	0	0.086	0.064	0.004	0.07	0	0.004	
6/3/2019 14:40										42.43256;-76.49712
6/3/2019 14:41			0	0.094	0.065	0.004	0.087	0	0.005	
6/3/2019 14:42			0	0.094	0.067	0.004	0.06	0	0.004	
6/3/2019 14:43			0	0.094	0.068	0.004	0.081	0	0.008	
6/3/2019 14:44			0	0.094	0.068	0.004	0.086	0	0.007	
6/3/2019 14:45	12.3	97.2	0	0.1	0.069	0.005	0.084	0	0.005	
6/3/2019 14:45										42.43257;-76.4971
6/3/2019 14:46			0	0.1	0.07	0.005	0.082	0	0.012	
6/3/2019 14:47			0	0.1	0.072	0.005	0.092	0	0.005	
6/3/2019 14:48			0	0.1	0.073	0.005	0.078	0	0.004	
6/3/2019 14:49			0	0.1	0.074	0.005	0.088	0	0.005	
6/3/2019 14:50	12.3	98.2	0	0.1	0.076	0.005	0.091	0	0.004	
6/3/2019 14:50										42.43256;-76.49704
6/3/2019 14:51			0	0.1	0.077	0.006	0.087	0	0.004	
6/3/2019 14:52			0	0.1	0.078	0.006	0.08	0	0.007	
6/3/2019 14:53			0	0.1	0.079	0.006	0.085	0	0.004	
6/3/2019 14:54			0	0.102	0.08	0.006	0.095	0	0.004	
6/3/2019 14:55	12.3	97.2	0	0.102	0.082	0.006	0.083	0	0.005	
6/3/2019 14:55										42.43254;-76.49712
6/3/2019 14:56			0	0.102	0.083	0.007	0.098	0	0.005	
6/3/2019 14:57			0	0.102	0.083	0.007	0.089	0.001	0.014	
6/3/2019 14:58			0	0.105	0.085	0.007	0.096	0.001	0.005	
6/3/2019 14:59			0	0.106	0.086	0.007	0.102	0.001	0.006	
6/3/2019 15:00	12.3	101.2	0	0.106	0.087	0.007	0.095	0.001	0.005	
6/3/2019 15:00										42.43257;-76.49714
6/3/2019 15:01			0	0.106	0.088	0.008	0.091	0.001	0.006	
6/3/2019 15:02			0	0.106	0.088	0.008	0.094	0.001	0.004	
6/3/2019 15:03			0	0.106	0.089	0.008	0.1	0.001	0.006	
6/3/2019 15:04			0	0.106	0.09	0.008	0.098	0.001	0.004	
6/3/2019 15:05	12.3	99.2	0	0.106	0.091	0.008	0.104	0.001	0.004	
6/3/2019 15:05										42.43253;-76.49712
6/3/2019 15:06			0	0.117	0.091	0.008	0.101	0.001	0.005	
6/3/2019 15:07			0	0.117	0.092	0.009	0.098	0.001	0.005	
6/3/2019 15:08			0	0.117	0.092	0.009	0.093	0.001	0.006	
6/3/2019 15:09			0	0.117	0.093	0.009	0.101	0.001	0.005	
6/3/2019 15:10	12.3	104.3	0	0.117	0.093	0.009	0.107	0.001	0.005	
6/3/2019 15:10										42.43248;-76.49711
6/3/2019 15:11			0	0.117	0.094	0.01	0.095	0.001	0.01	
6/3/2019 15:12			0	0.117	0.095	0.01	0.097	0.001	0.005	
6/3/2019 15:13			0	0.117	0.095	0.01	0.09	0.001	0.005	
6/3/2019 15:14			0	0.118	0.096	0.01	0.105	0.001	0.004	
6/3/2019 15:15	12.3	98.2	0	0.118	0.096	0.01	0.093	0.001	0.006	
6/3/2019 15:15										42.43253;-76.49711
6/3/2019 15:16			0	0.12	0.097	0.011	0.107	0.001	0.006	
6/3/2019 15:17			0	0.121	0.098	0.011	0.112	0.001	0.005	
6/3/2019 15:18			0	0.122	0.1	0.011	0.116	0.001	0.005	
6/3/2019 15:19			0	0.122	0.101	0.011	0.111	0.001	0.005	
6/3/2019 15:20	12.3	98.2	0	0.123	0.102	0.011	0.107	0.001	0.005	
6/3/2019 15:20										42.43252;-76.49704
6/3/2019 15:21			0	0.123	0.103	0.012	0.113	0.001	0.005	
6/3/2019 15:22			0	0.123	0.104	0.012	0.109	0.001	0.005	
6/3/2019 15:23			0	0.123	0.105	0.012	0.109	0.001	0.005	
6/3/2019 15:24			0	0.124	0.106	0.012	0.119	0.001	0.006	
6/3/2019 15:25	12.3	107.3	0	0.124	0.107	0.013	0.113	0.001	0.005	
6/3/2019 15:25										42.43254;-76.49706
6/3/2019 15:26			0	0.126	0.107	0.013	0.117	0.001	0.005	
6/3/2019 15:27			0	0.126	0.108	0.013	0.112	0.001	0.004	
6/3/2019 15:28			0	0.126	0.109	0.013	0.113	0.001	0.005	
6/3/2019 15:29			0	0.126	0.11	0.014	0.126	0.001	0.005	
6/3/2019 15:30	12.3	114.4	0	0.126	0.111	0.014	0.113	0.001	0.005	
6/3/2019 15:30										42.43257;-76.49713
6/3/2019 15:31			0	0.13	0.112	0.014	0.122	0.001	0.005	
6/3/2019 15:32			0	0.132	0.113	0.014	0.127	0.001	0.006	
6/3/2019 15:33			0	0.144	0.113	0.015	0.128	0.001	0.005	
6/3/2019 15:34			0	0.144	0.114	0.015	0.115	0.001	0.005	
6/3/2019 15:35	12.3	97.2	0	0.144	0.115	0.015	0.121	0.001	0.005	
6/3/2019 15:35										42.43253;-76.49704
6/3/2019 15:36			0	0.144	0.115	0.015	0.12	0.001	0.004	
6/3/2019 15:37			0	0.173	0.116	0.016	0.124	0.001	0.007	
6/3/2019 15:38			0	0.173	0.117	0.016	0.124	0.001	0.005	
6/3/2019 15:39			0	0.173	0.118	0.016	0.123	0.001	0.005	
6/3/2019 15:40	12.3	102.2	0	0.173	0.118	0.016	0.118	0.001	0.004	
6/3/2019 15:40										42.43254;-76.49715
6/3/2019 15:41			0	0.173	0.119	0.017	0.119	0.001	0.006	
6/3/2019 15:42			0	0.173	0.119	0.017	0.134	0.001	0.004	
6/3/2019 15:43			0	0.173	0.12	0.017	0.115	0.001	0.005	
6/3/2019 15:44			0	0.173	0.121	0.017	0.111	0.001	0.004	
6/3/2019 15:45	12.3	104.3	0	0.173	0.121	0.018	0.111	0.001	0.006	
6/3/2019 15:45										42.43254;-76.49721
6/3/2019 15:46			0	0.173	0.12	0.018	0.113	0.001	0.006	
6/3/2019 15:47			0	0.173	0.12	0.018	0.128	0.001	0.005	
6/3/2019 15:48			0	0.173	0.12	0.018	0.118	0.001	0.004	
6/3/2019 15:49			0	0.173	0.12	0.019	0.124	0.001	0.004	
6/3/2019 15:50	12.3	101.2	0	0.173	0.12	0.019	0.121	0.001	0.004	
6/3/2019 15:50										42.43245;-76.49722
6/3/2019 15:51			0	0.173	0.12	0.019	0.112	0.001	0.006	
6/3/2019 15:52			0	0.173	0.12	0.019	0.12	0.001	0.005	
6/3/2019 15:53			0	0.173	0.119	0.02	0.121	0.001	0.005	
6/3/2019 15:54			0	0.173	0.119	0.02	0.119	0.001	0.004	
6/3/2019 15:55	12.3	97.2	0	0.173	0.119	0.02	0.127	0.001	0.004	
6/3/2019 15:55										42.43248;-76.4972
6/3/2019 15:56			0	0.173	0.119	0.02	0.128	0.001	0.004	
6/3/2019 15:57			0	0.173	0.12	0.021	0.125	0.001	0.004	
6/3/2019 15:58			0	0.173	0.119	0.021	0.126	0.001	0.005	
6/3/2019 15:59			0	0.173	0.12	0.021	0.135	0.001	0.004	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/3/2019 16:00	12.3	119.4	0	0.173	0.121	0.021	0.122	0.001	0.004	
6/3/2019 16:00										42.43249;-76.4973
6/3/2019 16:01			0	0.173	0.122	0.022	0.123	0.001	0.005	
6/3/2019 16:02			0	0.173	0.123	0.022	0.132	0.001	0.006	
6/3/2019 16:03			0	0.173	0.124	0.022	0.127	0.001	0.011	
6/3/2019 16:04			0	0.173	0.124	0.022	0.135	0.001	0.005	
6/3/2019 16:05	12.3	99.2	0	0.173	0.125	0.023	0.138	0.001	0.005	
6/3/2019 16:05										42.4324;-76.49727
6/3/2019 16:06			0	0.173	0.125	0.023	0.132	0.001	0.005	
6/3/2019 16:07			0	0.173	0.126	0.023	0.137	0.001	0.005	
6/3/2019 16:08			0	0.173	0.128	0.024	0.129	0.001	0.005	
6/3/2019 16:09			0	0.173	0.129	0.024	0.142	0.001	0.006	
6/3/2019 16:10	12.3	101.2	0	0.173	0.13	0.024	0.145	0.001	0.006	
6/3/2019 16:10										42.43242;-76.49715
6/3/2019 16:11			0	0.173	0.131	0.024	0.144	0.001	0.004	
6/3/2019 16:12			0	0.173	0.132	0.025	0.138	0.001	0.005	
6/3/2019 16:13			0	0.173	0.133	0.025	0.131	0.001	0.005	
6/3/2019 16:14			0	0.173	0.134	0.025	0.143	0.001	0.005	
6/3/2019 16:15	12.3	98.2	0	0.173	0.134	0.026	0.142	0.001	0.005	
6/3/2019 16:15										42.43237;-76.49727
6/3/2019 16:16			0	0.173	0.135	0.026	0.142	0.001	0.004	
6/3/2019 16:17			0	0.173	0.136	0.026	0.135	0.001	0.005	
6/3/2019 16:18			0	0.173	0.136	0.026	0.141	0.001	0.006	
6/3/2019 16:19			0	0.173	0.137	0.027	0.133	0.001	0.005	
6/3/2019 16:20	12.3	108.3	0	0.173	0.138	0.027	0.135	0.001	0.005	
6/3/2019 16:20										42.43241;-76.49718
6/3/2019 16:21			0	0.173	0.138	0.027	0.134	0.001	0.005	
6/3/2019 16:22			0	0.173	0.138	0.028	0.134	0.001	0.005	
6/3/2019 16:23			0	0.173	0.138	0.028	0.144	0.001	0.006	
6/3/2019 16:24			0	0.173	0.138	0.028	0.141	0.001	0.006	
6/3/2019 16:25	12.3	99.2	0	0.173	0.138	0.029	0.143	0.001	0.008	
6/3/2019 16:25										42.4325;-76.49708
6/3/2019 16:26			0	0.173	0.138	0.029	0.145	0.001	0.006	
6/3/2019 16:27			0	0.173	0.138	0.029	0.136	0.001	0.006	
6/3/2019 16:28			0	0.173	0.138	0.029	0.144	0.002	0.005	
6/3/2019 16:29			0	0.173	0.138	0.03	0.136	0.002	0.005	
6/3/2019 16:30	12.2	106.3	0	0.173	0.138	0.03	0.136	0.002	0.006	
6/3/2019 16:30										42.43253;-76.49717
6/3/2019 16:31			0	0.173	0.137	0.03	0.144	0.002	0.005	
6/3/2019 16:32			0	0.173	0.137	0.031	0.141	0.002	0.006	
6/3/2019 16:33			0	0.173	0.138	0.031	0.135	0.002	0.006	
6/3/2019 16:34			0	0.173	0.138	0.031	0.131	0.002	0.006	
6/3/2019 16:35	12.3	113.4	0	0.173	0.137	0.031	0.143	0.002	0.006	
6/3/2019 16:35										42.43257;-76.49723
6/3/2019 16:36			0	0.173	0.138	0.032	0.142	0.002	0.006	
6/3/2019 16:37			0	0.173	0.138	0.032	0.15	0.002	0.005	
6/3/2019 16:38			0	0.173	0.139	0.032	0.143	0.002	0.005	
6/3/2019 16:39			0	0.173	0.139	0.033	0.148	0.002	0.005	
6/3/2019 16:40	12.3	99.2	0	0.173	0.139	0.033	0.146	0.002	0.005	
6/3/2019 16:40										42.43255;-76.49716
6/3/2019 16:41			0	0.173	0.139	0.033	0.149	0.002	0.005	
6/3/2019 16:42			0	0.173	0.14	0.033	0.147	0.002	0.005	
6/3/2019 16:43			0	0.173	0.141	0.034	0.143	0.002	0.005	
6/3/2019 16:44			0	0.173	0.141	0.034	0.142	0.002	0.004	
6/3/2019 16:45	12.2	100.2	0	0.173	0.141	0.034	0.143	0.002	0.005	
6/3/2019 16:45										42.43246;-76.49722
6/3/2019 16:46			0	0.173	0.142	0.035	0.149	0.002	0.008	
6/3/2019 16:47			0	0.173	0.142	0.035	0.157	0.002	0.005	
6/3/2019 16:48			0	0.173	0.142	0.035	0.15	0.002	0.005	
6/3/2019 16:49			0	0.173	0.143	0.036	0.148	0.002	0.005	
6/3/2019 16:50	12.2	115.4	0	0.173	0.144	0.036	0.141	0.002	0.004	
6/3/2019 16:50										42.43257;-76.49718
6/3/2019 16:51			0	0.173	0.144	0.036	0.15	0.002	0.005	
6/3/2019 16:52			0	0.173	0.145	0.037	0.155	0.002	0.005	
6/3/2019 16:53			0	0.173	0.145	0.037	0.155	0.002	0.004	
6/3/2019 16:54			0	0.173	0.146	0.037	0.154	0.002	0.005	
6/3/2019 16:55	12.2	98.2	0	0.173	0.146	0.037	0.151	0.002	0.005	
6/3/2019 16:55										42.43263;-76.49691
6/3/2019 16:56			0	0.173	0.146	0.038	0.145	0.002	0.004	
6/3/2019 16:57			0	0.173	0.146	0.038	0.145	0.002	0.005	
6/3/2019 16:58			0	0.173	0.146	0.038	0.149	0.002	0.004	
6/3/2019 16:59			0	0.173	0.147	0.039	0.144	0.002	0.005	
6/3/2019 17:00	12.2	106.3	0	0.173	0.147	0.039	0.154	0.002	0.004	
6/3/2019 17:00										42.43252;-76.49714
6/3/2019 17:01			0	0.173	0.147	0.039	0.147	0.002	0.005	
6/3/2019 17:02			0	0.173	0.147	0.04	0.149	0.002	0.005	
6/3/2019 17:03			0	0.173	0.148	0.04	0.151	0.002	0.005	
6/3/2019 17:04			0	0.173	0.147	0.04	0.157	0.002	0.005	
6/3/2019 17:05	12.2	105.3	0	0.173	0.148	0.041	0.161	0.002	0.004	
6/3/2019 17:05										42.43256;-76.49714
6/3/2019 17:06			0	0.173	0.149	0.041	0.16	0.002	0.004	
6/3/2019 17:07			0	0.173	0.149	0.041	0.152	0.002	0.004	
6/3/2019 17:08			0	0.173	0.15	0.042	0.151	0.002	0.005	
6/3/2019 17:09			0	0.173	0.15	0.042	0.157	0.002	0.006	
6/3/2019 17:10	12.2	101.2	0	0.173	0.15	0.042	0.158	0.002	0.006	
6/3/2019 17:10										42.43254;-76.49712
6/3/2019 17:11			0	0.173	0.15	0.042	0.152	0.002	0.005	
6/3/2019 17:12			0	0.173	0.151	0.043	0.155	0.002	0.004	
6/3/2019 17:13			0	0.173	0.151	0.043	0.156	0.002	0.004	
6/3/2019 17:14			0	0.173	0.151	0.043	0.158	0.002	0.004	
6/3/2019 17:15	12.2	108.3	0	0.173	0.152	0.044	0.163	0.002	0.005	
6/3/2019 17:15										42.4325;-76.49718
6/3/2019 17:16			0	0.173	0.153	0.044	0.168	0.002	0.005	
6/3/2019 17:17			0	0.173	0.154	0.044	0.15	0.002	0.004	
6/3/2019 17:18			0	0.173	0.154	0.045	0.155	0.002	0.005	
6/3/2019 17:19			0	0.173	0.154	0.045	0.169	0.002	0.004	
6/3/2019 17:20	12.2	99.2	0	0.176	0.155	0.045	0.164	0.002	0.004	
6/3/2019 17:20										42.4325;-76.49718
6/3/2019 17:21			0	0.176	0.156	0.046	0.166	0.002	0.005	
6/3/2019 17:22			0	0.176	0.157	0.046	0.158	0.002	0.004	
6/3/2019 17:23			0	0.177	0.158	0.046	0.165	0.002	0.004	
6/3/2019 17:24			0	0.177	0.158	0.047	0.169	0.002	0.004	
6/3/2019 17:25	12.2	111.3	0	0.177	0.159	0.047	0.156	0.002	0.003	
6/3/2019 17:25										42.43251;-76.49711
6/3/2019 17:26			0	0.177	0.16	0.047	0.157	0.002	0.003	
6/3/2019 17:27			0	0.177	0.161	0.048	0.173	0.002	0.004	
6/3/2019 17:28			0	0.181	0.162	0.048	0.168	0.002	0.003	
6/3/2019 17:29			0	0.184	0.163	0.049	0.179	0.002	0.004	
6/3/2019 17:30	12.2	108.3	0	0.187	0.164	0.049	0.172	0.002	0.004	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/3/2019 17:30										42.43252;-76.49718
6/3/2019 17:31			0	0.187	0.165	0.049	0.142	0.002	0.004	
6/3/2019 17:32			0	0.187	0.166	0.05	0.171	0.002	0.003	
6/3/2019 17:33			0	0.187	0.166	0.05	0.168	0.002	0.004	
6/3/2019 17:34			0	0.187	0.167	0.05	0.174	0.002	0.004	
6/3/2019 17:35	12.2	105.3	0	0.187	0.167	0.051	0.16	0.002	0.004	
6/3/2019 17:35										42.43246;-76.49712
6/3/2019 17:36			0	0.187	0.167	0.051	0.16	0.002	0.004	
6/3/2019 17:37			0	0.187	0.167	0.051	0.171	0.002	0.003	
6/3/2019 17:38			0	0.187	0.167	0.052	0.169	0.002	0.004	
6/3/2019 17:39			0	0.187	0.167	0.052	0.182	0.002	0.003	
6/3/2019 17:40	12.2	110.3	0	0.187	0.168	0.052	0.172	0.002	0.003	
6/3/2019 17:40										42.43256;-76.49709
6/3/2019 17:41			0	0.187	0.168	0.053	0.162	0.002	0.003	
6/3/2019 17:42			0	0.187	0.168	0.053	0.167	0.002	0.003	
6/3/2019 17:43			0	0.187	0.168	0.053	0.164	0.002	0.003	
6/3/2019 17:44			0	0.187	0.168	0.054	0.172	0.002	0.004	
6/3/2019 17:45	12.2	101.2	0	0.187	0.168	0.054	0.164	0.002	0.003	
6/3/2019 17:45										42.43255;-76.49719
6/3/2019 17:46			0	0.187	0.168	0.055	0.174	0.002	0.003	
6/3/2019 17:47			0	0.187	0.168	0.055	0.172	0.002	0.003	
6/3/2019 17:48			0	0.187	0.168	0.055	0.167	0.002	0.012	
6/3/2019 17:49			0	0.187	0.168	0.056	0.172	0.002	0.003	
6/3/2019 17:50	12.2	100.2	0	0.188	0.169	0.056	0.188	0.002	0.003	
6/3/2019 17:50										42.43258;-76.49714
6/3/2019 17:51			0	0.188	0.17	0.056	0.181	0.002	0.004	
6/3/2019 17:52			0	0.188	0.17	0.057	0.171	0.002	0.004	
6/3/2019 17:53			0	0.188	0.171	0.057	0.172	0.002	0.003	
6/3/2019 17:54			0	0.188	0.171	0.057	0.166	0.002	0.003	
6/3/2019 17:55	12.2	101.2	0	0.191	0.172	0.058	0.178	0.002	0.004	
6/3/2019 17:55										42.43256;-76.49716
6/3/2019 17:56			0	0.191	0.172	0.058	0.179	0.002	0.003	
6/3/2019 17:57			0	0.191	0.173	0.059	0.176	0.002	0.003	
6/3/2019 17:58			0	0.191	0.173	0.059	0.176	0.002	0.003	
6/3/2019 17:59			0	0.196	0.174	0.059	0.18	0.002	0.004	
6/3/2019 18:00	12.2	107.3	0	0.196	0.174	0.06	0.177	0.002	0.004	
6/3/2019 18:00										42.43256;-76.49715
6/3/2019 18:01			0	0.196	0.175	0.06	0.181	0.002	0.003	
6/3/2019 18:02			0	0.197	0.175	0.06	0.17	0.002	0.003	
6/3/2019 18:03			0	0.197	0.176	0.061	0.184	0.002	0.003	
6/3/2019 18:04			0	0.197	0.176	0.061	0.167	0.002	0.005	
6/3/2019 18:05	12.1	99.2	0	0.197	0.176	0.061	0.179	0.002	0.005	
6/3/2019 18:05										42.43258;-76.49711
6/3/2019 18:06			0	0.197	0.176	0.062	0.176	0.002	0.005	
6/3/2019 18:07			0	0.197	0.176	0.062	0.163	0.002	0.005	
6/3/2019 18:08			0	0.197	0.176	0.063	0.181	0.002	0.005	
6/3/2019 18:09			0	0.197	0.176	0.063	0.18	0.002	0.004	
6/3/2019 18:10	12.2	100.2	0	0.197	0.177	0.063	0.18	0.002	0.006	
6/3/2019 18:10										42.43258;-76.49713
6/3/2019 18:11			0	0.197	0.177	0.064	0.18	0.002	0.004	
6/3/2019 18:12			0	0.197	0.178	0.064	0.182	0.002	0.003	
6/3/2019 18:13			0	0.197	0.178	0.064	0.181	0.002	0.005	
6/3/2019 18:14			0	0.197	0.178	0.065	0.188	0.002	0.004	
6/3/2019 18:15	12.2	100.2	0	0.197	0.179	0.065	0.187	0.002	0.004	
6/3/2019 18:15										42.43256;-76.49713
6/3/2019 18:16			0	0.199	0.179	0.066	0.196	0.002	0.003	
6/3/2019 18:17			0	0.199	0.18	0.066	0.183	0.002	0.004	
6/3/2019 18:18			0	0.199	0.18	0.066	0.179	0.003	0.004	
6/3/2019 18:19			0	0.199	0.18	0.067	0.184	0.003	0.003	
6/3/2019 18:20	12.1	101.2	0	0.199	0.181	0.067	0.182	0.003	0.003	
6/3/2019 18:20										42.43252;-76.49715
6/3/2019 18:21			0	0.199	0.181	0.067	0.192	0.003	0.004	
6/3/2019 18:22			0	0.199	0.181	0.068	0.165	0.003	0.005	
6/3/2019 18:23			0	0.209	0.182	0.068	0.207	0.003	0.004	
6/3/2019 18:24			0	0.209	0.183	0.069	0.188	0.003	0.004	
6/3/2019 18:25	12.2	100.2	0	0.209	0.183	0.069	0.189	0.003	0.006	
6/3/2019 18:25										42.43248;-76.49717
6/3/2019 18:26			0	0.209	0.184	0.069	0.184	0.003	0.003	
6/3/2019 18:27			0	0.21	0.184	0.07	0.2	0.003	0.004	
6/3/2019 18:28			0	0.21	0.185	0.07	0.2	0.003	0.003	
6/3/2019 18:29			0	0.212	0.186	0.071	0.203	0.003	0.003	
6/3/2019 18:30	12.1	106.3	0	0.212	0.187	0.071	0.198	0.003	0.006	
6/3/2019 18:30										42.43249;-76.49717
6/3/2019 18:31			0	0.212	0.188	0.071	0.204	0.003	0.006	
6/3/2019 18:32			0	0.215	0.189	0.072	0.2	0.003	0.003	
6/3/2019 18:33			0	0.215	0.19	0.072	0.204	0.003	0.003	
6/3/2019 18:34			0	0.215	0.192	0.073	0.199	0.003	0.003	
6/3/2019 18:35	12.1	109.3	0	0.216	0.193	0.073	0.216	0.003	0.003	
6/3/2019 18:35										42.43249;-76.49719
6/3/2019 18:36			0	0.219	0.195	0.074	0.21	0.003	0.003	
6/3/2019 18:37			0	0.219	0.197	0.074	0.206	0.003	0.003	
6/3/2019 18:38			0	0.219	0.198	0.074	0.207	0.003	0.003	
6/3/2019 18:39			0	0.219	0.199	0.075	0.211	0.003	0.003	
6/3/2019 18:40	12.2	103.2	0	0.219	0.2	0.075	0.204	0.003	0.006	
6/3/2019 18:40										42.43247;-76.49718
6/3/2019 18:41			0	0.219	0.201	0.076	0.215	0.003	0.005	
6/3/2019 18:42			0	0.223	0.202	0.076	0.216	0.003	0.004	
6/3/2019 18:43			0	0.223	0.204	0.077	0.213	0.003	0.004	
6/3/2019 18:44			0	0.223	0.204	0.077	0.221	0.003	0.004	
6/3/2019 18:45	12.1	102.2	0	0.223	0.205	0.078	0.218	0.003	0.004	
6/3/2019 18:45										42.43253;-76.4972
6/3/2019 18:46			0	0.225	0.207	0.078	0.217	0.003	0.003	
6/3/2019 18:47			0	0.225	0.208	0.078	0.221	0.003	0.003	
6/3/2019 18:48			0	0.225	0.208	0.079	0.209	0.003	0.003	
6/3/2019 18:49			0	0.226	0.209	0.079	0.222	0.003	0.004	
6/3/2019 18:50	12.1	101.2	0	0.226	0.209	0.08	0.216	0.003	0.004	
6/3/2019 18:50										42.43248;-76.49718
6/3/2019 18:51			0	0.226	0.209	0.08	0.217	0.003	0.003	
6/3/2019 18:52			0	0.226	0.21	0.081	0.214	0.003	0.003	
6/3/2019 18:53			0	0.227	0.21	0.081	0.214	0.003	0.004	
6/3/2019 18:54			0	0.227	0.211	0.081	0.207	0.003	0.004	
6/3/2019 18:55	12.1	102.2	0	0.227	0.211	0.082	0.213	0.003	0.004	
6/3/2019 18:55										42.43252;-76.49723
6/3/2019 18:56			0	0.227	0.211	0.082	0.218	0.003	0.005	
6/3/2019 18:57			0	0.227	0.212	0.083	0.22	0.003	0.004	
6/3/2019 18:58			0	0.227	0.212	0.083	0.21	0.003	0.004	
6/3/2019 18:59			0	0.227	0.212	0.084	0.213	0.003	0.004	
6/3/2019 19:00	12.1	121.5	0	0.227	0.212	0.084	0.213	0.003	0.004	
6/3/2019 19:00										42.43261;-76.49725

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/3/2019 19:01			0	0.227	0.212	0.085	0.203	0.003	0.004	
6/3/2019 19:02			0	0.227	0.211	0.085	0.216	0.003	0.004	
6/3/2019 19:03			0	0.227	0.211	0.085	0.208	0.003	0.004	
6/3/2019 19:04			0	0.227	0.211	0.086	0.213	0.003	0.004	
6/3/2019 19:05	12.1	100.2	0	0.227	0.211	0.086	0.207	0.003	0.004	
6/3/2019 19:05										42.43263;-76.49727
6/3/2019 19:06			0	0.227	0.21	0.087	0.208	0.003	0.005	
6/3/2019 19:07			0	0.227	0.21	0.087	0.207	0.003	0.004	
6/3/2019 19:08			0	0.227	0.209	0.088	0.211	0.003	0.005	
6/3/2019 19:09			0	0.227	0.209	0.088	0.204	0.003	0.004	
6/3/2019 19:10	12.1	103.2	0	0.227	0.208	0.088	0.204	0.003	0.004	
6/3/2019 19:10										42.43275;-76.49734
6/3/2019 19:11			0	0.227	0.208	0.089	0.211	0.003	0.004	
6/3/2019 19:12			0	0.227	0.208	0.089	0.207	0.003	0.004	
6/3/2019 19:13			0	0.227	0.207	0.09	0.21	0.003	0.004	
6/3/2019 19:14			0	0.227	0.208	0.09	0.215	0.003	0.004	
6/3/2019 19:15	12.1	108.3	0	0.227	0.207	0.091	0.21	0.003	0.005	
6/3/2019 19:15										42.4326;-76.49715
6/3/2019 19:16			0	0.227	0.207	0.091	0.212	0.003	0.006	
6/3/2019 19:17			0	0.227	0.207	0.092	0.201	0.003	0.013	
6/3/2019 19:18			0	0.227	0.207	0.092	0.2	0.003	0.007	
6/3/2019 19:19			0	0.227	0.206	0.092	0.213	0.003	0.014	
6/3/2019 19:20	12.1	107.3	0	0.227	0.206	0.093	0.205	0.003	0.003	
6/3/2019 19:20										42.43259;-76.49725
6/3/2019 19:21			0	0.227	0.206	0.093	0.198	0.003	0.004	
6/3/2019 19:22			0	0.227	0.206	0.094	0.214	0.003	0.004	
6/3/2019 19:23			0	0.227	0.207	0.094	0.21	0.003	0.004	
6/3/2019 19:24			0	0.227	0.207	0.095	0.216	0.003	0.013	
6/3/2019 19:25	12.1	101.2	0	0.227	0.207	0.095	0.213	0.003	0.004	
6/3/2019 19:25										42.43256;-76.49714
6/3/2019 19:26			0	0.227	0.208	0.095	0.221	0.003	0.005	
6/3/2019 19:27			0	0.227	0.208	0.096	0.212	0.003	0.004	
6/3/2019 19:28			0	0.227	0.209	0.096	0.222	0.003	0.005	
6/3/2019 19:29			0	0.227	0.209	0.097	0.173	0.003	0.004	
6/3/2019 19:30	12.1	120.5	0	0.227	0.209	0.097	0.209	0.003	0.005	
6/3/2019 19:30										42.43263;-76.49722
6/3/2019 19:31			0	0.227	0.209	0.098	0.21	0.003	0.005	
6/3/2019 19:32			0	0.227	0.209	0.098	0.204	0.003	0.005	
6/3/2019 19:33			0	0.227	0.209	0.098	0.209	0.003	0.005	
6/3/2019 19:34			0	0.227	0.21	0.099	0.206	0.003	0.005	
6/3/2019 19:35	12.1	101.2	0	0.227	0.21	0.099	0.208	0.003	0.007	
6/3/2019 19:35										42.43254;-76.49726
6/3/2019 19:36			0	0.227	0.21	0.1	0.205	0.003	0.005	
6/3/2019 19:37			0	0.227	0.21	0.1	0.203	0.003	0.006	
6/3/2019 19:38			0	0.227	0.209	0.101	0.207	0.003	0.006	
6/3/2019 19:39			0	0.227	0.209	0.101	0.209	0.003	0.005	
6/3/2019 19:40	12.1	100.2	0	0.227	0.209	0.101	0.207	0.003	0.005	
6/3/2019 19:40										42.43252;-76.49719
6/3/2019 19:41			0	0.227	0.208	0.102	0.2	0.003	0.005	
6/3/2019 19:42			0	0.227	0.207	0.102	0.204	0.003	0.006	
6/3/2019 19:43			0	0.227	0.207	0.103	0.201	0.003	0.005	
6/3/2019 19:44			0	0.227	0.206	0.103	0.197	0.003	0.006	
6/3/2019 19:45	12.1	104.3	0	0.227	0.205	0.104	0.2	0.003	0.006	
6/3/2019 19:45										42.43255;-76.49709
6/3/2019 19:46			0	0.227	0.204	0.104	0.205	0.003	0.005	
6/3/2019 19:47			0	0.227	0.204	0.104	0.204	0.003	0.005	
6/3/2019 19:48			0	0.227	0.204	0.105	0.207	0.003	0.005	
6/3/2019 19:49			0	0.227	0.203	0.105	0.203	0.003	0.006	
6/3/2019 19:50	12.1	112.4	0	0.227	0.203	0.106	0.206	0.003	0.005	
6/3/2019 19:50										42.43258;-76.49705
6/3/2019 19:51			0	0.227	0.203	0.106	0.205	0.003	0.006	
6/3/2019 19:52			0	0.227	0.203	0.107	0.201	0.003	0.005	
6/3/2019 19:53			0	0.227	0.203	0.107	0.206	0.003	0.005	
6/3/2019 19:54			0	0.227	0.203	0.107	0.214	0.003	0.006	
6/3/2019 19:55	12.1	114.4	0	0.227	0.203	0.108	0.208	0.003	0.009	
6/3/2019 19:55										42.43259;-76.49709
6/3/2019 19:56			0	0.227	0.203	0.108	0.21	0.003	0.006	
6/3/2019 19:57			0	0.227	0.203	0.109	0.203	0.003	0.007	
6/3/2019 19:58			0	0.227	0.203	0.109	0.203	0.004	0.006	
6/3/2019 19:59			0	0.227	0.203	0.11	0.207	0.004	0.006	
6/3/2019 20:00	12.1	100.2	0	0.227	0.204	0.11	0.207	0.004	0.006	
6/3/2019 20:00										42.43249;-76.49695
6/3/2019 20:01			0	0.227	0.205	0.11	0.212	0.004	0.006	
6/3/2019 20:02			0	0.227	0.205	0.111	0.211	0.005	0.411	
6/3/2019 20:03			0	0.229	0.206	0.111	0.217	0.005	0.228	
6/3/2019 20:04			0	0.229	0.207	0.112	0.214	0.005	0.007	
6/3/2019 20:05	12.1	103.2	0	0.229	0.207	0.112	0.215	0.005	0.007	
6/3/2019 20:05										42.43261;-76.49704
6/3/2019 20:06			0	0.229	0.208	0.113	0.21	0.005	0.066	
6/3/2019 20:07			0	0.261	0.208	0.113	0.215	0.005	0.209	
6/3/2019 20:08			0	0.261	0.209	0.114	0.213	0.006	0.033	
6/3/2019 20:09			0	0.261	0.209	0.114	0.207	0.006	0.018	
6/3/2019 20:10	12.1	101.2	0	0.261	0.21	0.114	0.21	0.006	0.011	
6/3/2019 20:10										42.43259;-76.49702
6/3/2019 20:11			0	0.261	0.21	0.115	0.212	0.006	0.01	
6/3/2019 20:12			0	0.261	0.211	0.115	0.222	0.006	0.007	
6/3/2019 20:13			0	0.261	0.212	0.116	0.211	0.006	0.01	
6/3/2019 20:14			0	0.261	0.212	0.116	0.22	0.006	0.054	
6/3/2019 20:15	12.1	110.3	0	0.261	0.213	0.117	0.207	0.006	0.013	
6/3/2019 20:15										42.43256;-76.49701
6/3/2019 20:16			0	0.261	0.212	0.117	0.215	0.006	0.009	
6/3/2019 20:17			0	0.261	0.212	0.118	0.212	0.006	0.008	
6/3/2019 20:18									0.01	
6/5/2019 13:46	12.6	118.4								
6/5/2019 13:47			0	0	0	0	0			
6/5/2019 13:48			0	0	0	0	0	0	0.051	
6/5/2019 13:49			0	0	0	0	0	0	0.048	
6/5/2019 13:50	12.5	106.3	0	0	0	0	0	0	0.048	42.43258;-76.49696
6/5/2019 13:51			0	0	0	0	0	0	0.047	
6/5/2019 13:52			0	0	0	0	0	0	0.046	
6/5/2019 13:53			0	0	0	0	0	0	0.047	
6/5/2019 13:54			0	0.003	0	0	0	0	0.046	
6/5/2019 13:55	12.5	101.2	0	0.003	0	0	0	0	0.046	42.43261;-76.49699
6/5/2019 13:56			0	0.003	0	0	0	0	0.046	
6/5/2019 13:57			0	0.003	0	0	0	0	0.045	
6/5/2019 13:58			0	0.003	0	0	0	0	0.045	
6/5/2019 13:59			0	0.003	0	0	0	0	0.046	
6/5/2019 14:00	12.5	99.2	0	0.003	0	0	0	0	0.046	
6/5/2019 14:00										42.4326;-76.49701

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/5/2019 14:01			0	0.003	0	0	0	0	0.044	
6/5/2019 14:02			0	0.003	0	0	0	0	0.045	
6/5/2019 14:03			0	0.003	0	0	0	0.001	0.045	
6/5/2019 14:04			0	0.003	0	0	0	0.002	0.045	
6/5/2019 14:05	12.5	115.4	0	0.003	0	0	0	0.002	0.049	
6/5/2019 14:05										42.43255;-76.49707
6/5/2019 14:06			0	0.003	0	0	0	0.002	0.045	
6/5/2019 14:07			0	0.003	0	0	0	0.002	0.044	
6/5/2019 14:08			0	0.003	0	0	0	0.002	0.044	
6/5/2019 14:09			0	0.003	0	0	0	0.002	0.044	
6/5/2019 14:10	12.5	100.2	0	0.003	0	0	0	0.002	0.043	
6/5/2019 14:10										42.43255;-76.49709
6/5/2019 14:11			0	0.003	0	0	0	0.002	0.043	
6/5/2019 14:12			0	0.003	0	0	0	0.002	0.043	
6/5/2019 14:13			0	0.003	0	0	0	0.002	0.042	
6/5/2019 14:14			0	0.003	0	0	0	0.002	0.042	
6/5/2019 14:15	12.5	96.2	0	0.003	0	0	0	0.003	0.042	
6/5/2019 14:15										42.4325;-76.49702
6/5/2019 14:16			0	0.003	0	0	0	0.003	0.042	
6/5/2019 14:17			0	0.003	0	0	0	0.003	0.041	
6/5/2019 14:18			0	0.003	0	0	0	0.003	0.042	
6/5/2019 14:19			0	0.003	0	0	0	0.003	0.044	
6/5/2019 14:20	12.5	99.2	0	0.003	0	0	0	0.003	0.046	
6/5/2019 14:20										42.43252;-76.49696
6/5/2019 14:21			0	0.003	0	0	0	0.003	0.043	
6/5/2019 14:22			0	0.003	0	0	0	0.003	0.041	
6/5/2019 14:23			0	0.003	0	0	0	0.003	0.041	
6/5/2019 14:24			0	0.003	0	0	0	0.003	0.041	
6/5/2019 14:25	12.5	98.2	0	0.003	0	0	0	0.003	0.041	
6/5/2019 14:25										42.43256;-76.49687
6/5/2019 14:26			0	0.003	0	0	0	0.004	0.223	
6/5/2019 14:27			0	0.003	0	0	0	0.004	0.055	
6/5/2019 14:28			0	0.003	0	0	0	0.004	0.046	
6/5/2019 14:29			0	0.003	0	0	0	0.004	0.041	
6/5/2019 14:30	12.5	98.2	0	0.003	0	0	0	0.004	0.041	
6/5/2019 14:30										42.43258;-76.49694
6/5/2019 14:31			0	0.003	0	0	0	0.004	0.046	
6/5/2019 14:32			0	0.003	0	0	0	0.004	0.042	
6/5/2019 14:33			0	0.003	0	0	0	0.005	0.043	
6/5/2019 14:34			0	0.003	0	0	0	0.005	0.042	
6/5/2019 14:35	12.5	104.3	0	0.003	0	0	0	0.005	0.041	
6/5/2019 14:35										42.43253;-76.49716
6/5/2019 14:36			0	0.003	0	0	0	0.005	0.041	
6/5/2019 14:37			0	0.003	0	0	0	0.005	0.062	
6/5/2019 14:38			0	0.003	0	0	0	0.005	0.044	
6/5/2019 14:39			0	0.003	0	0	0	0.005	0.041	
6/5/2019 14:40	12.5	99.2	0	0.003	0	0	0	0.005	0.041	
6/5/2019 14:40										42.43254;-76.49696
6/5/2019 14:41			0	0.003	0	0	0	0.005	0.04	
6/5/2019 14:42			0	0.003	0	0	0	0.005	0.04	
6/5/2019 14:43			0	0.003	0	0	0	0.006	0.074	
6/5/2019 14:44			0	0.003	0	0	0	0.006	0.045	
6/5/2019 14:45	12.5	99.2	0	0.003	0	0	0	0.006	0.044	
6/5/2019 14:45										42.43248;-76.49705
6/5/2019 14:46			0	0.003	0	0	0	0.006	0.063	
6/5/2019 14:47			0	0.003	0	0	0	0.006	0.055	
6/5/2019 14:48			0	0.003	0	0	0	0.006	0.074	
6/5/2019 14:49			0	0.003	0	0	0.001	0.006	0.047	
6/5/2019 14:50	12.5	102.2	0	0.015	0	0	0	0.006	0.04	
6/5/2019 14:50										42.43251;-76.49698
6/5/2019 14:51			0	0.015	0	0	0.001	0.006	0.04	
6/5/2019 14:52			0	0.015	0	0	0	0.006	0.041	
6/5/2019 14:53			0	0.015	0	0	0	0.007	0.04	
6/5/2019 14:54			0	0.02	0	0	0.005	0.007	0.041	
6/5/2019 14:55	12.5	103.2	0	0.02	0	0	0.001	0.007	0.041	
6/5/2019 14:55										42.43256;-76.49691
6/5/2019 14:56			0	0.02	0	0	0	0.007	0.063	
6/5/2019 14:57			0	0.02	0	0	0.002	0.007	0.045	
6/5/2019 14:58			0	0.029	0	0	0.005	0.007	0.043	
6/5/2019 14:59			0	0.029	0	0	0.005	0.007	0.042	
6/5/2019 15:00	12.4	103.2	0	0.029	0.001	0	0	0.007	0.042	
6/5/2019 15:00										42.4325;-76.49704
6/5/2019 15:01			0	0.029	0.001	0	0.005	0.007	0.042	
6/5/2019 15:02			0	0.029	0.001	0	0.004	0.007	0.042	
6/5/2019 15:03			0	0.03	0.001	0	0.014	0.007	0.044	
6/5/2019 15:04			0	0.034	0.002	0	0.007	0.008	0.042	
6/5/2019 15:05	12.5	106.3	0	0.034	0.002	0	0.001	0.008	0.041	
6/5/2019 15:05										42.43244;-76.49709
6/5/2019 15:06			0	0.034	0.002	0	0.02	0.008	0.041	
6/5/2019 15:07			0	0.034	0.003	0	0.011	0.008	0.041	
6/5/2019 15:08			0	0.034	0.003	0	0	0.008	0.042	
6/5/2019 15:09			0	0.034	0.004	0	0.002	0.008	0.046	
6/5/2019 15:10	12.4	104.3	0	0.034	0.004	0	0.01	0.008	0.042	
6/5/2019 15:10										42.43238;-76.49713
6/5/2019 15:11			0	0.034	0.004	0	0.002	0.008	0.041	
6/5/2019 15:12			0	0.034	0.005	0	0.011	0.008	0.041	
6/5/2019 15:13			0	0.035	0.005	0	0.035	0.008	0.041	
6/5/2019 15:14			0	0.048	0.005	0	0.013	0.008	0.041	
6/5/2019 15:15	12.4	100.2	0	0.048	0.006	0	0.004	0.009	0.044	
6/5/2019 15:15										42.43238;-76.49711
6/5/2019 15:16			0	0.048	0.006	0	0.012	0.009	0.041	
6/5/2019 15:17			0	0.048	0.007	0	0	0.009	0.041	
6/5/2019 15:18			0	0.048	0.007	0	0	0.009	0.041	
6/5/2019 15:19			0	0.048	0.008	0	0.029	0.009	0.041	
6/5/2019 15:20	12.5	102.2	0	0.048	0.008	0	0	0.009	0.04	
6/5/2019 15:20										42.43239;-76.49711
6/5/2019 15:21			0	0.055	0.009	0	0.017	0.009	0.04	
6/5/2019 15:22			0	0.055	0.01	0	0.009	0.009	0.04	
6/5/2019 15:23			0	0.055	0.01	0	0.027	0.009	0.04	
6/5/2019 15:24			0	0.055	0.01	0	0.021	0.009	0.04	
6/5/2019 15:25	12.4	101.2	0	0.055	0.011	0	0.01	0.009	0.04	
6/5/2019 15:25										42.43231;-76.49728
6/5/2019 15:26			0	0.055	0.013	0	0.01	0.009	0.04	
6/5/2019 15:27			0	0.055	0.014	0	0.022	0.01	0.039	
6/5/2019 15:28			0	0.055	0.015	0	0.036	0.01	0.04	
6/5/2019 15:29			0	0.056	0.016	0	0.049	0.01	0.039	
6/5/2019 15:30	12.5	103.2	0	0.056	0.019	0	0.032	0.01	0.039	
6/5/2019 15:30										42.43235;-76.49731
6/5/2019 15:31			0	0.056	0.02	0	0.02	0.01	0.04	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/5/2019 15:32			0	0.056	0.022	0	0.056	0.01	0.04	
6/5/2019 15:33			0	0.061	0.024	0.001	0.041	0.01	0.04	
6/5/2019 15:34			0	0.061	0.026	0.001	0.035	0.01	0.039	
6/5/2019 15:35	12.4	109.3	0	0.061	0.027	0.001	0.032	0.01	0.04	
6/5/2019 15:35										42.43222;-76.49752
6/5/2019 15:36			0	0.061	0.028	0.001	0.037	0.01	0.042	
6/5/2019 15:37			0	0.061	0.029	0.001	0.046	0.01	0.06	
6/5/2019 15:38			0	0.061	0.031	0.001	0.043	0.01	0.045	
6/5/2019 15:39			0	0.065	0.033	0.001	0.051	0.011	0.041	
6/5/2019 15:40	12.4	104.3	0	0.069	0.034	0.001	0.054	0.011	0.043	
6/5/2019 15:40										42.43224;-76.49739
6/5/2019 15:41			0	0.069	0.036	0.001	0.048	0.011	0.043	
6/5/2019 15:42			0	0.069	0.037	0.001	0.05	0.011	0.04	
6/5/2019 15:43			0	0.079	0.038	0.001	0.039	0.011	0.046	
6/5/2019 15:44			0	0.079	0.039	0.001	0.066	0.011	0.045	
6/5/2019 15:45	12.4	100.2	0	0.079	0.041	0.002	0.06	0.011	0.04	
6/5/2019 15:45										42.43217;-76.49747
6/5/2019 15:46			0	0.079	0.042	0.002	0.067	0.011	0.039	
6/5/2019 15:47			0	0.079	0.043	0.002	0.069	0.011	0.039	
6/5/2019 15:48			0	0.079	0.044	0.002	0.072	0.011	0.039	
6/5/2019 15:49			0	0.079	0.045	0.002	0.064	0.011	0.038	
6/5/2019 15:50	12.4	100.2	0	0.079	0.047	0.002	0.058	0.012	0.038	
6/5/2019 15:50										42.43221;-76.49744
6/5/2019 15:51			0	0.079	0.049	0.002	0.054	0.012	0.038	
6/5/2019 15:52			0	0.079	0.05	0.002	0.076	0.012	0.037	
6/5/2019 15:53			0	0.079	0.051	0.003	0.069	0.012	0.038	
6/5/2019 15:54			0	0.091	0.052	0.003	0.077	0.012	0.04	
6/5/2019 15:55	12.4	102.2	0	0.114	0.053	0.003	0.038	0.012	0.07	
6/5/2019 15:55										42.43238;-76.49728
6/5/2019 15:56			0	0.114	0.056	0.003	0.07	0.012	0.045	
6/5/2019 15:57			0	0.114	0.058	0.003	0.051	0.012	0.039	
6/5/2019 15:58			0	0.114	0.059	0.003	0.045	0.012	0.041	
6/5/2019 15:59			0	0.114	0.059	0.003	0.075	0.012	0.039	
6/5/2019 16:00	12.4	99.2	0	0.114	0.06	0.003	0.041	0.012	0.055	
6/5/2019 16:00										42.43232;-76.49738
6/5/2019 16:01			0	0.114	0.06	0.004	0.065	0.013	0.054	
6/5/2019 16:02			0	0.114	0.061	0.004	0.048	0.013	0.057	
6/5/2019 16:03			0	0.114	0.06	0.004	0.08	0.013	0.04	
6/5/2019 16:04			0	0.114	0.061	0.004	0.093	0.013	0.039	
6/5/2019 16:05	12.4	99.2	0	0.114	0.063	0.004	0.073	0.013	0.038	
6/5/2019 16:05										42.43221;-76.49742
6/5/2019 16:06			0	0.114	0.064	0.004	0.072	0.013	0.038	
6/5/2019 16:07			0	0.114	0.066	0.005	0.093	0.013	0.038	
6/5/2019 16:08			0	0.115	0.068	0.005	0.084	0.013	0.038	
6/5/2019 16:09			0	0.115	0.07	0.005	0.089	0.013	0.037	
6/5/2019 16:10	12.4	109.3	0	0.115	0.072	0.005	0.084	0.013	0.037	
6/5/2019 16:10										42.43232;-76.49728
6/5/2019 16:11			0	0.115	0.072	0.005	0.081	0.013	0.036	
6/5/2019 16:12			0	0.115	0.074	0.005	0.091	0.013	0.036	
6/5/2019 16:13			0	0.115	0.075	0.006	0.111	0.014	0.04	
6/5/2019 16:14			0	0.115	0.077	0.006	0.098	0.014	0.038	
6/5/2019 16:15	12.4	103.2	0	0.115	0.078	0.006	0.104	0.014	0.037	
6/5/2019 16:15										42.43239;-76.49718
6/5/2019 16:16			0	0.121	0.081	0.006	0.107	0.014	0.036	
6/5/2019 16:17			0	0.121	0.083	0.006	0.098	0.014	0.036	
6/5/2019 16:18			0	0.121	0.086	0.007	0.093	0.014	0.037	
6/5/2019 16:19			0	0.121	0.087	0.007	0.095	0.014	0.039	
6/5/2019 16:20	12.4	101.2	0	0.121	0.088	0.007	0.095	0.014	0.037	
6/5/2019 16:20										42.43268;-76.49667
6/5/2019 16:21			0	0.121	0.089	0.007	0.09	0.014	0.037	
6/5/2019 16:22			0	0.121	0.09	0.007	0.1	0.014	0.037	
6/5/2019 16:23			0	0.121	0.091	0.008	0.093	0.014	0.036	
6/5/2019 16:24			0	0.121	0.091	0.008	0.095	0.014	0.038	
6/5/2019 16:25	12.4	101.2	0	0.121	0.091	0.008	0.09	0.014	0.037	
6/5/2019 16:25										42.43268;-76.49666
6/5/2019 16:26			0	0.121	0.091	0.008	0.082	0.015	0.037	
6/5/2019 16:27			0	0.121	0.092	0.008	0.107	0.015	0.044	
6/5/2019 16:28			0	0.121	0.092	0.008	0.105	0.015	0.039	
6/5/2019 16:29			0	0.128	0.093	0.009	0.101	0.015	0.039	
6/5/2019 16:30	12.4	106.3	0	0.128	0.093	0.009	0.102	0.015	0.038	
6/5/2019 16:30										42.43238;-76.49728
6/5/2019 16:31			0	0.128	0.092	0.009	0.098	0.015	0.038	
6/5/2019 16:32			0	0.128	0.091	0.009	0.104	0.015	0.039	
6/5/2019 16:33			0	0.128	0.092	0.009	0.097	0.015	0.038	
6/5/2019 16:34			0	0.128	0.092	0.01	0.089	0.015	0.038	
6/5/2019 16:35	12.4	107.3	0	0.128	0.092	0.01	0.096	0.015	0.055	
6/5/2019 16:35										42.43242;-76.49721
6/5/2019 16:36			0	0.128	0.092	0.01	0.111	0.015	0.042	
6/5/2019 16:37			0	0.128	0.092	0.01	0.09	0.015	0.038	
6/5/2019 16:38			0	0.128	0.092	0.01	0.11	0.016	0.04	
6/5/2019 16:39			0	0.128	0.092	0.011	0.105	0.016	0.039	
6/5/2019 16:40	12.4	99.2	0	0.128	0.093	0.011	0.104	0.016	0.038	
6/5/2019 16:40										42.4323;-76.49748
6/5/2019 16:41			0	0.128	0.093	0.011	0.107	0.016	0.054	
6/5/2019 16:42			0	0.128	0.094	0.011	0.097	0.016	0.041	
6/5/2019 16:43			0	0.128	0.094	0.011	0.109	0.016	0.037	
6/5/2019 16:44			0	0.128	0.095	0.012	0.12	0.016	0.037	
6/5/2019 16:45	12.4	103.2	0	0.128	0.097	0.012	0.114	0.016	0.038	
6/5/2019 16:45										42.43248;-76.49713
6/5/2019 16:46			0	0.128	0.098	0.012	0.099	0.016	0.037	
6/5/2019 16:47			0	0.128	0.099	0.012	0.104	0.016	0.036	
6/5/2019 16:48			0	0.128	0.099	0.013	0.092	0.016	0.085	
6/5/2019 16:49			0	0.128	0.1	0.013	0.102	0.017	0.044	
6/5/2019 16:50	12.4	114.4	0	0.128	0.101	0.013	0.107	0.017	0.035	
6/5/2019 16:50										42.43246;-76.49731
6/5/2019 16:51			0	0.128	0.101	0.013	0.107	0.017	0.035	
6/5/2019 16:52			0	0.128	0.102	0.013	0.113	0.017	0.038	
6/5/2019 16:53			0	0.128	0.103	0.014	0.119	0.017	0.036	
6/5/2019 16:54			0	0.131	0.104	0.014	0.118	0.017	0.036	
6/5/2019 16:55	12.4	100.2	0	0.131	0.105	0.014	0.109	0.017	0.035	
6/5/2019 16:55										42.43248;-76.49718
6/5/2019 16:56			0	0.131	0.105	0.014	0.107	0.017	0.035	
6/5/2019 16:57			0	0.131	0.106	0.015	0.106	0.017	0.035	
6/5/2019 16:58			0	0.131	0.106	0.015	0.114	0.017	0.035	
6/5/2019 16:59			0	0.131	0.107	0.015	0.124	0.017	0.035	
6/5/2019 17:00	12.4	107.3	0	0.131	0.107	0.015	0.119	0.017	0.036	
6/5/2019 17:00										42.43251;-76.49712
6/5/2019 17:01			0	0.131	0.107	0.015	0.13	0.017	0.036	
6/5/2019 17:02			0	0.133	0.108	0.016	0.127	0.018	0.035	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/5/2019 17:03			0	0.135	0.109	0.016	0.117	0.018	0.035	
6/5/2019 17:04			0	0.136	0.111	0.016	0.12	0.018	0.043	
6/5/2019 17:05	12.4	100.2	0	0.138	0.112	0.016	0.132	0.018	0.058	
6/5/2019 17:05										42.4325;-76.49722
6/5/2019 17:06			0	0.138	0.114	0.017	0.136	0.018	0.039	
6/5/2019 17:07			0	0.139	0.115	0.017	0.124	0.018	0.036	
6/5/2019 17:08			0	0.141	0.116	0.017	0.124	0.018	0.036	
6/5/2019 17:09			0	0.148	0.117	0.018	0.134	0.018	0.036	
6/5/2019 17:10	12.4	105.3	0	0.148	0.118	0.018	0.125	0.018	0.037	
6/5/2019 17:10										42.43252;-76.49727
6/5/2019 17:11			0	0.148	0.119	0.018	0.143	0.018	0.039	
6/5/2019 17:12			0	0.148	0.121	0.018	0.127	0.018	0.045	
6/5/2019 17:13			0	0.149	0.123	0.019	0.145	0.018	0.042	
6/5/2019 17:14			0	0.149	0.125	0.019	0.133	0.019	0.038	
6/5/2019 17:15	12.3	100.2	0	0.149	0.127	0.019	0.13	0.019	0.038	
6/5/2019 17:15										42.43252;-76.49704
6/5/2019 17:16			0	0.149	0.128	0.02	0.144	0.019	0.038	
6/5/2019 17:17			0	0.149	0.129	0.02	0.134	0.019	0.039	
6/5/2019 17:18			0	0.149	0.129	0.02	0.132	0.019	0.045	
6/5/2019 17:19			0	0.149	0.13	0.02	0.137	0.019	0.049	
6/5/2019 17:20	12.4	107.3	0	0.161	0.131	0.021	0.157	0.019	0.046	
6/5/2019 17:20										42.43258;-76.49716
6/5/2019 17:21			0	0.165	0.131	0.021	0.156	0.019	0.049	
6/5/2019 17:22			0	0.172	0.133	0.021	0.153	0.019	0.049	
6/5/2019 17:23			0	0.172	0.134	0.022	0.15	0.019	0.049	
6/5/2019 17:24			0	0.172	0.136	0.022	0.144	0.019	0.053	
6/5/2019 17:25	12.3	100.2	0	0.172	0.138	0.022	0.154	0.02	0.045	
6/5/2019 17:25										42.43275;-76.49714
6/5/2019 17:26			0	0.172	0.139	0.022	0.171	0.02	0.045	
6/5/2019 17:27			0	0.187	0.14	0.023	0.167	0.02	0.047	
6/5/2019 17:28			0	0.187	0.141	0.023	0.177	0.02	0.049	
6/5/2019 17:29			0	0.187	0.143	0.023	0.166	0.02	0.048	
6/5/2019 17:30	12.3	107.3	0	0.19	0.146	0.024	0.148	0.02	0.047	
6/5/2019 17:30										42.4326;-76.49706
6/5/2019 17:31			0	0.19	0.148	0.024	0.173	0.02	0.047	
6/5/2019 17:32			0	0.19	0.151	0.025	0.161	0.02	0.05	
6/5/2019 17:33			0	0.19	0.153	0.025	0.183	0.02	0.047	
6/5/2019 17:34			0	0.19	0.156	0.025	0.19	0.02	0.054	
6/5/2019 17:35	12.3	109.3	0	0.204	0.159	0.026	0.171	0.021	0.107	
6/5/2019 17:35										42.4326;-76.49712
6/5/2019 17:36			0	0.204	0.162	0.026	0.185	0.021	0.052	
6/5/2019 17:37			0	0.206	0.164	0.026	0.206	0.021	0.049	
6/5/2019 17:38			0	0.206	0.166	0.027	0.186	0.021	0.049	
6/5/2019 17:39			0	0.206	0.168	0.027	0.192	0.021	0.046	
6/5/2019 17:40	12.3	101.2	0	0.206	0.171	0.028	0.179	0.021	0.046	
6/5/2019 17:40										42.43256;-76.49718
6/5/2019 17:41			0	0.206	0.174	0.028	0.185	0.021	0.047	
6/5/2019 17:42			0	0.206	0.177	0.028	0.179	0.021	0.045	
6/5/2019 17:43			0	0.206	0.178	0.029	0.186	0.021	0.044	
6/5/2019 17:44			0	0.206	0.179	0.029	0.189	0.022	0.045	
6/5/2019 17:45	12.3	107.3	0	0.206	0.179	0.029	0.182	0.022	0.051	
6/5/2019 17:45										42.43259;-76.49712
6/5/2019 17:46			0	0.206	0.181	0.03	0.184	0.022	0.053	
6/5/2019 17:47			0	0.206	0.181	0.03	0.193	0.022	0.049	
6/5/2019 17:48			0	0.206	0.183	0.031	0.183	0.022	0.043	
6/5/2019 17:49			0	0.206	0.184	0.031	0.179	0.022	0.043	
6/5/2019 17:50	12.3	109.3	0	0.206	0.184	0.031	0.177	0.022	0.042	
6/5/2019 17:50										42.43249;-76.49709
6/5/2019 17:51			0	0.206	0.184	0.032	0.177	0.022	0.042	
6/5/2019 17:52			0	0.206	0.183	0.032	0.165	0.022	0.042	
6/5/2019 17:53			0	0.206	0.182	0.032	0.164	0.022	0.041	
6/5/2019 17:54			0	0.206	0.181	0.033	0.165	0.023	0.042	
6/5/2019 17:55	12.3	102.2	0	0.206	0.179	0.033	0.164	0.023	0.041	
6/5/2019 17:55										42.43253;-76.49709
6/5/2019 17:56			0	0.206	0.178	0.033	0.157	0.023	0.04	
6/5/2019 17:57			0	0.206	0.176	0.034	0.155	0.023	0.041	
6/5/2019 17:58			0	0.206	0.175	0.034	0.147	0.023	0.041	
6/5/2019 17:59			0	0.206	0.173	0.034	0.151	0.023	0.05	
6/5/2019 18:00	12.3	99.2	0	0.206	0.17	0.035	0.152	0.023	0.046	
6/5/2019 18:00										42.43245;-76.49695
6/5/2019 18:01			0	0.206	0.168	0.035	0.158	0.023	0.041	
6/5/2019 18:02			0	0.206	0.166	0.035	0.157	0.023	0.04	
6/5/2019 18:03			0	0.206	0.164	0.036	0.15	0.023	0.04	
6/5/2019 18:04			0	0.206	0.162	0.036	0.154	0.023	0.04	
6/5/2019 18:05	12.3	115.4	0	0.206	0.16	0.036	0.142	0.023	0.04	
6/5/2019 18:05										42.43254;-76.49703
6/5/2019 18:06			0	0.206	0.158	0.037	0.151	0.024	0.04	
6/5/2019 18:07			0	0.206	0.156	0.037	0.148	0.024	0.04	
6/5/2019 18:08			0	0.206	0.154	0.037	0.15	0.024	0.05	
6/5/2019 18:09			0	0.206	0.153	0.038	0.142	0.024	0.041	
6/5/2019 18:10	12.3	101.2	0	0.206	0.152	0.038	0.13	0.024	0.044	
6/5/2019 18:10										42.43246;-76.49703
6/5/2019 18:11			0	0.206	0.15	0.038	0.143	0.024	0.044	
6/5/2019 18:12			0	0.206	0.149	0.038	0.146	0.024	0.04	
6/5/2019 18:13			0	0.206	0.148	0.039	0.143	0.024	0.041	
6/5/2019 18:14			0	0.206	0.147	0.039	0.131	0.024	0.04	
6/5/2019 18:15	12.3	109.3	0	0.206	0.146	0.039	0.137	0.024	0.042	
6/5/2019 18:15										42.43235;-76.49698
6/5/2019 18:16			0	0.206	0.145	0.04	0.139	0.025	0.087	
6/5/2019 18:17			0	0.206	0.144	0.04	0.14	0.025	0.043	
6/5/2019 18:18			0	0.206	0.143	0.04	0.135	0.025	0.044	
6/5/2019 18:19			0	0.206	0.142	0.04	0.138	0.025	0.043	
6/5/2019 18:20	12.3	107.3	0	0.206	0.141	0.041	0.142	0.025	0.041	
6/5/2019 18:20										42.43235;-76.49693
6/5/2019 18:21			0	0.206	0.141	0.041	0.137	0.025	0.041	
6/5/2019 18:22			0	0.206	0.14	0.041	0.148	0.025	0.04	
6/5/2019 18:23			0	0.206	0.139	0.042	0.123	0.025	0.04	
6/5/2019 18:24			0	0.206	0.139	0.042	0.136	0.025	0.04	
6/5/2019 18:25	12.3	100.2	0	0.206	0.138	0.042	0.147	0.025	0.039	
6/5/2019 18:25										42.43248;-76.49706
6/5/2019 18:26			0	0.206	0.138	0.043	0.145	0.025	0.039	
6/5/2019 18:27			0	0.206	0.138	0.043	0.135	0.025	0.04	
6/5/2019 18:28			0	0.206	0.138	0.043	0.137	0.026	0.045	
6/5/2019 18:29			0	0.206	0.137	0.043	0.145	0.026	0.045	
6/5/2019 18:30	12.3	101.2	0	0.206	0.137	0.044	0.14	0.026	0.042	
6/5/2019 18:30										42.43257;-76.49704
6/5/2019 18:31			0	0.206	0.137	0.044	0.143	0.026	0.041	
6/5/2019 18:32			0	0.206	0.137	0.044	0.136	0.026	0.039	
6/5/2019 18:33			0	0.206	0.137	0.044	0.137	0.026	0.04	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/5/2019 18:34			0	0.206	0.137	0.045	0.135	0.026	0.039	
6/5/2019 18:35	12.3	99.2	0	0.206	0.137	0.045	0.128	0.026	0.04	
6/5/2019 18:35										42.43252;-76.49714
6/5/2019 18:36			0	0.206	0.137	0.045	0.131	0.026	0.04	
6/5/2019 18:37			0	0.206	0.136	0.046	0.133	0.026	0.042	
6/5/2019 18:38			0	0.206	0.136	0.046	0.135	0.026	0.044	
6/5/2019 18:39			0	0.206	0.135	0.046	0.13	0.026	0.042	
6/5/2019 18:40	12.3	105.3	0	0.206	0.135	0.046	0.13	0.027	0.111	
6/5/2019 18:40										42.4325;-76.49722
6/5/2019 18:41			0	0.206	0.134	0.047	0.129	0.027	0.05	
6/5/2019 18:42			0	0.206	0.134	0.047	0.118	0.027	0.042	
6/5/2019 18:43			0	0.206	0.132	0.047	0.116	0.027	0.043	
6/5/2019 18:44			0	0.206	0.131	0.047	0.12	0.027	0.044	
6/5/2019 18:45	12.3	100.2	0	0.206	0.13	0.048	0.117	0.027	0.044	
6/5/2019 18:45										42.43252;-76.49724
6/5/2019 18:46			0	0.206	0.13	0.048	0.128	0.027	0.044	
6/5/2019 18:47			0	0.206	0.129	0.048	0.134	0.027	0.043	
6/5/2019 18:48			0	0.206	0.129	0.049	0.127	0.027	0.042	
6/5/2019 18:49			0	0.206	0.128	0.049	0.119	0.028	0.042	
6/5/2019 18:50	12.2	101.2	0	0.206	0.128	0.049	0.125	0.028	0.044	
6/5/2019 18:50										42.43244;-76.4972
6/5/2019 18:51			0	0.206	0.126	0.049	0.11	0.028	0.043	
6/5/2019 18:52			0	0.206	0.125	0.05	0.115	0.028	0.043	
6/5/2019 18:53			0	0.206	0.124	0.05	0.119	0.028	0.044	
6/5/2019 18:54			0	0.206	0.123	0.05	0.119	0.028	0.045	
6/5/2019 18:55	12.3	107.3	0	0.206	0.122	0.05	0.116	0.028	0.046	
6/5/2019 18:55										42.43237;-76.49714
6/5/2019 18:56			0	0.206	0.12	0.051	0.102	0.028	0.076	
6/5/2019 18:57			0	0.206	0.119	0.051	0.105	0.028	0.067	
6/5/2019 18:58			0	0.206	0.119	0.051	0.116	0.028	0.045	
6/5/2019 18:59			0	0.206	0.119	0.051	0.117	0.029	0.045	
6/5/2019 19:00	12.2	118.4	0	0.206	0.118	0.051	0.119	0.029	0.045	
6/5/2019 19:00										42.43234;-76.49729
6/5/2019 19:01			0	0.206	0.118	0.052	0.131	0.029	0.044	
6/5/2019 19:02			0	0.206	0.117	0.052	0.118	0.029	0.044	
6/5/2019 19:03			0	0.206	0.116	0.052	0.123	0.029	0.045	
6/5/2019 19:04			0	0.206	0.116	0.052	0.116	0.029	0.049	
6/5/2019 19:05	12.2	112.4	0	0.206	0.115	0.053	0.12	0.029	0.045	
6/5/2019 19:05										42.43246;-76.497
6/5/2019 19:06			0	0.206	0.115	0.053	0.107	0.029	0.044	
6/5/2019 19:07			0	0.206	0.115	0.053	0.12	0.029	0.044	
6/5/2019 19:08			0	0.206	0.114	0.053	0.118	0.029	0.045	
6/5/2019 19:09			0	0.206	0.115	0.054	0.121	0.03	0.043	
6/5/2019 19:10	12.2	107.3	0	0.206	0.115	0.054	0.109	0.03	0.043	
6/5/2019 19:10										42.43248;-76.49681
6/5/2019 19:11			0	0.206	0.116	0.054	0.137	0.03	0.045	
6/5/2019 19:12			0	0.216	0.116	0.054	0.116	0.03	0.132	
6/5/2019 19:13			0	0.216	0.117	0.055	0.111	0.03	0.043	
6/5/2019 19:14			0	0.216	0.117	0.055	0.108	0.03	0.042	
6/5/2019 19:15	12.2	110.3	0	0.216	0.116	0.055	0.105	0.03	0.05	
6/5/2019 19:15										42.43254;-76.49687
6/5/2019 19:16			0	0.216	0.116	0.055	0.108	0.03	0.042	
6/5/2019 19:17			0	0.216	0.115	0.056	0.116	0.03	0.042	
6/5/2019 19:18			0	0.216	0.115	0.056	0.103	0.031	0.064	
6/5/2019 19:19			0	0.216	0.114	0.056	0.12	0.031	0.046	
6/5/2019 19:20	12.2	105.3	0	0.216	0.114	0.056	0.109	0.031	0.13	
6/5/2019 19:20										42.43254;-76.49706
6/5/2019 19:21			0	0.216	0.114	0.056	0.103	0.031	0.06	
6/5/2019 19:22			0	0.216	0.113	0.057	0.108	0.031	0.043	
6/5/2019 19:23			0	0.216	0.113	0.057	0.117	0.031	0.039	
6/5/2019 19:24			0	0.216	0.112	0.057	0.108	0.031	0.039	
6/5/2019 19:25	12.2	105.3	0	0.216	0.111	0.057	0.11	0.031	0.039	
6/5/2019 19:25										42.43257;-76.49712
6/5/2019 19:26			0	0.216	0.111	0.058	0.101	0.031	0.038	
6/5/2019 19:27			0	0.216	0.109	0.058	0.113	0.032	0.039	
6/5/2019 19:28			0	0.216	0.109	0.058	0.114	0.032	0.039	
6/5/2019 19:29			0	0.216	0.108	0.058	0.098	0.032	0.038	
6/5/2019 19:30	12.2	104.3	0	0.216	0.107	0.059	0.121	0.032	0.041	
6/5/2019 19:30										42.43251;-76.49688
6/5/2019 19:31			0	0.216	0.107	0.059	0.101	0.032	0.038	
6/5/2019 19:32			0	0.216	0.107	0.059	0.096	0.032	0.038	
6/5/2019 19:33			0	0.216	0.107	0.059	0.109	0.032	0.039	
6/5/2019 19:34			0	0.216	0.106	0.059	0.1	0.032	0.039	
6/5/2019 19:35	12.2	109.3	0	0.216	0.105	0.06	0.11	0.032	0.038	
6/5/2019 19:35										42.4325;-76.49718
6/5/2019 19:36			0	0.216	0.105	0.06	0.101	0.032	0.083	
6/5/2019 19:37			0	0.216	0.105	0.06	0.09	0.032	0.05	
6/5/2019 19:38			0	0.216	0.104	0.06	0.11	0.033	0.042	
6/5/2019 19:39			0	0.216	0.104	0.06	0.091	0.033	0.04	
6/5/2019 19:40	12.2	110.3	0	0.216	0.103	0.061	0.103	0.033	0.042	
6/5/2019 19:40										42.4325;-76.49704
6/5/2019 19:41			0	0.216	0.102	0.061	0.099	0.033	0.042	
6/5/2019 19:42			0	0.216	0.101	0.061	0.108	0.033	0.042	
6/5/2019 19:43			0	0.216	0.101	0.061	0.105	0.033	0.044	
6/5/2019 19:44			0	0.216	0.101	0.062	0.102	0.033	0.042	
6/5/2019 19:45	12.2	100.2	0	0.216	0.101	0.062	0.099	0.033	0.043	
6/5/2019 19:45										42.43253;-76.49697
6/5/2019 19:46			0	0.216	0.101	0.062	0.107	0.033	0.042	
6/5/2019 19:47			0	0.216	0.101	0.062	0.108	0.033	0.042	
6/5/2019 19:48			0	0.216	0.101	0.062	0.098	0.033	0.043	
6/5/2019 19:49			0	0.216	0.101	0.063	0.095	0.034	0.04	
6/5/2019 19:50	12.2	101.2	0	0.216	0.101	0.063	0.08	0.034	0.04	
6/5/2019 19:50										42.43256;-76.49693
6/5/2019 19:51			0	0.216	0.1	0.063	0.11	0.034	0.039	
6/5/2019 19:52			0	0.216	0.1	0.063	0.11	0.034	0.038	
6/5/2019 19:53			0	0.216	0.101	0.063	0.104	0.034	0.038	
6/5/2019 19:54			0	0.216	0.1	0.064	0.109	0.034	0.039	
6/5/2019 19:55	12.2	101.2	0	0.216	0.101	0.064	0.101	0.034	0.038	
6/5/2019 19:55										42.43251;-76.49686
6/5/2019 19:56			0	0.216	0.102	0.064	0.099	0.034	0.038	
6/5/2019 19:57			0	0.216	0.102	0.064	0.09	0.034	0.039	
6/5/2019 19:58			0	0.216	0.101	0.065	0.067	0.034	0.04	
6/5/2019 19:59			0	0.216	0.099	0.065	0.074	0.034	0.042	
6/5/2019 20:00	12.2	100.2	0	0.216	0.097	0.065	0.064	0.034	0.043	
6/5/2019 20:00										42.43258;-76.49695
6/5/2019 20:01			0	0.216	0.095	0.065	0.069	0.035	0.043	
6/6/2019 15:34	12.7	116.4								
6/6/2019 15:35	12.7	98.2	0	0.084	0	0	0.009			42.43241;-76.49695
6/6/2019 15:36			0	0.084	0	0	0	0	0.027	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/6/2019 15:37			0	0.084	0	0	0	0	0.058	
6/6/2019 15:38			0	0.084	0	0	0	0	0.057	
6/6/2019 15:39			0	0.084	0	0	0	0	0.052	
6/6/2019 15:40	12.6	102.2	0	0.084	0	0	0	0	0.051	42.43237;-76.49697
6/6/2019 15:41			0	0.084	0	0	0	0	0.05	
6/6/2019 15:42			0	0.084	0	0	0	0	0.047	
6/6/2019 15:43			0	0.118	0	0	0.004	0	0.046	
6/6/2019 15:44			0	0.118	0	0	0	0	0.045	
6/6/2019 15:45	12.6	97.2	0	0.118	0	0	0	0	0.042	42.43242;-76.49696
6/6/2019 15:46			0	0.118	0	0	0	0	0.041	
6/6/2019 15:47			0	0.118	0	0	0	0	0.041	
6/6/2019 15:48			0	0.118	0	0	0	0	0.04	
6/6/2019 15:49			0	0.118	0.003	0	0	0	0.041	
6/6/2019 15:50	12.6	98.2	0	0.118	0.001	0	0	0	0.041	42.4324;-76.49687
6/6/2019 15:51			0	0.118	0	0	0	0.001	0.042	
6/6/2019 15:52			0	0.118	0	0	0	0.002	0.043	
6/6/2019 15:53			0	0.118	0	0	0	0.002	0.042	
6/6/2019 15:54			0	0.118	0	0	0	0.002	0.041	
6/6/2019 15:55	12.6	97.2	0	0.118	0	0	0	0.002	0.041	42.43247;-76.49698
6/6/2019 15:56			0	0.118	0	0	0	0.002	0.043	
6/6/2019 15:57			0	0.118	0	0	0	0.002	0.04	
6/6/2019 15:58			0	0.118	0	0	0	0.002	0.04	
6/6/2019 15:59			0	0.118	0	0	0	0.002	0.04	
6/6/2019 16:00	12.6	99.2	0	0.118	0	0	0	0.002	0.041	42.43238;-76.49685
6/6/2019 16:01			0	0.118	0	0	0	0.002	0.041	
6/6/2019 16:02			0	0.118	0	0	0	0.002	0.053	
6/6/2019 16:03			0	0.118	0	0	0	0.002	0.039	
6/6/2019 16:04			0	0.118	0	0	0	0.003	0.07	
6/6/2019 16:05	12.6	101.2	0	0.118	0	0	0	0.003	0.045	42.43248;-76.497
6/6/2019 16:06			0	0.118	0	0	0	0.003	0.039	
6/6/2019 16:07			0	0.118	0	0	0	0.003	0.039	
6/6/2019 16:08			0	0.118	0	0	0	0.003	0.039	
6/6/2019 16:09			0	0.118	0	0	0	0.003	0.038	
6/6/2019 16:10	12.6	103.2	0	0.118	0	0	0	0.003	0.038	42.43245;-76.49702
6/6/2019 16:11			0	0.118	0	0	0	0.003	0.038	
6/6/2019 16:12			0	0.118	0	0	0	0.003	0.038	
6/6/2019 16:13			0	0.118	0	0	0	0.003	0.037	
6/6/2019 16:14			0	0.118	0	0	0	0.003	0.037	
6/6/2019 16:15	12.6	110.3	0	0.118	0	0	0	0.004	0.038	42.43255;-76.49693
6/6/2019 16:16			0	0.118	0	0	0	0.004	0.038	
6/6/2019 16:17			0	0.118	0	0	0	0.004	0.039	
6/6/2019 16:18			0	0.118	0	0	0	0.004	0.037	
6/6/2019 16:19			0	0.118	0	0	0	0.004	0.037	
6/6/2019 16:20	12.6	117.4	0	0.118	0	0	0	0.004	0.037	42.43244;-76.49693
6/6/2019 16:21			0	0.118	0	0	0	0.004	0.037	
6/6/2019 16:22			0	0.118	0	0	0	0.004	0.037	
6/6/2019 16:23			0	0.118	0	0	0	0.004	0.036	
6/6/2019 16:24			0	0.118	0	0	0.001	0.004	0.037	
6/6/2019 16:25	12.6	106.3	0	0.118	0	0	0	0.004	0.037	42.43243;-76.49709
6/6/2019 16:26			0	0.118	0	0	0	0.004	0.037	
6/6/2019 16:27			0	0.118	0	0	0.001	0.004	0.037	
6/6/2019 16:28			0	0.118	0	0	0.003	0.005	0.037	
6/6/2019 16:29			0	0.118	0	0	0.001	0.005	0.037	
6/6/2019 16:30	12.6	104.3	0	0.118	0	0	0	0.005	0.039	42.43248;-76.49703
6/6/2019 16:31			0	0.118	0	0	0	0.005	0.037	
6/6/2019 16:32			0	0.118	0	0	0.002	0.005	0.037	
6/6/2019 16:33			0	0.118	0	0	0	0.005	0.037	
6/6/2019 16:34			0	0.118	0	0	0	0.005	0.038	
6/6/2019 16:35	12.6	98.2	0	0.118	0	0	0	0.005	0.039	42.43255;-76.49718
6/6/2019 16:36			0	0.118	0	0	0.004	0.005	0.039	
6/6/2019 16:37			0	0.118	0	0	0	0.005	0.039	
6/6/2019 16:38			0	0.118	0	0	0.003	0.005	0.039	
6/6/2019 16:39			0	0.118	0	0	0.002	0.005	0.039	
6/6/2019 16:40	12.5	111.3	0	0.118	0	0	0	0.005	0.039	42.43247;-76.49702
6/6/2019 16:41			0	0.118	0	0	0	0.006	0.039	
6/6/2019 16:42			0	0.118	0	0	0.011	0.006	0.04	
6/6/2019 16:43			0	0.118	0	0	0.006	0.006	0.039	
6/6/2019 16:44			0	0.118	0.001	0	0.01	0.006	0.039	
6/6/2019 16:45	12.5	98.2	0	0.118	0.001	0	0.003	0.006	0.038	42.43239;-76.49709
6/6/2019 16:46			0	0.118	0.001	0	0.009	0.006	0.037	
6/6/2019 16:47			0	0.118	0.001	0	0.003	0.006	0.037	
6/6/2019 16:48			0	0.118	0.001	0	0.006	0.006	0.037	
6/6/2019 16:49			0	0.118	0.002	0	0.004	0.006	0.037	
6/6/2019 16:50	12.5	103.2	0	0.118	0.003	0	0.01	0.006	0.038	42.43243;-76.49711
6/6/2019 16:51			0	0.118	0.003	0	0.021	0.006	0.037	
6/6/2019 16:52			0	0.118	0.005	0	0.018	0.006	0.037	
6/6/2019 16:53			0	0.118	0.006	0	0.017	0.007	0.037	
6/6/2019 16:54			0	0.118	0.007	0	0.024	0.007	0.038	
6/6/2019 16:55	12.5	107.3	0	0.118	0.008	0	0.017	0.007	0.037	42.43238;-76.49732
6/6/2019 16:56			0	0.118	0.009	0	0.02	0.007	0.039	
6/6/2019 16:57			0	0.118	0.01	0	0.02	0.007	0.036	
6/6/2019 16:58			0	0.118	0.011	0	0.02	0.007	0.036	
6/6/2019 16:59			0	0.118	0.012	0	0.028	0.007	0.038	
6/6/2019 17:00	12.5	98.2	0	0.118	0.013	0	0.045	0.007	0.043	42.43227;-76.49709
6/6/2019 17:01			0	0.118	0.016	0	0.028	0.007	0.035	
6/6/2019 17:02			0	0.118	0.018	0	0.03	0.007	0.035	
6/6/2019 17:03			0	0.118	0.02	0	0.041	0.007	0.035	
6/6/2019 17:04			0	0.118	0.021	0	0.032	0.007	0.035	
6/6/2019 17:05	12.5	104.3	0	0.118	0.023	0	0.038	0.007	0.037	42.43241;-76.49702
6/6/2019 17:06			0	0.118	0.024	0.001	0.034	0.008	0.037	
6/6/2019 17:07			0	0.118	0.025	0.001	0.025	0.008	0.036	
6/6/2019 17:08			0	0.118	0.025	0.001	0.031	0.008	0.035	
6/6/2019 17:09			0	0.118	0.027	0.001	0.031	0.008	0.036	
6/6/2019 17:10	12.5	100.2	0	0.118	0.027	0.001	0.025	0.008	0.035	42.43248;-76.49702
6/6/2019 17:11			0	0.118	0.029	0.001	0.034	0.008	0.035	
6/6/2019 17:12			0	0.118	0.03	0.001	0.051	0.008	0.034	
6/6/2019 17:13			0	0.118	0.031	0.001	0.044	0.008	0.032	
6/6/2019 17:14			0	0.118	0.033	0.001	0.032	0.008	0.032	
6/6/2019 17:15	12.5	98.2	0	0.118	0.033	0.001	0.038	0.008	0.032	42.43237;-76.49712
6/6/2019 17:16			0	0.118	0.033	0.001	0.046	0.008	0.032	
6/6/2019 17:17			0	0.118	0.033	0.001	0.044	0.008	0.032	
6/6/2019 17:18			0	0.118	0.034	0.001	0.054	0.008	0.032	
6/6/2019 17:19			0	0.118	0.035	0.001	0.048	0.008	0.032	
6/6/2019 17:20	12.5	98.2	0	0.118	0.036	0.002	0.047	0.008	0.031	42.43254;-76.49691
6/6/2019 17:21			0	0.118	0.037	0.002	0.047	0.009	0.031	
6/6/2019 17:22			0	0.118	0.038	0.002	0.042	0.009	0.031	
6/6/2019 17:23			0	0.118	0.039	0.002	0.046	0.009	0.032	
6/6/2019 17:24			0	0.118	0.041	0.002	0.049	0.009	0.033	
6/6/2019 17:25	12.5	100.2	0	0.118	0.042	0.002	0.061	0.009	0.032	42.4327;-76.49699

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/6/2019 17:26			0	0.118	0.044	0.002	0.055	0.009	0.031	
6/6/2019 17:27			0	0.118	0.045	0.002	0.045	0.009	0.03	
6/6/2019 17:28			0	0.118	0.046	0.002	0.07	0.009	0.037	
6/6/2019 17:29			0	0.118	0.046	0.003	0.044	0.009	0.036	
6/6/2019 17:30	12.5	98.2	0	0.118	0.048	0.003	0.058	0.009	0.031	42.43244;-76.49702
6/6/2019 17:31			0	0.118	0.049	0.003	0.055	0.009	0.032	
6/6/2019 17:32			0	0.118	0.05	0.003	0.055	0.009	0.035	
6/6/2019 17:33			0	0.118	0.051	0.003	0.053	0.009	0.032	
6/6/2019 17:34			0	0.118	0.051	0.003	0.054	0.009	0.03	
6/6/2019 17:35	12.5	103.2	0	0.118	0.052	0.003	0.063	0.009	0.03	42.4325;-76.49697
6/6/2019 17:36			0	0.118	0.052	0.003	0.064	0.01	0.031	
6/6/2019 17:37			0	0.118	0.053	0.003	0.071	0.01	0.033	
6/6/2019 17:38			0	0.118	0.055	0.004	0.054	0.01	0.033	
6/6/2019 17:39			0	0.118	0.055	0.004	0.065	0.01	0.03	
6/6/2019 17:40	12.5	104.3	0	0.118	0.056	0.004	0.053	0.01	0.031	42.43256;-76.4969
6/6/2019 17:41			0	0.118	0.056	0.004	0.055	0.01	0.03	
6/6/2019 17:42			0	0.118	0.056	0.004	0.054	0.01	0.03	
6/6/2019 17:43			0	0.118	0.056	0.004	0.051	0.01	0.041	
6/6/2019 17:44			0	0.118	0.056	0.004	0.05	0.01	0.033	
6/6/2019 17:45	12.5	103.2	0	0.118	0.057	0.004	0.055	0.01	0.031	42.43235;-76.49696
6/6/2019 17:46			0	0.118	0.057	0.005	0.061	0.01	0.031	
6/6/2019 17:47			0	0.118	0.057	0.005	0.063	0.01	0.031	
6/6/2019 17:48			0	0.118	0.057	0.005	0.052	0.01	0.031	
6/6/2019 17:49			0	0.118	0.057	0.005	0.064	0.01	0.032	
6/6/2019 17:50	12.5	106.3	0	0.118	0.058	0.005	0.071	0.01	0.031	42.43241;-76.49699
6/6/2019 17:51			0	0.118	0.059	0.005	0.062	0.011	0.033	
6/6/2019 17:52			0	0.118	0.059	0.005	0.061	0.011	0.032	
6/6/2019 17:53			0	0.118	0.059	0.005	0.067	0.011	0.032	
6/6/2019 17:54			0	0.118	0.06	0.006	0.079	0.011	0.033	
6/6/2019 17:55	12.5	99.2	0	0.118	0.061	0.006	0.069	0.011	0.032	42.43219;-76.49696
6/6/2019 17:56			0	0.118	0.062	0.006	0.088	0.011	0.036	
6/6/2019 17:57			0	0.492	0.064	0.006	0.492	0.011	0.044	
6/6/2019 17:58			0	0.492	0.067	0.006	0.073	0.011	0.081	
6/6/2019 17:59			0	0.492	0.068	0.006	0.057	0.011	0.031	
6/6/2019 18:00	12.5	101.2	0	0.492	0.069	0.007	0.084	0.011	0.03	42.43216;-76.49682
6/6/2019 18:01			0	0.492	0.07	0.007	0.067	0.011	0.029	
6/6/2019 18:02			0	0.492	0.071	0.007	0.076	0.011	0.028	
6/6/2019 18:03			0	0.492	0.072	0.007	0.084	0.011	0.029	
6/6/2019 18:04			0	0.492	0.073	0.007	0.083	0.012	0.026	
6/6/2019 18:05	12.5	113.4	0	0.492	0.074	0.007	0.074	0.012	0.025	42.43229;-76.49683
6/6/2019 18:06			0	0.492	0.074	0.008	0.076	0.012	0.024	
6/6/2019 18:07			0	0.492	0.075	0.008	0.073	0.012	0.024	
6/6/2019 18:08			0	0.492	0.076	0.008	0.083	0.012	0.027	
6/6/2019 18:09			0	0.492	0.076	0.008	0.074	0.012	0.025	
6/6/2019 18:10	12.5	101.2	0	0.492	0.076	0.008	0.099	0.012	0.025	42.43222;-76.49689
6/6/2019 18:11			0	0.492	0.077	0.008	0.081	0.012	0.025	
6/6/2019 18:12			0	0.492	0.077	0.009	0.083	0.012	0.025	
6/6/2019 18:13			0	0.492	0.075	0.009	0.08	0.012	0.024	
6/6/2019 18:14			0	0.492	0.076	0.009	0.084	0.012	0.025	
6/6/2019 18:15	12.5	97.2	0	0.492	0.077	0.009	0.08	0.012	0.026	42.43244;-76.49706
6/6/2019 18:16			0	0.492	0.078	0.009	0.088	0.012	0.026	
6/6/2019 18:17			0	0.492	0.079	0.009	0.079	0.012	0.026	
6/6/2019 18:18			0	0.492	0.08	0.01	0.078	0.012	0.026	
6/6/2019 18:19			0	0.492	0.081	0.01	0.081	0.012	0.031	
6/6/2019 18:20	12.5	99.2	0	0.492	0.081	0.01	0.098	0.012	0.026	42.43226;-76.49681
6/6/2019 18:21			0	0.492	0.081	0.01	0.089	0.012	0.022	
6/6/2019 18:22			0	0.492	0.082	0.01	0.088	0.012	0.021	
6/6/2019 18:23			0	0.492	0.083	0.01	0.086	0.013	0.023	
6/6/2019 18:24			0	0.492	0.084	0.011	0.096	0.013	0.022	
6/6/2019 18:25	12.5	109.3	0	0.492	0.085	0.011	0.093	0.013	0.021	42.43245;-76.49701
6/6/2019 18:26			0	0.492	0.085	0.011	0.095	0.013	0.023	
6/6/2019 18:27			0	0.492	0.086	0.011	0.083	0.013	0.029	
6/6/2019 18:28			0	0.492	0.086	0.011	0.096	0.013	0.024	
6/6/2019 18:29			0	0.492	0.087	0.012	0.095	0.013	0.02	
6/6/2019 18:30	12.5	101.2	0	0.492	0.088	0.012	0.097	0.013	0.022	42.43249;-76.49697
6/6/2019 18:31			0	0.492	0.089	0.012	0.099	0.013	0.02	
6/6/2019 18:32			0	0.492	0.09	0.012	0.095	0.013	0.026	
6/6/2019 18:33			0	0.492	0.09	0.012	0.093	0.013	0.021	
6/6/2019 18:34			0	0.492	0.091	0.013	0.089	0.013	0.026	
6/6/2019 18:35	12.4	108.3	0	0.492	0.092	0.013	0.095	0.013	0.021	42.43229;-76.49684
6/6/2019 18:36			0	0.492	0.093	0.013	0.093	0.013	0.021	
6/6/2019 18:37			0	0.492	0.093	0.013	0.088	0.013	0.023	
6/6/2019 18:38			0	0.492	0.093	0.013	0.094	0.013	0.025	
6/6/2019 18:39			0	0.492	0.093	0.014	0.1	0.013	0.025	
6/6/2019 18:40	12.4	98.2	0	0.492	0.094	0.014	0.1	0.013	0.022	42.43246;-76.49702
6/6/2019 18:41			0	0.492	0.094	0.014	0.094	0.013	0.022	
6/6/2019 18:42			0	0.492	0.095	0.014	0.088	0.013	0.024	
6/6/2019 18:43			0	0.492	0.095	0.014	0.091	0.013	0.027	
6/6/2019 18:44			0	0.492	0.094	0.015	0.101	0.014	0.022	
6/6/2019 18:45	12.4	109.3	0	0.492	0.094	0.015	0.099	0.014	0.023	42.43256;-76.49693
6/6/2019 18:46			0	0.492	0.094	0.015	0.09	0.014	0.025	
6/6/2019 18:47			0	0.492	0.094	0.015	0.106	0.014	0.024	
6/6/2019 18:48			0	0.492	0.095	0.015	0.109	0.014	0.025	
6/6/2019 18:49			0	0.492	0.095	0.016	0.089	0.014	0.025	
6/6/2019 18:50	12.4	105.3	0	0.492	0.095	0.016	0.098	0.014	0.025	42.43244;-76.49715
6/6/2019 18:51			0	0.492	0.096	0.016	0.104	0.014	0.023	
6/6/2019 18:52			0	0.492	0.096	0.016	0.106	0.014	0.024	
6/6/2019 18:53			0	0.492	0.097	0.016	0.094	0.014	0.024	
6/6/2019 18:54			0	0.492	0.097	0.017	0.106	0.014	0.024	
6/6/2019 18:55	12.5	99.2	0	0.492	0.097	0.017	0.1	0.014	0.021	42.43247;-76.49706
6/6/2019 18:56			0	0.492	0.097	0.017	0.106	0.014	0.105	
6/6/2019 18:57			0	0.492	0.098	0.017	0.09	0.014	0.023	
6/6/2019 18:58			0	0.492	0.099	0.017	0.11	0.014	0.02	
6/6/2019 18:59			0	0.492	0.1	0.018	0.1	0.014	0.019	
6/6/2019 19:00	12.4	105.3	0	0.492	0.1	0.018	0.131	0.015	0.077	42.43257;-76.49696
6/6/2019 19:01			0	0.492	0.101	0.018	0.111	0.015	0.076	
6/6/2019 19:02			0	0.492	0.102	0.018	0.111	0.015	0.023	
6/6/2019 19:03			0	0.492	0.102	0.019	0.116	0.015	0.035	
6/6/2019 19:04			0	0.492	0.103	0.019	0.109	0.015	0.021	
6/6/2019 19:05	12.4	100.2	0	0.492	0.104	0.019	0.11	0.015	0.02	42.43243;-76.49728
6/6/2019 19:06			0	0.492	0.105	0.019	0.118	0.015	0.027	
6/6/2019 19:07			0	0.492	0.106	0.02	0.117	0.015	0.022	
6/6/2019 19:08			0	0.492	0.106	0.02	0.106	0.015	0.022	
6/6/2019 19:09			0	0.492	0.107	0.02	0.107	0.015	0.062	
6/6/2019 19:10	12.4	104.3	0	0.492	0.108	0.02	0.105	0.015	0.075	42.43249;-76.49707
6/6/2019 19:11			0	0.492	0.109	0.02	0.108	0.015	0.023	
6/6/2019 19:12			0	0.492	0.108	0.021	0.111	0.015	0.024	
6/6/2019 19:13			0	0.492	0.11	0.021	0.101	0.016	0.031	
6/6/2019 19:14			0	0.492	0.11	0.021	0.111	0.016	0.023	

Community Air Monitoring Program - Downwind Station
May 15, 2019 to September 11, 2019

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/6/2019 19:15	12.4	97.2	0	0.492	0.11	0.021	0.118	0.016	0.022	42.43248;-76.49702
6/6/2019 19:16			0	0.492	0.11	0.022	0.118	0.016	0.02	
6/6/2019 19:17			0	0.492	0.11	0.022	0.123	0.016	0.02	
6/6/2019 19:18			0	0.492	0.111	0.022	0.125	0.016	0.202	
6/6/2019 19:19			0	0.492	0.112	0.022	0.129	0.016	0.017	
6/6/2019 19:20	12.4	100.2	0	0.492	0.113	0.023	0.14	0.016	0.03	42.43257;-76.49683
6/6/2019 19:21			0	0.492	0.114	0.023	0.133	0.016	0.017	
6/6/2019 19:22			0	0.492	0.116	0.023	0.135	0.016	0.017	
6/6/2019 19:23			0	0.492	0.117	0.023	0.131	0.016	0.018	
6/6/2019 19:24			0	0.492	0.118	0.024	0.123	0.016	0.035	
6/6/2019 19:25	12.4	113.4	0	0.492	0.119	0.024	0.128	0.016	0.027	42.43248;-76.49688
6/6/2019 19:26			0	0.492	0.12	0.024	0.127	0.017	0.021	
6/6/2019 19:27			0	0.492	0.12	0.024	0.118	0.017	0.021	
6/6/2019 19:28			0	0.492	0.12	0.025	0.113	0.017	0.021	
6/6/2019 19:29			0	0.492	0.12	0.025	0.104	0.017	0.022	
6/6/2019 19:30	12.4	107.3	0	0.492	0.121	0.025	0.103	0.017	0.023	42.43251;-76.49708
6/6/2019 19:31			0	0.492	0.12	0.025	0.114	0.017	0.024	
6/6/2019 19:32			0	0.492	0.12	0.026	0.117	0.017	0.025	
6/6/2019 19:33			0	0.492	0.119	0.026	0.104	0.017	0.025	
6/6/2019 19:34			0	0.492	0.117	0.026	0.095	0.017	0.023	
6/6/2019 19:35	12.4	103.2	0	0.492	0.116	0.026	0.102	0.017	0.024	42.43252;-76.49695
6/6/2019 19:36			0	0.492	0.114	0.026	0.105	0.017	0.027	
6/6/2019 19:37			0	0.492	0.112	0.027	0.098	0.017	0.025	
6/6/2019 19:38			0	0.492	0.11	0.027	0.107	0.017	0.024	
6/6/2019 19:39			0	0.492	0.108	0.027	0.093	0.017	0.023	
6/6/2019 19:40	12.4	120.5	0	0.492	0.107	0.027	0.113	0.017	0.024	42.43245;-76.4971
6/6/2019 19:41			0	0.492	0.105	0.028	0.105	0.017	0.121	
6/6/2019 19:42			0	0.492	0.105	0.028	0.101	0.018	0.025	
6/6/2019 19:43			0	0.492	0.104	0.028	0.097	0.018	0.027	
6/6/2019 19:44			0	0.492	0.103	0.028	0.102	0.018	0.024	
6/6/2019 19:45	12.4	100.2	0	0.492	0.103	0.028	0.106	0.018	0.024	42.43257;-76.49681
6/6/2019 19:46			0	0.492	0.103	0.029	0.107	0.018	0.024	
6/6/2019 19:47			0	0.492	0.103	0.029	0.109	0.018	0.029	
6/6/2019 19:48			0	0.492	0.102	0.029	0.102	0.018	0.029	
6/6/2019 19:49			0	0.492	0.102	0.029	0.092	0.018	0.026	
6/6/2019 19:50	12.4	103.2	0	0.492	0.103	0.029	0.098	0.018	0.031	42.43261;-76.49684
6/6/2019 19:51			0	0.492	0.103	0.03	0.106	0.018	0.029	
6/6/2019 19:52			0	0.492	0.103	0.03	0.112	0.018	0.031	
6/6/2019 19:53			0	0.492	0.103	0.03	0.117	0.018	0.03	
6/6/2019 19:54			0	0.492	0.104	0.03	0.106	0.018	0.027	
6/6/2019 19:55	12.4	104.3	0	0.492	0.105	0.031	0.115	0.018	0.097	42.43243;-76.49702
6/6/2019 19:56			0	0.492	0.105	0.031	0.127	0.018	0.028	
6/6/2019 19:57			0	0.492	0.106	0.031	0.124	0.019	0.029	
6/6/2019 19:58			0	0.492	0.107	0.031	0.123	0.019	0.102	
6/6/2019 19:59			0	0.492	0.108	0.032	0.126	0.019	0.093	
6/6/2019 20:00	12.4	99.2	0	0.492	0.109	0.032	0.121	0.019	0.033	42.43253;-76.49699
6/6/2019 20:01			0	0.492	0.11	0.032	0.115	0.019	0.063	
6/6/2019 20:02			0	0.492	0.11	0.032	0.111	0.019	0.03	
6/6/2019 20:03			0	0.492	0.111	0.032	0.11	0.019	0.025	
6/6/2019 20:04			0	0.492	0.111	0.033	0.105	0.019	0.027	
6/6/2019 20:05	12.4	106.3	0	0.492	0.112	0.033	0.114	0.019	0.026	42.43243;-76.49699
6/6/2019 20:06			0	0.492	0.113	0.033	0.124	0.019	0.055	
6/6/2019 20:07			0	0.492	0.113	0.033	0.121	0.02	0.035	
6/6/2019 20:08			0	0.492	0.114	0.034	0.117	0.02	0.021	
6/6/2019 20:09			0	0.492	0.114	0.034	0.106	0.02	0.022	
6/6/2019 20:10	12.4	105.3	0	0.492	0.114	0.034	0.122	0.02	0.021	42.43242;-76.49703
6/6/2019 20:11			0	0.492	0.115	0.034	0.135	0.02	0.022	
6/6/2019 20:12			0	0.492	0.116	0.035	0.116	0.02	0.021	
6/6/2019 20:13			0	0.492	0.115	0.035	0.115	0.02	0.02	
6/6/2019 20:14			0	0.492	0.115	0.035	0.121	0.02	0.023	
6/6/2019 20:15	12.3	99.2	0	0.492	0.116	0.035	0.117	0.02	0.022	42.43233;-76.49712
6/6/2019 20:16			0	0.492	0.116	0.036	0.113	0.02	0.027	
6/6/2019 20:17			0	0.492	0.116	0.036	0.12	0.02	0.021	
6/6/2019 20:18			0	0.492	0.117	0.036	0.131	0.02	0.021	
6/6/2019 20:19			0	0.492	0.118	0.036	0.119	0.02	0.02	
6/6/2019 20:20	12.3	98.2	0	0.492	0.118	0.037	0.133	0.02	0.02	42.43238;-76.49705
6/6/2019 20:21			0	0.492	0.119	0.037	0.126	0.02	0.02	
6/6/2019 20:22			0	0.492	0.119	0.037	0.12	0.02	0.022	
6/6/2019 20:23			0	0.492	0.119	0.037	0.117	0.02	0.02	
6/6/2019 20:24			0	0.492	0.119	0.038	0.123	0.02	0.02	
6/6/2019 20:25	12.3	104.3	0	0.492	0.12	0.038	0.121	0.02	0.035	42.43235;-76.49702
6/6/2019 20:26			0	0.492	0.121	0.038	0.122	0.02	0.023	
6/6/2019 20:27			0	0.492	0.121	0.038	0.131	0.02	0.024	
6/6/2019 20:28			0	0.492	0.122	0.039	0.127	0.021	0.023	
6/6/2019 20:29			0	0.492	0.123	0.039	0.136	0.021	0.064	
6/6/2019 20:30	12.3	99.2	0	0.492	0.124	0.039	0.124	0.021	0.024	42.43238;-76.49702
6/6/2019 20:31			0	0.492	0.125	0.04	0.123	0.021	0.029	
6/6/2019 20:32			0	0.492	0.125	0.04	0.126	0.021	0.025	
6/6/2019 20:33			0	0.492	0.125	0.04	0.122	0.021	0.02	
6/6/2019 20:34			0	0.492	0.125	0.04	0.131	0.021	0.024	
6/6/2019 20:35	12.3	103.2	0	0.492	0.126	0.041	0.132	0.021	0.02	42.43249;-76.49702
6/6/2019 20:36			0	0.492	0.126	0.041	0.13	0.021	0.023	
6/6/2019 20:37			0	0.492	0.126	0.041	0.135	0.021	0.029	
6/6/2019 20:38			0	0.492	0.128	0.041	0.141	0.021	0.023	
6/6/2019 20:39			0	0.492	0.129	0.042	0.136	0.021	0.02	
6/6/2019 20:40	12.3	106.3	0	0.492	0.129	0.042	0.13	0.021	0.023	42.43253;-76.49693
6/6/2019 20:41			0	0.492	0.13	0.042	0.139	0.021	0.021	
6/6/2019 20:42			0	0.492	0.13	0.043	0.129	0.021	0.019	
6/6/2019 20:43			0	0.492	0.13	0.043	0.13	0.021	0.018	
6/6/2019 20:44			0	0.492	0.13	0.043	0.127	0.021	0.021	
6/6/2019 20:45	12.3	100.2	0	0.492	0.13	0.043	0.127	0.021	0.02	42.43245;-76.4969
6/6/2019 20:46			0	0.492	0.13	0.044	0.121	0.021	0.02	
6/6/2019 20:47			0	0.492	0.13	0.044	0.127	0.021	0.018	
6/6/2019 20:48			0	0.492	0.131	0.044	0.136	0.022	0.019	
6/6/2019 20:49			0	0.492	0.131	0.044	0.127	0.022	0.022	
6/6/2019 20:50	12.3	99.2	0	0.492	0.132	0.045	0.13	0.022	0.022	42.43215;-76.49684
6/6/2019 20:51			0	0.492	0.132	0.045	0.142	0.022	0.03	
6/6/2019 20:52			0	0.492	0.133	0.045	0.144	0.022	0.023	
6/6/2019 20:53			0	0.492	0.134	0.046	0.151	0.022	0.017	
6/6/2019 20:54			0	0.492	0.135	0.046	0.15	0.022	0.017	
6/6/2019 20:55	12.3	109.3	0	0.492	0.136	0.046	0.146	0.022	0.032	42.43205;-76.49699
6/6/2019 20:56			0	0.492	0.137	0.047	0.141	0.022	0.019	
6/6/2019 20:57			0	0.492	0.137	0.047	0.14	0.022	0.02	
6/6/2019 20:58			0	0.492	0.138	0.047	0.155	0.022	0.021	
6/6/2019 20:59			0	0.492	0.139	0.047	0.144	0.022	0.017	
6/6/2019 21:00	12.3	99.2	0	0.492	0.14	0.048	0.143	0.022	0.017	42.43255;-76.49703
6/6/2019 21:01			0	0.492	0.141	0.048	0.147	0.022	0.019	
6/6/2019 21:02			0	0.492	0.142	0.048	0.151	0.022	0.041	
6/6/2019 21:03			0	0.492	0.143	0.049	0.159	0.022	0.026	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/6/2019 21:04			0	0.492	0.144	0.049	0.154	0.022	0.015	
6/6/2019 21:05	12.3	102.2	0	0.492	0.145	0.049	0.143	0.022	0.025	42.43218;-76.49691
6/6/2019 21:06			0	0.492	0.146	0.05	0.154	0.022	0.017	
6/6/2019 21:07			0	0.492	0.146	0.05	0.156	0.022	0.017	
6/6/2019 21:08			0	0.492	0.147	0.05	0.158	0.023	0.052	
6/6/2019 21:09			0	0.492	0.148	0.051	0.142	0.023	0.031	
6/6/2019 21:10	12.3	100.2	0	0.492	0.148	0.051	0.147	0.023	0.016	42.4321;-76.49726
6/6/2019 21:11			0	0.492	0.148	0.051	0.147	0.023	0.015	
6/6/2019 21:12			0	0.492	0.148	0.051	0.151	0.023	0.016	
6/6/2019 21:13			0	0.492	0.148	0.052	0.153	0.023	0.017	
6/6/2019 21:14			0	0.492	0.149	0.052	0.154	0.023	0.024	
6/6/2019 21:15	12.3	113.4	0	0.492	0.149	0.052	0.16	0.023	0.033	42.43216;-76.4972
6/6/2019 21:16			0	0.492	0.15	0.053	0.158	0.023	0.017	
6/6/2019 21:17			0	0.492	0.151	0.053	0.157	0.023	0.015	
6/6/2019 21:18			0	0.492	0.152	0.053	0.149	0.023	0.015	
6/6/2019 21:19			0	0.492	0.152	0.054	0.149	0.023	0.016	
6/6/2019 21:20	12.3	102.2	0	0.492	0.152	0.054	0.161	0.023	0.028	42.43244;-76.49702
6/6/2019 21:21			0	0.492	0.153	0.054	0.154	0.023	0.022	
6/6/2019 21:22			0	0.492	0.153	0.055	0.158	0.023	0.022	
6/6/2019 21:23			0	0.492	0.153	0.055	0.17	0.023	0.015	
6/6/2019 21:24			0	0.492	0.153	0.055	0.162	0.023	0.013	
6/6/2019 21:25	12.3	101.2	0	0.492	0.154	0.056	0.156	0.023	0.018	42.43269;-76.49691
6/6/2019 21:26			0	0.492	0.155	0.056	0.156	0.023	0.022	
6/6/2019 21:27			0	0.492	0.156	0.056	0.148	0.023	0.023	
6/6/2019 21:28			0	0.492	0.156	0.057	0.152	0.023	0.064	
6/6/2019 21:29			0	0.492	0.157	0.057	0.151	0.023	0.014	
6/6/2019 21:30	12.2	100.2	0	0.492	0.157	0.057	0.148	0.023	0.016	42.43268;-76.49688
6/7/2019 10:14	12.6	114.4								
6/7/2019 10:15	12.6	125.5	0	0	0	0	0			
6/7/2019 10:16			0	0	0	0	0			
6/7/2019 10:17			0	0	0	0	0	0	0.012	
6/7/2019 10:18			0	0	0	0	0	0	0.016	
6/7/2019 10:19			0	0	0	0	0	0	0.014	
6/7/2019 10:20	12.6	97.2	0	0	0	0	0	0	0.016	42.43249;-76.49693
6/7/2019 10:21			0	0	0	0	0	0	0.132	
6/7/2019 10:22			0	0.036	0	0	0	0	0.057	
6/7/2019 10:23			0	0.036	0	0	0	0	0.015	
6/7/2019 10:24			0	0.036	0	0	0	0	0.014	
6/7/2019 10:25	12.5	99.2	0	0.036	0	0	0	0	0.019	42.43252;-76.49688
6/7/2019 10:26			0	0.036	0	0	0	0	0.022	
6/7/2019 10:27			0	0.036	0	0	0	0	0.042	
6/7/2019 10:28			0	0.036	0	0	0	0	0.023	
6/7/2019 10:29			0	0.036	0	0	0	0	0.165	
6/7/2019 10:30	12.5	97.2	0	0.036	0	0	0	0	0.042	42.43251;-76.49687
6/7/2019 10:31			0	0.036	0	0	0	0	0.096	
6/7/2019 10:32			0	0.036	0	0	0	0.002	0.236	
6/7/2019 10:33			0	0.036	0	0	0	0.002	0.034	
6/7/2019 10:34			0	0.036	0	0	0	0.002	0.012	
6/7/2019 10:35	12.5	109.3	0	0.036	0	0	0	0.002	0.011	42.43241;-76.49687
6/7/2019 10:36			0	0.036	0	0	0	0.002	0.011	
6/7/2019 10:37			0	0.036	0	0	0	0.002	0.038	
6/7/2019 10:38			0	0.036	0	0	0	0.002	0.015	
6/7/2019 10:39			0	0.036	0	0	0	0.002	0.024	
6/7/2019 10:40	12.5	103.2	0	0.036	0	0	0	0.002	0.014	42.43241;-76.49694
6/7/2019 10:41			0	0.036	0	0	0	0.002	0.015	
6/7/2019 10:42			0	0.036	0	0	0	0.002	0.054	
6/7/2019 10:43			0	0.036	0	0	0	0.002	0.046	
6/7/2019 10:44			0	0.036	0	0	0	0.003	0.024	
6/7/2019 10:45	12.5	97.2	0	0.036	0	0	0	0.003	0.014	42.4324;-76.49698
6/7/2019 10:46			0	0.036	0	0	0	0.003	0.015	
6/7/2019 10:47			0	0.036	0	0	0	0.003	0.018	
6/7/2019 10:48			0	0.036	0	0	0	0.003	0.011	
6/7/2019 10:49			0	0.036	0	0	0	0.003	0.011	
6/7/2019 10:50	12.5	96.2	0	0.036	0	0	0	0.003	0.012	42.43253;-76.49694
6/7/2019 10:51			0	0.036	0	0	0	0.003	0.011	
6/7/2019 10:52			0	0.036	0	0	0	0.003	0.011	
6/7/2019 10:53			0	0.036	0	0	0	0.003	0.011	
6/7/2019 10:54			0	0.036	0	0	0	0.003	0.011	
6/7/2019 10:55	12.5	103.2	0	0.036	0	0	0	0.003	0.014	42.43245;-76.49696
6/7/2019 10:56			0	0.036	0	0	0	0.003	0.014	
6/7/2019 10:57			0	0.036	0	0	0	0.003	0.011	
6/7/2019 10:58			0	0.036	0	0	0	0.003	0.011	
6/7/2019 10:59			0	0.036	0	0	0	0.003	0.01	
6/7/2019 11:00	12.5	99.2	0	0.036	0	0	0	0.003	0.011	42.43243;-76.49696
6/7/2019 11:01			0	0.036	0	0	0	0.003	0.031	
6/7/2019 11:02			0	0.036	0	0	0	0.003	0.025	
6/7/2019 11:03			0	0.036	0	0	0	0.003	0.015	
6/7/2019 11:04			0	0.036	0	0	0	0.003	0.039	
6/7/2019 11:05	12.5	98.2	0	0.036	0	0	0	0.003	0.02	42.43238;-76.4972
6/7/2019 11:06			0	0.036	0	0	0	0.003	0.011	
6/7/2019 11:07			0	0.036	0	0	0	0.003	0.014	
6/7/2019 11:08			0	0.036	0	0	0	0.003	0.014	
6/7/2019 11:09			0	0.036	0	0	0	0.003	0.014	
6/7/2019 11:10	12.5	107.3	0	0.036	0	0	0	0.003	0.013	42.43241;-76.497
6/7/2019 11:11			0	0.036	0	0	0	0.003	0.013	
6/7/2019 11:12			0	0.036	0	0	0	0.003	0.012	
6/7/2019 11:13			0	0.036	0	0	0	0.003	0.012	
6/7/2019 11:14			0	0.036	0	0	0	0.003	0.012	
6/7/2019 11:15	12.5	105.3	0	0.036	0	0	0	0.003	0.012	42.43234;-76.49698
6/7/2019 11:16			0	0.036	0	0	0	0.003	0.012	
6/7/2019 11:17			0	0.036	0	0	0	0.004	0.012	
6/7/2019 11:18			0	0.036	0	0	0	0.004	0.012	
6/7/2019 11:19			0	0.036	0	0	0	0.004	0.012	
6/7/2019 11:20	12.5	96.2	0	0.036	0	0	0	0.004	0.012	42.43246;-76.49693
6/7/2019 11:21			0	0.036	0	0	0	0.004	0.012	
6/7/2019 11:22			0	0.036	0	0	0	0.004	0.012	
6/7/2019 11:23			0	0.036	0	0	0	0.004	0.012	
6/7/2019 11:24			0	0.036	0	0	0	0.004	0.024	
6/7/2019 11:25	12.5	97.2	0	0.036	0	0	0	0.004	0.017	42.43247;-76.49687
6/7/2019 11:26			0	0.036	0	0	0	0.004	0.016	
6/7/2019 11:27			0	0.036	0	0	0	0.004	0.013	
6/7/2019 11:28			0	0.036	0	0	0	0.004	0.012	
6/7/2019 11:29			0	0.036	0	0	0	0.004	0.012	
6/7/2019 11:30	12.5	102.2	0	0.036	0	0	0	0.004	0.012	42.43238;-76.49693
6/7/2019 11:31			0	0.037	0	0	0	0.004	0.021	
6/7/2019 11:32			0	0.037	0	0	0	0.004	0.017	
6/7/2019 11:33			0	0.037	0	0	0	0.004	0.014	
6/7/2019 11:34			0	0.037	0	0	0	0.004	0.013	
6/7/2019 11:35	12.5	106.3	0	0.037	0	0	0	0.004	0.012	42.4324;-76.497

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/7/2019 11:36			0	0.037	0	0	0	0.004	0.012	
6/7/2019 11:37			0	0.037	0	0	0	0.004	0.038	
6/7/2019 11:38			0	0.037	0	0	0	0.004	0.113	
6/7/2019 11:39			0	0.037	0	0	0	0.004	0.018	
6/7/2019 11:40	12.4	101.2	0	0.037	0	0	0	0.004	0.013	42.43242;-76.497
6/7/2019 11:41			0	0.037	0	0	0	0.004	0.012	
6/7/2019 11:42			0	0.037	0	0	0	0.005	0.012	
6/7/2019 11:43			0	0.037	0	0	0	0.005	0.012	
6/7/2019 11:44			0	0.037	0	0	0	0.005	0.012	
6/7/2019 11:45	12.5	108.3	0	0.037	0	0	0	0.005	0.012	42.43239;-76.49699
6/7/2019 11:46			0	0.037	0	0	0	0.005	0.013	
6/7/2019 11:47			0	0.037	0	0	0	0.005	0.012	
6/7/2019 11:48			0	0.037	0	0	0	0.005	0.012	
6/7/2019 11:49			0	0.037	0	0	0	0.005	0.012	
6/7/2019 11:50	12.5	116.4	0	0.037	0	0	0	0.005	0.012	42.43236;-76.49699
6/7/2019 11:51			0	0.037	0	0	0	0.005	0.012	
6/7/2019 11:52			0	0.037	0	0	0	0.005	0.012	
6/7/2019 11:53			0	0.037	0	0	0	0.005	0.019	
6/7/2019 11:54			0	0.037	0	0	0	0.005	0.017	
6/7/2019 11:55	12.5	98.2	0	0.037	0	0	0	0.005	0.013	42.43241;-76.49695
6/7/2019 11:56			0	0.037	0	0	0	0.005	0.012	
6/7/2019 11:57			0	0.037	0	0	0	0.005	0.012	
6/7/2019 11:58			0	0.037	0	0	0	0.005	0.012	
6/7/2019 11:59			0	0.037	0	0	0	0.005	0.013	
6/7/2019 12:00	12.4	113.4	0	0.037	0	0	0	0.005	0.013	42.43233;-76.4972
6/7/2019 12:01			0	0.037	0	0	0	0.005	0.013	
6/7/2019 12:02			0	0.037	0	0	0	0.005	0.012	
6/7/2019 12:03			0	0.037	0	0	0	0.005	0.012	
6/7/2019 12:04			0	0.043	0	0	0	0.005	0.043	
6/7/2019 12:05	12.4	99.2	0	0.043	0	0	0	0.005	0.031	42.4324;-76.49706
6/7/2019 12:06			0	0.043	0	0	0	0.005	0.025	
6/7/2019 12:07			0	0.043	0	0	0	0.005	0.021	
6/7/2019 12:08			0	0.043	0	0	0	0.006	0.341	
6/7/2019 12:09			0	0.043	0	0	0	0.006	0.143	
6/7/2019 12:10	12.4	99.2	0	0.043	0	0	0	0.007	0.237	42.43248;-76.49691
6/7/2019 12:11			0	0.043	0	0	0	0.007	0.017	
6/7/2019 12:12			0	0.043	0	0	0	0.007	0.059	
6/7/2019 12:13			0	0.043	0	0	0	0.007	0.012	
6/7/2019 12:14			0	0.043	0	0	0	0.007	0.012	
6/7/2019 12:15	12.4	97.2	0	0.043	0	0	0	0.007	0.011	42.43246;-76.49699
6/7/2019 12:16			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:17			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:18			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:19			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:20	12.4	97.2	0	0.043	0	0	0	0.007	0.01	42.43247;-76.49694
6/7/2019 12:21			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:22			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:23			0	0.043	0	0	0	0.007	0.012	
6/7/2019 12:24			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:25	12.4	98.2	0	0.043	0	0	0	0.007	0.011	42.43248;-76.49694
6/7/2019 12:26			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:27			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:28			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:29			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:30	12.4	97.2	0	0.043	0	0	0	0.007	0.011	42.4325;-76.49687
6/7/2019 12:31			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:32			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:33			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:34			0	0.043	0	0	0	0.007	0.011	
6/7/2019 12:35	12.4	98.2	0	0.043	0	0	0	0.008	0.012	42.4325;-76.49696
6/7/2019 12:36			0	0.043	0	0	0	0.008	0.012	
6/7/2019 12:37			0	0.043	0	0	0	0.008	0.012	
6/7/2019 12:38			0	0.043	0	0	0	0.008	0.012	
6/7/2019 12:39			0	0.199	0.001	0	0.002	0.008	0.042	
6/7/2019 12:40	12.4	99.2	0	0.199	0.001	0	0	0.008	0.02	42.43259;-76.49684
6/7/2019 12:41			0	0.199	0.001	0	0	0.008	0.012	
6/7/2019 12:42			0	0.199	0.001	0	0	0.008	0.012	
6/7/2019 12:43			0	0.199	0.001	0	0	0.008	0.012	
6/7/2019 12:44			0	0.199	0.001	0	0	0.008	0.012	
6/7/2019 12:45	12.3	97.2	0	0.199	0.001	0	0	0.008	0.011	42.43262;-76.49677
6/7/2019 12:46			0	0.199	0.001	0	0	0.008	0.011	
6/7/2019 12:47			0	0.199	0.001	0	0	0.008	0.029	
6/7/2019 12:48			0	0.199	0.001	0	0	0.008	0.017	
6/7/2019 12:49			0	0.199	0.001	0	0	0.008	0.011	
6/7/2019 12:50	12.3	108.3	0	0.199	0.001	0	0	0.008	0.011	42.43253;-76.49697
6/7/2019 12:51			0	0.199	0.001	0	0	0.008	0.011	
6/7/2019 12:52			0	0.199	0.001	0	0	0.008	0.01	
6/7/2019 12:53			0	0.199	0.001	0	0	0.008	0.011	
6/7/2019 12:54			0	0.199	0	0	0	0.008	0.011	
6/7/2019 12:55	12.3	107.3	0	0.199	0	0	0	0.008	0.01	42.4326;-76.49693
6/7/2019 12:56			0	0.199	0	0	0	0.008	0.011	
6/7/2019 12:57			0	0.199	0	0	0	0.008	0.011	
6/7/2019 12:58			0	0.199	0	0	0	0.008	0.011	
6/7/2019 12:59			0	0.199	0	0	0	0.008	0.011	
6/7/2019 13:00	12.3	103.2	0	0.199	0	0	0	0.008	0.01	42.43262;-76.49689
6/7/2019 13:01			0	0.199	0	0	0	0.008	0.011	
6/7/2019 13:02			0	0.199	0	0	0	0.008	0.011	
6/7/2019 13:03			0	0.199	0	0	0	0.008	0.011	
6/7/2019 13:04			0	0.199	0	0	0	0.008	0.011	
6/7/2019 13:05	12.3	108.3	0	0.199	0	0	0	0.008	0.011	42.4326;-76.49705
6/7/2019 13:06			0	0.199	0	0	0	0.008	0.011	
6/7/2019 13:07			0	0.199	0	0	0	0.008	0.011	
6/7/2019 13:08			0	0.199	0	0	0	0.008	0.012	
6/7/2019 13:09			0	0.199	0	0	0	0.008	0.012	
6/7/2019 13:10	12.2	100.2	0	0.199	0	0	0	0.008	0.011	42.43246;-76.49708
6/7/2019 13:11			0	0.199	0	0	0	0.008	0.012	
6/7/2019 13:12			0	0.199	0	0	0	0.009	0.012	
6/7/2019 13:13			0	0.199	0	0	0	0.009	0.019	
6/7/2019 13:14			0	0.199	0	0	0	0.009	0.018	
6/7/2019 13:15	12.2	99.2	0	0.199	0	0	0	0.009	0.019	42.43269;-76.49702
6/7/2019 13:16			0	0.199	0	0	0	0.009	0.061	
6/7/2019 13:17			0	0.199	0	0	0	0.009	0.024	
6/7/2019 13:18			0	0.199	0	0	0	0.009	0.015	
6/7/2019 13:19			0	0.199	0	0	0	0.009	0.014	
6/7/2019 13:20	12.2	116.4	0	0.199	0	0	0	0.009	0.015	42.43253;-76.49687
6/7/2019 13:21			0	0.199	0	0	0	0.009	0.017	
6/7/2019 13:22			0	0.199	0	0	0	0.009	0.016	
6/7/2019 13:23			0	0.199	0	0	0	0.009	0.016	
6/7/2019 13:24			0	0.199	0	0	0.005	0.009	0.025	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/7/2019 13:25	12.2	114.4	0	0.199	0	0	0	0.009	0.024	42.43248;-76.49689
6/7/2019 13:26			0	0.199	0	0	0.003	0.009	0.027	
6/7/2019 13:27			0	0.199	0	0	0	0.009	0.026	
6/7/2019 13:28			0	0.199	0	0	0	0.009	0.038	
6/7/2019 13:29			0	0.199	0	0	0	0.009	0.014	
6/7/2019 13:30	12.2	99.2	0	0.199	0	0	0.001	0.009	0.014	42.43245;-76.49687
6/7/2019 13:31			0	0.199	0	0	0	0.009	0.013	
6/7/2019 13:32			0	0.199	0	0	0	0.009	0.013	
6/7/2019 13:33			0	0.199	0	0	0	0.009	0.012	
6/7/2019 13:34			0	0.199	0	0	0	0.009	0.015	
6/7/2019 13:35	12.2	105.3	0	0.199	0	0	0	0.009	0.015	42.43252;-76.49699
6/7/2019 13:36			0	0.199	0	0	0	0.01	0.017	
6/7/2019 13:37			0	0.199	0	0	0.006	0.01	0.034	
6/7/2019 13:38			0	0.199	0	0	0.014	0.01	0.028	
6/7/2019 13:39			0	0.199	0.001	0	0.033	0.01	0.049	
6/7/2019 13:40	12.2	102.2	0	0.199	0.004	0	0.065	0.01	0.04	42.43244;-76.49699
6/7/2019 13:41			0	0.199	0.006	0	0.024	0.01	0.052	
6/7/2019 13:42			0	0.199	0.008	0	0.021	0.01	0.029	
6/7/2019 13:43			0	0.199	0.009	0	0.029	0.01	0.05	
6/7/2019 13:44			0	0.199	0.012	0	0.065	0.01	0.048	
6/7/2019 13:45	12.2	102.2	0	0.199	0.015	0	0.035	0.01	0.014	42.43246;-76.497
6/7/2019 13:46			0	0.199	0.017	0	0.03	0.01	0.013	
6/7/2019 13:47			0	0.199	0.019	0	0.022	0.01	0.013	
6/7/2019 13:48			0	0.199	0.02	0	0.028	0.01	0.03	
6/7/2019 13:49			0	0.199	0.022	0	0.022	0.01	0.014	
6/7/2019 13:50	12.1	123.5	0	0.199	0.024	0	0.023	0.01	0.014	42.43248;-76.49702
6/7/2019 13:51			0	0.199	0.026	0	0.038	0.01	0.014	
6/7/2019 13:52			0	0.199	0.028	0	0.025	0.01	0.014	
6/7/2019 13:53			0	0.199	0.029	0.001	0.019	0.01	0.015	
6/7/2019 13:54			0	0.199	0.03	0.001	0.054	0.011	0.017	
6/7/2019 13:55	12.2	99.2	0	0.199	0.029	0.001	0.034	0.011	0.016	42.43247;-76.49714
6/7/2019 13:56			0	0.199	0.029	0.001	0.017	0.011	0.015	
6/7/2019 13:57			0	0.199	0.03	0.001	0.043	0.011	0.022	
6/7/2019 13:58			0	0.199	0.031	0.001	0.016	0.011	0.016	
6/7/2019 13:59			0	0.199	0.03	0.001	0.034	0.011	0.016	
6/7/2019 14:00	12.2	108.3	0	0.199	0.03	0.001	0.047	0.011	0.017	42.43248;-76.49698
6/7/2019 14:01			0	0.199	0.03	0.001	0.026	0.011	0.014	
6/7/2019 14:02			0	0.199	0.031	0.001	0.026	0.011	0.015	
6/7/2019 14:03			0	0.199	0.031	0.001	0.049	0.011	0.023	
6/7/2019 14:04			0	0.199	0.032	0.001	0.06	0.011	0.033	
6/7/2019 14:05	12.2	100.2	0	0.199	0.033	0.001	0.028	0.011	0.018	42.43242;-76.49703
6/7/2019 14:06			0	0.199	0.033	0.001	0.049	0.011	0.014	
6/7/2019 14:07			0	0.199	0.034	0.002	0.039	0.011	0.015	
6/7/2019 14:08			0	0.199	0.034	0.002	0.053	0.011	0.048	
6/7/2019 14:09			0	0.199	0.035	0.002	0.034	0.011	0.038	
6/7/2019 14:10	12.2	101.2	0	0.199	0.035	0.002	0.039	0.011	0.024	42.4325;-76.49709
6/7/2019 14:11			0	0.199	0.035	0.002	0.043	0.011	0.02	
6/7/2019 14:12			0	0.199	0.035	0.002	0.084	0.011	0.028	
6/7/2019 14:13			0	0.199	0.036	0.002	0.024	0.011	0.025	
6/7/2019 14:14			0	0.199	0.037	0.002	0.023	0.011	0.017	
6/7/2019 14:15	12.2	100.2	0	0.199	0.038	0.002	0.046	0.011	0.022	42.43261;-76.49712
6/7/2019 14:16			0	0.199	0.039	0.002	0.03	0.012	0.014	
6/7/2019 14:17			0	0.199	0.039	0.002	0.026	0.012	0.02	
6/7/2019 14:18			0	0.199	0.04	0.002	0.038	0.012	0.085	
6/7/2019 14:19			0	0.199	0.04	0.003	0.047	0.012	0.097	
6/7/2019 14:20	12.2	107.3	0	0.199	0.042	0.003	0.05	0.013	0.34	42.4327;-76.49718
6/7/2019 14:21			0	0.199	0.044	0.003	0.076	0.013	0.254	
6/7/2019 14:22			0	0.199	0.046	0.003	0.065	0.013	0.097	
6/7/2019 14:23			0	0.199	0.049	0.003	0.068	0.013	0.059	
6/7/2019 14:24			0	0.199	0.052	0.003	0.074	0.014	0.044	
6/7/2019 14:25	12.2	101.2	0	0.199	0.054	0.003	0.071	0.014	0.024	42.43264;-76.49702
6/7/2019 14:26			0	0.199	0.056	0.004	0.071	0.014	0.029	
6/7/2019 14:27			0	0.199	0.058	0.004	0.047	0.014	0.014	
6/7/2019 14:28			0	0.199	0.059	0.004	0.067	0.014	0.014	
6/7/2019 14:29			0	0.199	0.06	0.004	0.058	0.014	0.014	
6/7/2019 14:30	12.2	101.2	0	0.199	0.06	0.004	0.053	0.014	0.014	42.43242;-76.49678
6/7/2019 14:31			0	0.199	0.061	0.004	0.057	0.014	0.014	
6/7/2019 14:32			0	0.199	0.063	0.004	0.094	0.014	0.013	
6/7/2019 14:33			0	0.199	0.065	0.005	0.063	0.014	0.014	
6/7/2019 14:34			0	0.199	0.066	0.005	0.075	0.014	0.015	
6/7/2019 14:35	12.1	117.4	0	0.199	0.066	0.005	0.083	0.014	0.014	42.43242;-76.49677
6/7/2019 14:36			0	0.199	0.067	0.005	0.081	0.014	0.013	
6/7/2019 14:37			0	0.199	0.066	0.005	0.056	0.014	0.013	
6/7/2019 14:38			0	0.199	0.067	0.005	0.085	0.014	0.016	
6/7/2019 14:39			0	0.199	0.066	0.005	0.073	0.014	0.014	
6/7/2019 14:40	12.2	118.4	0	0.199	0.066	0.006	0.077	0.014	0.015	42.43252;-76.497
6/7/2019 14:41			0	0.199	0.067	0.006	0.085	0.014	0.018	
6/7/2019 14:42			0	0.199	0.067	0.006	0.07	0.014	0.025	
6/7/2019 14:43			0	0.207	0.069	0.006	0.066	0.014	0.052	
6/7/2019 14:44			0	0.207	0.071	0.006	0.113	0.014	0.034	
6/7/2019 14:45	12.1	105.3	0	0.207	0.073	0.006	0.044	0.014	0.034	42.43243;-76.49706
6/7/2019 14:46			0	0.207	0.073	0.007	0.09	0.014	0.033	
6/7/2019 14:47			0	0.207	0.075	0.007	0.078	0.015	0.026	
6/7/2019 14:48			0	0.207	0.075	0.007	0.087	0.015	0.023	
6/7/2019 14:49			0	0.207	0.076	0.007	0.09	0.015	0.023	
6/7/2019 14:50	12.1	100.2	0	0.207	0.077	0.007	0.107	0.015	0.025	42.43246;-76.49712
6/7/2019 14:51			0	0.207	0.078	0.007	0.107	0.015	0.059	
6/7/2019 14:52			0	0.207	0.08	0.008	0.114	0.015	0.028	
6/7/2019 14:53			0	0.207	0.083	0.008	0.132	0.015	0.038	
6/7/2019 14:54			0	0.207	0.086	0.008	0.12	0.015	0.014	
6/7/2019 14:55	12.1	114.4	0	0.207	0.089	0.008	0.127	0.015	0.036	42.43243;-76.49699
6/7/2019 14:56			0	0.207	0.092	0.009	0.141	0.015	0.112	
6/7/2019 14:57			0	0.207	0.095	0.009	0.142	0.015	0.024	
6/7/2019 14:58			0	0.207	0.098	0.009	0.127	0.015	0.018	
6/7/2019 14:59			0	0.207	0.1	0.009	0.141	0.015	0.013	
6/7/2019 15:00	12.1	106.3	0	0.207	0.104	0.01	0.148	0.015	0.013	42.43253;-76.49684
6/7/2019 15:01			0	0.207	0.108	0.01	0.132	0.015	0.013	
6/7/2019 15:02			0	0.207	0.111	0.01	0.135	0.016	0.021	
6/7/2019 15:03			0	0.207	0.115	0.01	0.147	0.016	0.033	
6/7/2019 15:04			0	0.207	0.119	0.011	0.161	0.016	0.04	
6/7/2019 15:05	12.1	103.2	0	0.207	0.123	0.011	0.155	0.016	0.027	42.4324;-76.49686
6/7/2019 15:06			0	0.207	0.127	0.011	0.185	0.016	0.018	
6/7/2019 15:07			0	0.207	0.131	0.012	0.166	0.016	0.014	
6/7/2019 15:08			0	0.319	0.136	0.012	0.236	0.017	0.416	
6/7/2019 15:09			0	0.324	0.145	0.013	0.238	0.017	0.147	
6/7/2019 15:10	12.1	106.3	0	0.324	0.153	0.013	0.267	0.017	0.038	42.43241;-76.49689
6/7/2019 15:11			0	0.324	0.163	0.014	0.254	0.017	0.126	
6/7/2019 15:12			0	0.324	0.171	0.014	0.219	0.018	0.112	
6/7/2019 15:13			0	0.324	0.177	0.015	0.225	0.019	0.474	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/7/2019 15:14			0	0.324	0.182	0.015	0.197	0.019	0.107	
6/7/2019 15:15	12.1	106.3	0	0.324	0.186	0.015	0.176	0.019	0.061	42.43246;-76.49691
6/7/2019 15:16			0	0.324	0.189	0.016	0.182	0.019	0.129	
6/7/2019 15:17			0	0.324	0.193	0.016	0.222	0.019	0.054	
6/7/2019 15:18			0	0.324	0.196	0.017	0.191	0.019	0.036	
6/7/2019 15:19			0	0.324	0.199	0.017	0.225	0.019	0.025	
6/7/2019 15:20	12.1	103.2	0	0.324	0.204	0.017	0.198	0.02	0.089	42.43244;-76.49694
6/7/2019 15:21			0	0.324	0.208	0.018	0.223	0.02	0.138	
6/7/2019 15:22			0	0.324	0.212	0.018	0.2	0.02	0.06	
6/7/2019 15:23			0	0.324	0.213	0.019	0.224	0.02	0.075	
6/7/2019 15:24			0	0.324	0.209	0.019	0.212	0.02	0.03	
6/7/2019 15:25	12.1	101.2	0	0.324	0.207	0.02	0.206	0.02	0.059	42.43243;-76.49691
6/7/2019 15:26			0	0.324	0.203	0.02	0.188	0.021	0.239	
6/7/2019 15:27			0	0.324	0.199	0.02	0.194	0.021	0.255	
6/7/2019 15:28			0	0.324	0.197	0.021	0.169	0.021	0.052	
6/7/2019 15:29			0	0.324	0.197	0.021	0.226	0.022	0.046	
6/7/2019 15:30	12.1	103.2	0	0.324	0.197	0.022	0.188	0.022	0.103	42.43247;-76.4969
6/7/2019 15:31			0	0.324	0.197	0.022	0.191	0.022	0.107	
6/7/2019 15:32			0	0.324	0.197	0.022	0.178	0.022	0.022	
6/7/2019 15:33			0	0.324	0.197	0.023	0.172	0.022	0.068	
6/7/2019 15:34			0	0.324	0.197	0.023	0.179	0.022	0.079	
6/7/2019 15:35	12.1	106.3	0	0.324	0.194	0.024	0.194	0.022	0.018	42.43249;-76.49697
6/7/2019 15:36			0	0.324	0.192	0.024	0.171	0.022	0.019	
6/7/2019 15:37			0	0.324	0.19	0.024	0.164	0.022	0.024	
6/7/2019 15:38			0	0.324	0.188	0.025	0.185	0.023	0.024	
6/7/2019 15:39			0	0.324	0.186	0.025	0.188	0.023	0.031	
6/7/2019 15:40	12.1	111.3	0	0.324	0.186	0.025	0.171	0.023	0.027	42.43244;-76.49697
6/7/2019 15:41			0	0.324	0.185	0.026	0.188	0.023	0.02	
6/7/2019 15:42			0	0.324	0.183	0.026	0.172	0.023	0.014	
6/7/2019 15:43			0	0.324	0.182	0.027	0.201	0.023	0.012	
6/7/2019 15:44			0	0.324	0.182	0.027	0.176	0.023	0.018	
6/7/2019 15:45	12.1	104.3	0	0.324	0.181	0.027	0.202	0.023	0.036	42.43245;-76.49692
6/7/2019 15:46			0	0.324	0.183	0.028	0.188	0.023	0.05	
6/7/2019 15:47			0	0.324	0.183	0.028	0.208	0.023	0.066	
6/7/2019 15:48			0	0.324	0.184	0.029	0.177	0.023	0.101	
6/7/2019 15:49			0	0.324	0.184	0.029	0.162	0.024	0.136	
6/7/2019 15:50	12.1	102.2	0	0.324	0.184	0.029	0.181	0.024	0.122	42.43247;-76.49701
6/7/2019 15:51			0	0.324	0.184	0.03	0.191	0.024	0.058	
6/7/2019 15:52			0	0.324	0.184	0.03	0.188	0.024	0.108	
6/7/2019 15:53			0	0.324	0.184	0.03	0.189	0.024	0.033	
6/7/2019 15:54			0	0.324	0.185	0.031	0.185	0.024	0.013	
6/7/2019 15:55	12	100.2	0	0.324	0.185	0.031	0.194	0.024	0.03	42.43253;-76.49696
6/7/2019 15:56			0	0.324	0.186	0.032	0.183	0.024	0.069	
6/7/2019 15:57			0	0.324	0.187	0.032	0.191	0.025	0.11	
6/7/2019 15:58			0	0.324	0.188	0.032	0.187	0.025	0.032	
6/7/2019 15:59			0	0.324	0.189	0.033	0.186	0.025	0.085	
6/7/2019 16:00	12.2	105.3	0	0.324	0.189	0.033	0.186	0.025	0.07	42.4325;-76.49699
6/7/2019 16:01			0	0.324	0.188	0.034	0.201	0.025	0.045	
6/7/2019 16:02			0	0.324	0.187	0.034	0.206	0.026	0.597	
6/7/2019 16:03			0	0.329	0.186	0.034	0.288	0.027	0.14	
6/7/2019 16:04			0	0.329	0.189	0.035	0.236	0.027	0.066	
6/7/2019 16:05	12.2	101.2	0	0.329	0.19	0.035	0.209	0.027	0.071	
6/7/2019 16:05										42.4325;-76.49696
6/7/2019 16:06			0	0.329	0.191	0.036	0.188	0.027	0.083	
6/7/2019 16:07			0	0.329	0.192	0.036	0.177	0.027	0.048	
6/7/2019 16:08			0	0.329	0.191	0.036	0.167	0.027	0.019	
6/7/2019 16:09			0	0.329	0.19	0.037	0.16	0.027	0.027	
6/7/2019 16:10	12.2	104.3	0	0.329	0.188	0.037	0.172	0.027	0.012	
6/7/2019 16:10										42.43247;-76.49698
6/7/2019 16:11			0	0.329	0.187	0.037	0.175	0.027	0.026	
6/7/2019 16:12			0	0.329	0.185	0.038	0.166	0.028	0.021	
6/7/2019 16:13			0	0.329	0.183	0.038	0.153	0.028	0.016	
6/7/2019 16:14			0	0.329	0.181	0.039	0.168	0.028	0.022	
6/7/2019 16:15	12.2	107.3	0	0.329	0.18	0.039	0.171	0.028	0.134	
6/7/2019 16:15										42.43242;-76.49699
6/7/2019 16:16			0	0.329	0.178	0.039	0.163	0.028	0.148	
6/7/2019 16:17			0	0.329	0.176	0.04	0.151	0.028	0.103	
6/7/2019 16:18			0	0.329	0.175	0.04	0.168	0.029	0.112	
6/7/2019 16:19			0	0.329	0.172	0.04	0.143	0.029	0.016	
6/7/2019 16:20	12.2	126.5	0	0.329	0.169	0.041	0.168	0.029	0.16	
6/7/2019 16:20										42.43245;-76.49709
6/7/2019 16:21			0	0.329	0.167	0.041	0.153	0.029	0.085	
6/7/2019 16:22			0	0.329	0.165	0.041	0.15	0.029	0.031	
6/7/2019 16:23			0	0.329	0.164	0.042	0.135	0.029	0.016	
6/7/2019 16:24			0	0.329	0.163	0.042	0.144	0.029	0.011	
6/7/2019 16:25	12.2	103.2	0	0.329	0.162	0.042	0.16	0.029	0.012	42.43243;-76.49697
6/7/2019 16:26			0	0.329	0.162	0.043	0.169	0.029	0.011	
6/7/2019 16:27			0	0.329	0.162	0.043	0.176	0.029	0.013	
6/7/2019 16:28			0	0.329	0.162	0.043	0.171	0.029	0.016	
6/7/2019 16:29			0	0.329	0.162	0.044	0.163	0.029	0.016	
6/7/2019 16:30	12.2	100.2	0	0.329	0.163	0.044	0.17	0.029	0.011	42.43242;-76.49696
6/7/2019 16:31			0	0.329	0.163	0.044	0.165	0.029	0.012	
6/7/2019 16:32			0	0.329	0.164	0.045	0.179	0.03	0.014	
6/7/2019 16:33			0	0.329	0.164	0.045	0.166	0.03	0.014	
6/7/2019 16:34			0	0.329	0.165	0.045	0.185	0.03	0.012	
6/7/2019 16:35	12.2	110.3	0	0.329	0.166	0.046	0.183	0.03	0.012	42.43243;-76.49696
6/7/2019 16:36			0	0.329	0.167	0.046	0.178	0.03	0.012	
6/7/2019 16:37			0	0.329	0.169	0.047	0.185	0.03	0.014	
6/7/2019 16:38			0	0.329	0.17	0.047	0.17	0.03	0.012	
6/7/2019 16:39			0	0.329	0.171	0.047	0.181	0.03	0.012	
6/7/2019 16:40	12.2	107.3	0	0.329	0.172	0.048	0.175	0.03	0.013	42.43242;-76.49707
6/7/2019 16:41			0	0.329	0.173	0.048	0.169	0.03	0.011	
6/7/2019 16:42			0	0.329	0.173	0.048	0.191	0.03	0.012	
6/7/2019 16:43			0	0.329	0.174	0.049	0.179	0.03	0.011	
6/7/2019 16:44			0	0.329	0.175	0.049	0.168	0.03	0.011	
6/7/2019 16:45	12.2	100.2	0	0.329	0.175	0.049	0.168	0.03	0.012	42.4325;-76.49734
6/7/2019 16:46			0	0.329	0.175	0.05	0.164	0.03	0.012	
6/7/2019 16:47			0	0.329	0.174	0.05	0.164	0.03	0.014	
6/7/2019 16:48			0	0.329	0.174	0.05	0.178	0.03	0.012	
6/7/2019 16:49			0	0.329	0.174	0.051	0.173	0.031	0.276	
6/25/2019 19:35	12.7	117.4								
6/25/2019 19:36			0	0	0	0	0			
6/25/2019 19:37			0	0	0	0	0			
6/25/2019 19:38			0	0	0	0	0	0		
6/25/2019 19:39			0	0	0	0	0	0	0.02	
6/25/2019 19:40	12.6	97.2	0	0	0	0	0	0	0.007	
6/25/2019 19:40										42.4328;-76.49792
6/25/2019 19:41			0	0	0	0	0	0	0.007	
6/25/2019 19:42			0	0	0	0	0	0	0.008	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/25/2019 19:43			0	0	0	0	0	0	0.008	
6/25/2019 19:44			0	0	0	0	0	0	0.007	
6/25/2019 19:45	12.6	98.2	0	0	0	0	0	0	0.007	
6/25/2019 19:45										42.4327;-76.49788
6/25/2019 19:46			0	0	0	0	0	0	0.01	
6/25/2019 19:47			0	0	0	0	0	0	0.008	
6/25/2019 19:48			0	0	0	0	0	0	0.008	
6/25/2019 19:49			0	0.09	0	0	0	0	0.03	
6/25/2019 19:50	12.6	98.2	0	0.09	0	0	0	0	0.01	
6/25/2019 19:50										42.43274;-76.49792
6/25/2019 19:51			0	0.09	0	0	0	0	0.016	
6/25/2019 19:52			0	0.09	0	0	0	0	0.011	
6/25/2019 19:53			0	0.09	0	0	0	0	0.008	
6/25/2019 19:54			0	0.09	0	0	0	0	0.008	
6/25/2019 19:55	12.6	98.2	0	0.09	0	0	0	0	0.007	
6/25/2019 19:55										42.43275;-76.49794
6/25/2019 19:56			0	0.09	0	0	0	0	0.008	
6/25/2019 19:57			0	0.09	0	0	0	0	0.007	
6/25/2019 19:58			0	0.09	0	0	0	0	0.008	
6/25/2019 19:59			0	0.09	0	0	0	0	0.009	
6/25/2019 20:00	12.6	104.3	0	0.09	0	0	0	0	0.006	
6/25/2019 20:00										42.4328;-76.49792
6/25/2019 20:01			0	0.09	0	0	0	0	0.017	
6/25/2019 20:02			0	0.09	0	0	0	0	0.011	
6/25/2019 20:03			0	0.09	0	0	0.006	0.001	0.006	
6/25/2019 20:04			0	0.09	0	0	0	0.001	0.007	
6/25/2019 20:05	12.6	109.3	0	0.09	0	0	0.009	0.001	0.008	
6/25/2019 20:05										42.43276;-76.49794
6/25/2019 20:06			0	0.09	0	0	0.021	0.001	0.01	
6/25/2019 20:07			0	0.123	0.001	0	0.027	0.001	0.01	
6/25/2019 20:08			0	0.123	0.002	0	0.07	0.001	0.029	
6/25/2019 20:09			0	0.123	0.004	0	0	0.001	0.013	
6/25/2019 20:10	12.6	98.2	0	0.123	0.004	0	0	0.001	0.014	
6/25/2019 20:10										42.43282;-76.49794
6/25/2019 20:11			0	0.123	0.004	0	0.012	0.001	0.006	
6/25/2019 20:12			0	0.123	0.005	0	0.009	0.001	0.006	
6/25/2019 20:13			0	0.123	0.005	0	0.037	0.001	0.007	
6/25/2019 20:14			0	0.123	0.006	0	0	0.001	0.006	
6/25/2019 20:15	12.5	100.2	0	0.123	0.006	0	0.029	0.001	0.006	
6/25/2019 20:15										42.4328;-76.4979
6/25/2019 20:16			0	0.123	0.007	0	0.013	0.001	0.006	
6/25/2019 20:17			0	0.123	0.007	0	0.005	0.001	0.006	
6/25/2019 20:18			0	0.123	0.008	0	0	0.001	0.006	
6/25/2019 20:19			0	0.123	0.009	0	0.008	0.001	0.006	
6/25/2019 20:20	12.5	109.3	0	0.123	0.01	0	0.026	0.001	0.006	
6/25/2019 20:20										42.43277;-76.49793
6/25/2019 20:21			0	0.123	0.012	0	0.034	0.001	0.051	
6/25/2019 20:22			0	0.123	0.013	0	0.032	0.001	0.011	
6/25/2019 20:23			0	0.123	0.013	0	0.032	0.001	0.012	
6/25/2019 20:24			0	0.123	0.014	0	0.028	0.001	0.006	
6/25/2019 20:25	12.5	100.2	0	0.123	0.017	0	0.025	0.001	0.006	
6/25/2019 20:25										42.43284;-76.49792
6/25/2019 20:26			0	0.123	0.018	0	0.061	0.001	0.006	
6/25/2019 20:27			0	0.123	0.021	0	0.075	0.001	0.006	
6/25/2019 20:28			0	0.123	0.025	0	0.058	0.001	0.01	
6/25/2019 20:29			0	0.123	0.028	0.001	0.041	0.001	0.006	
6/25/2019 20:30	12.5	100.2	0	0.123	0.031	0.001	0.066	0.001	0.006	
6/25/2019 20:30										42.43278;-76.49794
6/25/2019 20:31			0	0.123	0.035	0.001	0.077	0.001	0.006	
6/25/2019 20:32			0	0.123	0.039	0.001	0.085	0.001	0.006	
6/25/2019 20:33			0	0.123	0.043	0.001	0.079	0.001	0.006	
6/25/2019 20:34			0	0.123	0.048	0.001	0.083	0.001	0.006	
6/25/2019 20:35	12.5	111.3	0	0.123	0.052	0.001	0.08	0.001	0.005	
6/25/2019 20:35										42.43282;-76.49786
6/25/2019 20:36			0	0.143	0.056	0.002	0.077	0.001	0.022	
6/25/2019 20:37			0	0.143	0.06	0.002	0.088	0.001	0.013	
6/25/2019 20:38			0	0.143	0.064	0.002	0.086	0.001	0.022	
6/25/2019 20:39			0	0.143	0.067	0.002	0.09	0.001	0.008	
6/25/2019 20:40	12.5	110.3	0	0.143	0.07	0.002	0.092	0.001	0.006	
6/25/2019 20:40										42.43286;-76.4979
6/25/2019 20:41			0	0.143	0.074	0.003	0.081	0.001	0.005	
6/25/2019 20:42			0	0.143	0.076	0.003	0.102	0.001	0.01	
6/25/2019 20:43			0	0.143	0.077	0.003	0.096	0.001	0.011	
6/25/2019 20:44			0	0.143	0.08	0.003	0.086	0.001	0.008	
6/25/2019 20:45	12.5	100.2	0	0.143	0.081	0.003	0.083	0.001	0.008	
6/25/2019 20:45										42.43284;-76.49794
6/25/2019 20:46			0	0.143	0.083	0.003	0.069	0.001	0.005	
6/25/2019 20:47			0	0.143	0.083	0.004	0.052	0.001	0.006	
6/25/2019 20:48			0	0.143	0.084	0.004	0.093	0.001	0.008	
6/25/2019 20:49			0	0.143	0.085	0.004	0.081	0.001	0.006	
6/25/2019 20:50	12.5	106.3	0	0.143	0.086	0.004	0.118	0.001	0.005	
6/25/2019 20:50										42.43283;-76.49791
6/25/2019 20:51			0	0.143	0.087	0.004	0.104	0.001	0.005	
6/25/2019 20:52			0	0.143	0.088	0.005	0.111	0.001	0.005	
6/25/2019 20:53			0	0.143	0.089	0.005	0.096	0.001	0.017	
6/25/2019 20:54			0	0.143	0.091	0.005	0.109	0.002	0.04	
6/25/2019 20:55	12.5	101.2	0	0.143	0.093	0.005	0.118	0.002	0.016	
6/25/2019 20:55										42.43283;-76.49791
6/25/2019 20:56			0	0.143	0.094	0.006	0.108	0.002	0.008	
6/25/2019 20:57			0	0.146	0.096	0.006	0.119	0.002	0.005	
6/25/2019 20:58			0	0.146	0.098	0.006	0.098	0.002	0.006	
6/25/2019 20:59			0	0.146	0.099	0.006	0.092	0.002	0.006	
6/25/2019 21:00	12.5	104.3	0	0.146	0.1	0.006	0.108	0.002	0.006	
6/25/2019 21:00										42.43287;-76.49794
6/25/2019 21:01			0	0.146	0.102	0.007	0.109	0.002	0.005	
6/25/2019 21:02			0	0.146	0.104	0.007	0.119	0.002	0.005	
6/25/2019 21:03			0	0.146	0.106	0.007	0.113	0.002	0.005	
6/25/2019 21:04			0	0.146	0.107	0.007	0.118	0.002	0.005	
6/25/2019 21:05	12.5	104.3	0	0.15	0.109	0.008	0.112	0.002	0.005	
6/25/2019 21:05										42.43283;-76.49796
6/25/2019 21:06			0	0.15	0.109	0.008	0.113	0.002	0.005	
6/25/2019 21:07			0	0.15	0.11	0.008	0.124	0.002	0.008	
6/25/2019 21:08			0	0.15	0.111	0.008	0.112	0.002	0.005	
6/25/2019 21:09			0	0.15	0.111	0.009	0.1	0.002	0.006	
6/25/2019 21:10	12.5	100.2	0	0.15	0.111	0.009	0.126	0.002	0.005	
6/25/2019 21:10										42.43284;-76.49792
6/25/2019 21:11			0	0.15	0.112	0.009	0.131	0.002	0.005	
6/25/2019 21:12			0	0.15	0.112	0.009	0.111	0.002	0.005	
6/25/2019 21:13			0	0.15	0.111	0.009	0.114	0.002	0.005	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/25/2019 21:14			0	0.162	0.112	0.01	0.108	0.002	0.005	
6/25/2019 21:15	12.5	103.2	0	0.162	0.112	0.01	0.107	0.002	0.005	
6/25/2019 21:15										42.43285;-76.49796
6/25/2019 21:16			0	0.162	0.112	0.01	0.118	0.002	0.006	
6/25/2019 21:17			0	0.162	0.111	0.01	0.088	0.002	0.006	
6/25/2019 21:18			0	0.162	0.11	0.011	0.1	0.002	0.007	
6/25/2019 21:19			0	0.162	0.11	0.011	0.102	0.002	0.005	
6/25/2019 21:20	12.5	99.2	0	0.162	0.109	0.011	0.13	0.002	0.006	
6/25/2019 21:20										42.43283;-76.49792
6/25/2019 21:21			0	0.292	0.109	0.011	0.123	0.002	0.022	
6/25/2019 21:22			0	0.292	0.109	0.012	0.11	0.002	0.016	
6/25/2019 21:23			0	0.292	0.109	0.012	0.113	0.002	0.014	
6/25/2019 21:24			0	0.292	0.109	0.012	0.105	0.002	0.007	
6/25/2019 21:25	12.5	106.3	0	0.292	0.109	0.012	0.119	0.002	0.005	
6/25/2019 21:25										42.43285;-76.49794
6/25/2019 21:26			0	0.292	0.109	0.012	0.127	0.002	0.004	
6/25/2019 21:27			0	0.292	0.11	0.013	0.125	0.002	0.005	
6/25/2019 21:28			0	0.292	0.111	0.013	0.12	0.002	0.005	
6/25/2019 21:29			0	0.292	0.112	0.013	0.126	0.002	0.005	
6/25/2019 21:30	12.5	108.3	0	0.292	0.112	0.013	0.121	0.002	0.005	
6/25/2019 21:30										42.43286;-76.49793
6/25/2019 21:31			0	0.292	0.113	0.014	0.115	0.002	0.005	
6/25/2019 21:32			0	0.292	0.114	0.014	0.119	0.002	0.01	
6/25/2019 21:33			0	0.292	0.115	0.014	0.141	0.002	0.014	
6/25/2019 21:34			0	0.328	0.118	0.014	0.106	0.002	0.026	
6/25/2019 21:35	12.5	101.2	0	0.328	0.118	0.015	0.106	0.002	0.009	
6/25/2019 21:35										42.43287;-76.49793
6/25/2019 21:36			0	0.328	0.117	0.015	0.123	0.002	0.005	
6/25/2019 21:37			0	0.328	0.116	0.015	0.099	0.002	0.007	
6/25/2019 21:38			0	0.328	0.117	0.015	0.103	0.002	0.007	
6/25/2019 21:39			0	0.328	0.116	0.016	0.113	0.002	0.005	
6/25/2019 21:40	12.5	100.2	0	0.328	0.116	0.016	0.108	0.002	0.008	
6/25/2019 21:40										42.43292;-76.49794
6/25/2019 21:41			0	0.328	0.115	0.016	0.1	0.002	0.007	
6/25/2019 21:42			0	0.328	0.114	0.016	0.11	0.002	0.016	
6/25/2019 21:43			0	0.328	0.113	0.017	0.102	0.002	0.034	
6/25/2019 21:44			0	0.328	0.113	0.017	0.107	0.002	0.015	
6/25/2019 21:45	12.5	101.2	0	0.328	0.112	0.017	0.105	0.002	0.011	
6/25/2019 21:45										42.43285;-76.49791
6/25/2019 21:46			0	0.328	0.111	0.017	0.1	0.002	0.005	
6/25/2019 21:47			0	0.328	0.109	0.017	0.108	0.002	0.006	
6/25/2019 21:48			0	0.328	0.107	0.018	0.083	0.002	0.01	
6/26/2019 12:16	12.7	115.4								
6/26/2019 12:17			0	0.054	0	0	0.041			
6/26/2019 12:18			0	0.054	0	0	0.025			
6/26/2019 12:19			0	0.054	0	0	0.002	0	0.014	
6/26/2019 12:20	12.6	97.2	0	0.054	0	0	0	0	0.017	
6/26/2019 12:20										42.43325;-76.49767
6/26/2019 12:21			0	0.054	0	0	0	0	0.015	
6/26/2019 12:22			0	0.054	0	0	0	0	0.015	
6/26/2019 12:23			0	0.054	0	0	0	0	0.015	
6/26/2019 12:24			0	0.054	0	0	0	0	0.015	
6/26/2019 12:25	12.6	96.2	0	0.054	0	0	0	0	0.015	
6/26/2019 12:25										42.43321;-76.49757
6/26/2019 12:26			0	0.054	0	0	0	0	0.015	
6/26/2019 12:27			0	0.054	0	0	0	0	0.015	
6/26/2019 12:28			0	0.054	0	0	0	0	0.014	
6/26/2019 12:29			0	0.054	0	0	0	0	0.015	
6/26/2019 12:30	12.6	102.2	0	0.054	0	0	0	0	0.015	
6/26/2019 12:30										42.43326;-76.49766
6/26/2019 12:31			0	0.054	0	0	0	0	0.015	
6/26/2019 12:32			0	0.054	0.003	0	0	0	0.014	
6/26/2019 12:33			0	0.054	0.001	0	0	0	0.014	
6/26/2019 12:34			0	0.054	0	0	0	0	0.015	
6/26/2019 12:35	12.6	97.2	0	0.054	0	0	0	0.001	0.014	
6/26/2019 12:35										42.43326;-76.49767
6/26/2019 12:36			0	0.054	0	0	0	0.001	0.014	
6/26/2019 12:37			0	0.054	0	0	0	0.001	0.014	
6/26/2019 12:38			0	0.054	0	0	0	0.001	0.014	
6/26/2019 12:39			0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:40	12.6	100.2	0	0.054	0	0	0	0.001	0.014	
6/26/2019 12:40										42.43319;-76.4976
6/26/2019 12:41			0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:42			0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:43			0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:44			0	0.054	0	0	0	0.001	0.014	
6/26/2019 12:45	12.6	100.2	0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:45										42.4332;-76.49754
6/26/2019 12:46			0	0.054	0	0	0	0.001	0.015	
6/26/2019 12:47			0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:48			0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:49			0	0.054	0	0	0	0.001	0.014	
6/26/2019 12:50	12.6	101.2	0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:50										42.43327;-76.49761
6/26/2019 12:51			0	0.054	0	0	0	0.001	0.014	
6/26/2019 12:52			0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:53			0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:54			0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:55	12.6	113.4	0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:55										42.43328;-76.49767
6/26/2019 12:56			0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:57			0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:58			0	0.054	0	0	0	0.001	0.013	
6/26/2019 12:59			0	0.054	0	0	0	0.001	0.013	
6/26/2019 13:00	12.6	113.4	0	0.054	0	0	0	0.001	0.013	
6/26/2019 13:00										42.43331;-76.49763
6/26/2019 13:01			0	0.054	0	0	0	0.001	0.013	
6/26/2019 13:02			0	0.054	0	0	0	0.001	0.013	
6/26/2019 13:03			0	0.054	0	0	0	0.001	0.013	
6/26/2019 13:04			0	0.054	0	0	0	0.001	0.013	
6/26/2019 13:05	12.6	97.2	0	0.054	0	0	0	0.001	0.014	
6/26/2019 13:05										42.43321;-76.49755
6/26/2019 13:06			0	0.054	0	0	0	0.001	0.013	
6/26/2019 13:07			0	0.054	0	0	0	0.001	0.014	
6/26/2019 13:08			0	0.054	0	0	0	0.001	0.014	
6/26/2019 13:09			0	0.054	0	0	0	0.001	0.014	
6/26/2019 13:10	12.6	96.2	0	0.054	0	0	0	0.001	0.015	
6/26/2019 13:10										42.43323;-76.49756
6/26/2019 13:11			0	0.054	0	0	0	0.002	0.014	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/26/2019 13:12			0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:13			0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:14			0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:15	12.6	97.2	0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:15										42.43329;-76.49763
6/26/2019 13:16			0	0.054	0	0	0	0.002	0.015	
6/26/2019 13:17			0	0.054	0	0	0	0.002	0.015	
6/26/2019 13:18			0	0.054	0	0	0	0.002	0.015	
6/26/2019 13:19			0	0.054	0	0	0	0.002	0.017	
6/26/2019 13:20	12.6	131.6	0	0.054	0	0	0	0.002	0.022	
6/26/2019 13:20										42.4332;-76.4976
6/26/2019 13:21			0	0.054	0	0	0	0.002	0.016	
6/26/2019 13:22			0	0.054	0	0	0	0.002	0.016	
6/26/2019 13:23			0	0.054	0	0	0	0.002	0.019	
6/26/2019 13:24			0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:25	12.6	98.2	0	0.054	0	0	0	0.002	0.016	
6/26/2019 13:25										42.43324;-76.49756
6/26/2019 13:26			0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:27			0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:28			0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:29			0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:30	12.6	98.2	0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:30										42.43318;-76.49756
6/26/2019 13:31			0	0.054	0	0	0.008	0.002	0.013	
6/26/2019 13:32			0	0.054	0	0	0	0.002	0.013	
6/26/2019 13:33			0	0.054	0	0	0	0.002	0.013	
6/26/2019 13:34			0	0.054	0	0	0.005	0.002	0.014	
6/26/2019 13:35	12.6	97.2	0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:35										42.4332;-76.49763
6/26/2019 13:36			0	0.054	0	0	0	0.002	0.013	
6/26/2019 13:37			0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:38			0	0.054	0	0	0	0.002	0.013	
6/26/2019 13:39			0	0.054	0	0	0	0.002	0.013	
6/26/2019 13:40	12.6	101.2	0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:40										42.43318;-76.4976
6/26/2019 13:41			0	0.054	0	0	0.005	0.002	0.014	
6/26/2019 13:42			0	0.054	0	0	0.003	0.002	0.013	
6/26/2019 13:43			0	0.054	0	0	0	0.002	0.014	
6/26/2019 13:44			0	0.054	0	0	0.003	0.003	0.013	
6/26/2019 13:45	12.5	98.2	0	0.054	0.001	0	0	0.003	0.014	
6/26/2019 13:45										42.43314;-76.49754
6/26/2019 13:46			0	0.054	0.001	0	0	0.003	0.014	
6/26/2019 13:47			0	0.054	0.001	0	0.01	0.003	0.013	
6/26/2019 13:48			0	0.054	0.001	0	0.009	0.003	0.013	
6/26/2019 13:49			0	0.054	0.001	0	0.009	0.003	0.014	
6/26/2019 13:50	12.5	99.2	0	0.054	0.001	0	0.004	0.003	0.013	
6/26/2019 13:50										42.43317;-76.49753
6/26/2019 13:51			0	0.054	0.002	0	0.013	0.003	0.014	
6/26/2019 13:52			0	0.054	0.002	0	0.013	0.003	0.014	
6/26/2019 13:53			0	0.054	0.003	0	0.019	0.003	0.015	
6/26/2019 13:54			0	0.054	0.004	0	0.025	0.003	0.014	
6/26/2019 13:55	12.5	102.2	0	0.054	0.005	0	0.008	0.003	0.014	
6/26/2019 13:55										42.43316;-76.49761
6/26/2019 13:56			0	0.054	0.006	0	0.013	0.003	0.013	
6/26/2019 13:57			0	0.054	0.007	0	0.005	0.003	0.014	
6/26/2019 13:58			0	0.054	0.008	0	0.015	0.003	0.013	
6/26/2019 13:59			0	0.054	0.008	0	0.007	0.003	0.013	
6/26/2019 14:00	12.5	109.3	0	0.054	0.009	0	0.018	0.003	0.013	
6/26/2019 14:00										42.43324;-76.49757
6/26/2019 14:01			0	0.054	0.01	0	0.007	0.003	0.013	
6/26/2019 14:02			0	0.054	0.01	0	0.02	0.003	0.015	
6/26/2019 14:03			0	0.054	0.011	0	0.012	0.003	0.015	
6/26/2019 14:04			0	0.054	0.012	0	0.02	0.003	0.013	
6/26/2019 14:05	12.5	109.3	0	0.054	0.013	0	0.019	0.003	0.013	
6/26/2019 14:05										42.43323;-76.49767
6/26/2019 14:06			0	0.054	0.014	0	0.01	0.003	0.013	
6/26/2019 14:07			0	0.054	0.014	0	0.011	0.003	0.013	
6/26/2019 14:08			0	0.054	0.014	0	0.027	0.003	0.013	
6/26/2019 14:09			0	0.054	0.014	0	0.021	0.003	0.013	
6/26/2019 14:10	12.5	100.2	0	0.054	0.015	0	0.023	0.003	0.013	
6/26/2019 14:10										42.43321;-76.4977
6/26/2019 14:11			0	0.054	0.015	0	0.034	0.003	0.013	
6/26/2019 14:12			0	0.054	0.015	0	0.031	0.003	0.013	
6/26/2019 14:13			0	0.054	0.016	0	0.038	0.003	0.013	
6/26/2019 14:14			0	0.054	0.017	0	0.043	0.003	0.013	
6/26/2019 14:15	12.5	100.2	0	0.079	0.019	0.001	0.046	0.003	0.013	
6/26/2019 14:15										42.43321;-76.49767
6/26/2019 14:16			0	0.079	0.021	0.001	0.037	0.003	0.013	
6/26/2019 14:17			0	0.079	0.023	0.001	0.035	0.003	0.013	
6/26/2019 14:18			0	0.079	0.024	0.001	0.036	0.003	0.013	
6/26/2019 14:19			0	0.079	0.025	0.001	0.025	0.003	0.013	
6/26/2019 14:20	12.5	110.3	0	0.079	0.026	0.001	0.038	0.004	0.014	
6/26/2019 14:20										42.4332;-76.49766
6/26/2019 14:21			0	0.079	0.028	0.001	0.043	0.004	0.018	
6/26/2019 14:22			0	0.079	0.029	0.001	0.037	0.004	0.016	
6/26/2019 14:23			0	0.079	0.031	0.001	0.033	0.004	0.014	
6/26/2019 14:24			0	0.079	0.032	0.001	0.048	0.004	0.014	
6/26/2019 14:25	12.5	103.2	0	0.079	0.034	0.001	0.048	0.004	0.015	
6/26/2019 14:25										42.43318;-76.49761
6/26/2019 14:26			0	0.079	0.036	0.001	0.038	0.004	0.015	
6/26/2019 14:27			0	0.079	0.037	0.002	0.049	0.004	0.015	
6/26/2019 14:28			0	0.079	0.038	0.002	0.05	0.004	0.014	
6/26/2019 14:29			0	0.079	0.039	0.002	0.054	0.004	0.014	
6/26/2019 14:30	12.4	100.2	0	0.079	0.04	0.002	0.049	0.004	0.014	
6/26/2019 14:30										42.43324;-76.4976
6/26/2019 14:31			0	0.079	0.04	0.002	0.04	0.004	0.014	
6/26/2019 14:32			0	0.079	0.041	0.002	0.038	0.004	0.014	
6/26/2019 14:33			0	0.079	0.042	0.002	0.055	0.004	0.014	
6/26/2019 14:34			0	0.079	0.043	0.002	0.062	0.004	0.014	
6/26/2019 14:35	12.4	105.3	0	0.079	0.045	0.002	0.062	0.004	0.014	
6/26/2019 14:35										42.43322;-76.49753
6/26/2019 14:36			0	0.079	0.047	0.002	0.06	0.004	0.014	
6/26/2019 14:37			0	0.079	0.048	0.003	0.058	0.004	0.014	
6/26/2019 14:38			0	0.079	0.049	0.003	0.053	0.004	0.014	
6/26/2019 14:39			0	0.079	0.051	0.003	0.071	0.004	0.014	
6/26/2019 14:40	12.4	109.3	0	0.079	0.052	0.003	0.061	0.004	0.014	
6/26/2019 14:40										42.43321;-76.49752
6/26/2019 14:41			0	0.08	0.053	0.003	0.067	0.004	0.014	
6/26/2019 14:42			0	0.08	0.055	0.003	0.07	0.004	0.015	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/26/2019 14:43			0	0.082	0.057	0.003	0.069	0.004	0.015	
6/26/2019 14:44			0	0.092	0.059	0.004	0.072	0.004	0.014	
6/26/2019 14:45	12.4	100.2	0	0.092	0.06	0.004	0.066	0.004	0.014	
6/26/2019 14:45										42.43325;-76.49757
6/26/2019 14:46			0	0.092	0.061	0.004	0.069	0.004	0.014	
6/26/2019 14:47			0	0.092	0.062	0.004	0.067	0.004	0.014	
6/26/2019 14:48			0	0.092	0.063	0.004	0.083	0.004	0.014	
6/26/2019 14:49			0	0.092	0.065	0.004	0.07	0.004	0.012	
6/26/2019 14:50	12.4	99.2	0	0.092	0.065	0.004	0.069	0.004	0.012	
6/26/2019 14:50										42.43328;-76.49753
6/26/2019 14:51			0	0.092	0.066	0.005	0.081	0.004	0.012	
6/26/2019 14:52			0	0.092	0.067	0.005	0.07	0.004	0.012	
6/26/2019 14:53			0	0.092	0.067	0.005	0.063	0.004	0.012	
6/26/2019 14:54			0	0.092	0.068	0.005	0.072	0.005	0.013	
6/26/2019 14:55	12.4	101.2	0	0.092	0.069	0.005	0.057	0.005	0.012	
6/26/2019 14:55										42.43324;-76.49752
6/26/2019 14:56			0	0.092	0.069	0.005	0.064	0.005	0.012	
6/26/2019 14:57			0	0.092	0.069	0.005	0.071	0.005	0.012	
6/26/2019 14:58			0	0.092	0.068	0.006	0.057	0.005	0.012	
6/26/2019 14:59			0	0.092	0.068	0.006	0.069	0.005	0.012	
6/26/2019 15:00	12.4	99.2	0	0.092	0.067	0.006	0.065	0.005	0.012	
6/26/2019 15:00										42.43328;-76.49763
6/26/2019 15:01			0	0.092	0.067	0.006	0.068	0.005	0.012	
6/26/2019 15:02			0	0.092	0.068	0.006	0.089	0.005	0.013	
6/26/2019 15:03			0	0.113	0.068	0.006	0.087	0.005	0.015	
6/26/2019 15:04			0	0.113	0.069	0.006	0.085	0.005	0.015	
6/26/2019 15:05	12.4	108.3	0	0.113	0.07	0.007	0.078	0.005	0.015	
6/26/2019 15:05										42.43326;-76.49765
6/26/2019 15:06			0	0.113	0.071	0.007	0.082	0.005	0.015	
6/26/2019 15:07			0	0.113	0.072	0.007	0.082	0.005	0.013	
6/26/2019 15:08			0	0.113	0.073	0.007	0.095	0.005	0.014	
6/26/2019 15:09			0	0.113	0.074	0.007	0.091	0.005	0.015	
6/26/2019 15:10	12.4	121.5	0	0.113	0.075	0.007	0.089	0.005	0.014	
6/26/2019 15:10										42.43325;-76.49765
6/26/2019 15:11			0	0.113	0.077	0.008	0.095	0.005	0.015	
6/26/2019 15:12			0	0.113	0.079	0.008	0.093	0.005	0.019	
6/26/2019 15:13			0	0.113	0.081	0.008	0.112	0.005	0.015	
6/26/2019 15:14			0	0.113	0.083	0.008	0.092	0.005	0.014	
6/26/2019 15:15	12.4	100.2	0	0.113	0.085	0.008	0.113	0.005	0.015	
6/26/2019 15:15										42.43325;-76.49761
6/26/2019 15:16			0	0.12	0.088	0.009	0.098	0.005	0.014	
6/26/2019 15:17			0	0.12	0.09	0.009	0.103	0.005	0.013	
6/26/2019 15:18			0	0.12	0.091	0.009	0.088	0.005	0.013	
6/26/2019 15:19			0	0.12	0.092	0.009	0.088	0.005	0.012	
6/26/2019 15:20	12.4	111.3	0	0.12	0.092	0.009	0.097	0.005	0.012	
6/26/2019 15:20										42.43321;-76.49756
6/26/2019 15:21			0	0.12	0.093	0.01	0.081	0.005	0.012	
6/26/2019 15:22			0	0.12	0.093	0.01	0.096	0.005	0.014	
6/26/2019 15:23			0	0.128	0.094	0.01	0.114	0.005	0.016	
6/26/2019 15:24			0	0.128	0.096	0.01	0.109	0.005	0.014	
6/26/2019 15:25	12.4	107.3	0	0.128	0.096	0.011	0.111	0.005	0.012	
6/26/2019 15:25										42.43324;-76.49758
6/26/2019 15:26			0	0.128	0.097	0.011	0.101	0.005	0.012	
6/26/2019 15:27			0	0.128	0.098	0.011	0.1	0.005	0.013	
6/26/2019 15:28			0	0.128	0.098	0.011	0.105	0.005	0.012	
6/26/2019 15:29			0	0.128	0.098	0.011	0.091	0.005	0.012	
6/26/2019 15:30	12.4	97.2	0	0.128	0.098	0.012	0.102	0.006	0.012	
6/26/2019 15:30										42.43324;-76.49767
6/26/2019 15:31			0	0.128	0.098	0.012	0.101	0.006	0.012	
6/26/2019 15:32			0	0.128	0.098	0.012	0.099	0.006	0.012	
6/26/2019 15:33			0	0.128	0.099	0.012	0.101	0.006	0.012	
6/26/2019 15:34			0	0.128	0.099	0.012	0.102	0.006	0.012	
6/26/2019 15:35	12.4	111.3	0	0.128	0.1	0.013	0.104	0.006	0.013	
6/26/2019 15:35										42.43331;-76.49767
6/26/2019 15:36			0	0.128	0.101	0.013	0.102	0.006	0.012	
6/26/2019 15:37			0	0.135	0.102	0.013	0.108	0.006	0.015	
6/26/2019 15:38			0	0.135	0.103	0.013	0.103	0.006	0.013	
6/26/2019 15:39			0	0.135	0.103	0.014	0.101	0.006	0.013	
6/26/2019 15:40	12.4	100.2	0	0.135	0.104	0.014	0.11	0.006	0.013	
6/26/2019 15:40										42.43328;-76.49767
6/26/2019 15:41			0	0.135	0.104	0.014	0.106	0.006	0.014	
6/26/2019 15:42			0	0.135	0.105	0.014	0.114	0.006	0.012	
6/26/2019 15:43			0	0.135	0.105	0.014	0.118	0.006	0.012	
6/26/2019 15:44			0	0.135	0.106	0.015	0.117	0.006	0.012	
6/26/2019 15:45	12.4	104.3	0	0.135	0.108	0.015	0.119	0.006	0.013	
6/26/2019 15:45										42.4333;-76.49765
6/26/2019 15:46			0	0.135	0.108	0.015	0.125	0.006	0.014	
6/26/2019 15:47			0	0.135	0.11	0.015	0.125	0.006	0.012	
6/26/2019 15:48			0	0.135	0.111	0.016	0.121	0.006	0.013	
6/26/2019 15:49			0	0.135	0.112	0.016	0.126	0.006	0.013	
6/26/2019 15:50	12.4	102.2	0	0.15	0.113	0.016	0.132	0.006	0.012	
6/26/2019 15:50										42.43327;-76.49772
6/26/2019 15:51			0	0.15	0.114	0.016	0.128	0.006	0.012	
6/26/2019 15:52			0	0.15	0.116	0.017	0.114	0.006	0.012	
6/26/2019 15:53			0	0.15	0.116	0.017	0.119	0.006	0.012	
6/26/2019 15:54			0	0.15	0.117	0.017	0.106	0.006	0.012	
6/26/2019 15:55	12.4	107.3	0	0.15	0.117	0.017	0.11	0.006	0.012	
6/26/2019 15:55										42.43328;-76.49774
6/26/2019 15:56			0	0.15	0.117	0.018	0.115	0.006	0.012	
6/26/2019 15:57			0	0.15	0.118	0.018	0.132	0.006	0.012	
6/26/2019 15:58			0	0.15	0.119	0.018	0.121	0.006	0.012	
6/26/2019 15:59			0	0.15	0.119	0.018	0.11	0.006	0.012	
6/26/2019 16:00	12.4	98.2	0	0.15	0.119	0.019	0.131	0.006	0.012	
6/26/2019 16:00										42.43332;-76.49767
6/26/2019 16:01			0	0.15	0.119	0.019	0.119	0.006	0.015	
6/26/2019 16:02			0	0.15	0.119	0.019	0.108	0.006	0.012	
6/26/2019 16:03			0	0.15	0.118	0.019	0.126	0.006	0.012	
6/26/2019 16:04			0	0.15	0.118	0.02	0.114	0.006	0.013	
6/26/2019 16:05	12.4	102.2	0	0.15	0.117	0.02	0.109	0.006	0.012	
6/26/2019 16:05										42.43329;-76.49767
6/26/2019 16:06			0	0.15	0.116	0.02	0.109	0.006	0.012	
6/26/2019 16:07			0	0.15	0.116	0.02	0.127	0.006	0.012	
6/26/2019 16:08			0	0.15	0.116	0.021	0.119	0.007	0.012	
6/26/2019 16:09			0	0.15	0.116	0.021	0.121	0.007	0.012	
6/26/2019 16:10	12.4	109.3	0	0.15	0.116	0.021	0.107	0.007	0.012	
6/26/2019 16:10										42.43325;-76.49762
6/26/2019 16:11			0	0.152	0.116	0.021	0.138	0.007	0.012	
6/26/2019 16:12			0	0.152	0.117	0.022	0.119	0.007	0.011	
6/26/2019 16:13			0	0.152	0.116	0.022	0.13	0.007	0.012	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/26/2019 16:14			0	0.152	0.117	0.022	0.128	0.007	0.013	
6/26/2019 16:15	12.4	109.3	0	0.152	0.119	0.022	0.122	0.007	0.012	
6/26/2019 16:15										42.4333;-76.49767
6/26/2019 16:16			0	0.152	0.119	0.023	0.131	0.007	0.013	
6/26/2019 16:17			0	0.152	0.119	0.023	0.147	0.007	0.022	
6/26/2019 16:18			0	0.152	0.121	0.023	0.141	0.007	0.013	
6/26/2019 16:19			0	0.152	0.122	0.023	0.124	0.007	0.017	
6/26/2019 16:20	12.4	104.3	0	0.152	0.123	0.024	0.125	0.007	0.012	
6/26/2019 16:21			0	0.157	0.124	0.024	0.14	0.007	0.013	
6/26/2019 16:22			0	0.157	0.126	0.024	0.109	0.007	0.012	
6/26/2019 16:23			0	0.157	0.126	0.025	0.131	0.007	0.012	
6/26/2019 16:24			0	0.157	0.127	0.025	0.126	0.007	0.011	
6/26/2019 16:25	12.4	89.1	0	0.161	0.127	0.025	0.143	0.007	0.012	
6/26/2019 16:26			0	0.161	0.129	0.025	0.135	0.007	0.012	
6/26/2019 16:27			0	0.161	0.129	0.026	0.131	0.007	0.012	
6/26/2019 16:28			0	0.161	0.13	0.026	0.147	0.007	0.012	
6/26/2019 16:29			0	0.161	0.131	0.026	0.139	0.007	0.012	
6/26/2019 16:30	12.4	89.1	0	0.162	0.131	0.026	0.141	0.007	0.012	
6/26/2019 16:31			0	0.162	0.132	0.027	0.146	0.007	0.013	
6/26/2019 16:32			0	0.162	0.133	0.027	0.154	0.007	0.012	
6/26/2019 16:33			0	0.162	0.134	0.027	0.149	0.007	0.012	
6/26/2019 16:34			0	0.162	0.134	0.028	0.151	0.007	0.011	
6/26/2019 16:35	12.4	89.1	0	0.162	0.136	0.028	0.143	0.007	0.011	
6/26/2019 16:36			0	0.162	0.136	0.028	0.146	0.007	0.011	
6/26/2019 16:37			0	0.162	0.136	0.029	0.134	0.007	0.012	
6/26/2019 16:38			0	0.162	0.137	0.029	0.135	0.007	0.012	
6/26/2019 16:39			0	0.162	0.138	0.029	0.131	0.007	0.012	
6/26/2019 16:40	12.4	89.1	0	0.162	0.138	0.029	0.117	0.007	0.011	
6/26/2019 16:41			0	0.162	0.137	0.03	0.135	0.007	0.011	
6/26/2019 16:42			0	0.162	0.136	0.03	0.136	0.007	0.011	
6/26/2019 16:43			0	0.162	0.137	0.03	0.129	0.007	0.012	
6/26/2019 16:44			0	0.162	0.136	0.03	0.134	0.007	0.012	
6/26/2019 16:45	12.4	88.1	0	0.162	0.135	0.031	0.14	0.007	0.012	
6/26/2019 16:46			0	0.162	0.135	0.031	0.123	0.007	0.012	
6/26/2019 16:47			0	0.162	0.134	0.031	0.125	0.008	0.012	
6/26/2019 16:48			0	0.162	0.132	0.032	0.143	0.008	0.011	
6/26/2019 16:49			0	0.162	0.132	0.032	0.135	0.008	0.012	
6/26/2019 16:50	12.4	89.1	0	0.162	0.131	0.032	0.142	0.008	0.011	
6/26/2019 16:51			0	0.162	0.131	0.032	0.136	0.008	0.012	
6/26/2019 16:52			0	0.162	0.13	0.033	0.14	0.008	0.012	
6/26/2019 16:53			0	0.162	0.13	0.033	0.127	0.008	0.012	
6/26/2019 16:54			0	0.162	0.13	0.033	0.135	0.008	0.012	
6/26/2019 16:55	12.4	88.1	0	0.162	0.13	0.033	0.126	0.008	0.012	
6/26/2019 16:56			0	0.162	0.13	0.034	0.12	0.008	0.015	
6/26/2019 16:57			0	0.162	0.13	0.034	0.128	0.008	0.011	
6/26/2019 16:58			0	0.162	0.129	0.034	0.13	0.008	0.012	
6/26/2019 16:59			0	0.162	0.13	0.035	0.131	0.008	0.011	
6/26/2019 17:00	12.4	89.1	0	0.162	0.129	0.035	0.125	0.008	0.012	
6/26/2019 17:01			0	0.162	0.129	0.035	0.117	0.008	0.011	
6/26/2019 17:02			0	0.162	0.129	0.035	0.142	0.008	0.017	
6/26/2019 17:03			0	0.162	0.129	0.036	0.138	0.008	0.028	
6/26/2019 17:04			0	0.162	0.129	0.036	0.126	0.008	0.018	
6/26/2019 17:05	12.3	124.5	0	0.162	0.128	0.036	0.133	0.008	0.013	
6/26/2019 17:06			0	0.162	0.128	0.036	0.14	0.008	0.013	
6/26/2019 17:07			0	0.162	0.128	0.037	0.125	0.008	0.03	
6/26/2019 17:08			0	0.162	0.128	0.037	0.131	0.008	0.021	
6/26/2019 17:09			0	0.162	0.128	0.037	0.137	0.008	0.014	
6/26/2019 17:10	12.4	90.1	0	0.162	0.128	0.037	0.136	0.008	0.015	
6/26/2019 17:11			0	0.162	0.129	0.038	0.136	0.008	0.021	
6/26/2019 17:12			0	0.162	0.129	0.038	0.131	0.008	0.017	
6/26/2019 17:13			0	0.162	0.13	0.038	0.13	0.008	0.017	
6/26/2019 17:14			0	0.162	0.13	0.039	0.146	0.008	0.013	
6/26/2019 17:15	12.4	90.1	0	0.162	0.131	0.039	0.121	0.008	0.012	
6/26/2019 17:16			0	0.162	0.131	0.039	0.139	0.008	0.012	
6/26/2019 17:17			0	0.162	0.131	0.039	0.126	0.008	0.013	
6/26/2019 17:18			0	0.172	0.131	0.04	0.134	0.008	0.013	
6/26/2019 17:19			0	0.172	0.131	0.04	0.132	0.008	0.014	
6/26/2019 17:20	12.3	87	0	0.172	0.132	0.04	0.121	0.009	0.012	
6/26/2019 17:21			0	0.172	0.132	0.041	0.116	0.009	0.013	
6/26/2019 17:22			0	0.172	0.132	0.041	0.131	0.009	0.013	
6/26/2019 17:23			0	0.172	0.132	0.041	0.126	0.009	0.012	
6/26/2019 17:24			0	0.172	0.132	0.041	0.115	0.009	0.013	
6/26/2019 17:25	12.3	109.3	0	0.172	0.131	0.042	0.138	0.009	0.012	
6/26/2019 17:26			0	0.172	0.131	0.042	0.118	0.009	0.012	
6/26/2019 17:27			0	0.172	0.13	0.042	0.117	0.009	0.013	
6/26/2019 17:28			0	0.172	0.129	0.042	0.121	0.009	0.012	
6/26/2019 17:29			0	0.172	0.128	0.043	0.118	0.009	0.012	
6/26/2019 17:30	12.3	90.1	0	0.172	0.127	0.043	0.138	0.009	0.012	
6/26/2019 17:31			0	0.172	0.127	0.043	0.131	0.009	0.016	
6/26/2019 17:32			0	0.172	0.127	0.043	0.124	0.009	0.013	
6/26/2019 17:33			0	0.172	0.127	0.044	0.133	0.009	0.012	
6/26/2019 17:34			0	0.273	0.127	0.044	0.124	0.009	0.026	
6/26/2019 17:35	12.3	91.1	0	0.273	0.128	0.044	0.109	0.009	0.018	
6/26/2019 17:36			0	0.273	0.127	0.045	0.123	0.009	0.012	
6/26/2019 17:37			0	0.273	0.127	0.045	0.121	0.009	0.012	
6/26/2019 17:38			0	0.273	0.127	0.045	0.127	0.009	0.012	
6/26/2019 17:39			0	0.273	0.127	0.045	0.129	0.009	0.012	
6/26/2019 17:40	12.3	101.2	0	0.273	0.127	0.046	0.134	0.009	0.033	
6/26/2019 17:41			0	0.273	0.128	0.046	0.145	0.009	0.023	
6/26/2019 17:42			0	0.273	0.129	0.046	0.123	0.009	0.014	
6/26/2019 17:43			0	0.273	0.129	0.046	0.129	0.009	0.015	
6/26/2019 17:44			0	0.273	0.13	0.047	0.133	0.009	0.012	
6/26/2019 17:45	12.3	89.1	0	0.273	0.131	0.047	0.125	0.009	0.012	
6/26/2019 17:46			0	0.273	0.131	0.047	0.145	0.009	0.012	
6/26/2019 17:47			0	0.273	0.131	0.048	0.133	0.009	0.012	
6/26/2019 17:48			0	0.273	0.132	0.048	0.137	0.009	0.012	
6/26/2019 17:49			0	0.273	0.132	0.048	0.159	0.009	0.012	
6/26/2019 17:50	12.3	89.1	0	0.273	0.131	0.048	0.139	0.009	0.059	
6/26/2019 17:51			0	0.273	0.132	0.049	0.143	0.01	0.012	
6/26/2019 17:52			0	0.273	0.133	0.049	0.138	0.01	0.011	
6/26/2019 17:53			0	0.273	0.134	0.049	0.133	0.01	0.011	
6/26/2019 17:54			0	0.273	0.134	0.049	0.142	0.01	0.012	
6/26/2019 17:55	12.3	90.1	0	0.273	0.134	0.05	0.146	0.01	0.014	
6/26/2019 17:56			0	0.273	0.134	0.05	0.138	0.01	0.016	
6/26/2019 17:57			0	0.273	0.134	0.05	0.138	0.01	0.013	
6/26/2019 17:58			0	0.273	0.134	0.051	0.14	0.01	0.012	
6/26/2019 17:59			0	0.273	0.134	0.051	0.145	0.01	0.012	
6/26/2019 18:00	12.3	88.1	0	0.273	0.135	0.051	0.132	0.01	0.012	
6/26/2019 18:01			0	0.273	0.135	0.051	0.147	0.01	0.012	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/26/2019 18:02			0	0.273	0.135	0.052	0.132	0.01	0.014	
6/26/2019 18:03			0	0.273	0.135	0.052	0.139	0.01	0.011	
6/26/2019 18:04			0	0.273	0.136	0.052	0.142	0.01	0.012	
6/26/2019 18:05	12.3	96.2	0	0.273	0.136	0.053	0.14	0.01	0.011	
6/26/2019 18:06			0	0.273	0.136	0.053	0.138	0.01	0.011	
6/26/2019 18:07			0	0.273	0.136	0.053	0.143	0.01	0.014	
6/26/2019 18:08			0	0.273	0.137	0.054	0.156	0.01	0.015	
6/26/2019 18:09			0	0.273	0.138	0.054	0.147	0.01	0.012	
6/26/2019 18:10	12.3	89.1	0	0.273	0.138	0.054	0.145	0.01	0.013	
6/26/2019 18:11			0	0.273	0.139	0.054	0.138	0.01	0.018	
6/26/2019 18:12			0	0.273	0.139	0.055	0.142	0.01	0.014	
6/26/2019 18:13			0	0.273	0.138	0.055	0.127	0.01	0.013	
6/26/2019 18:14			0	0.273	0.138	0.055	0.136	0.01	0.011	
6/26/2019 18:15	12.3	89.1	0	0.273	0.137	0.056	0.131	0.01	0.011	
6/26/2019 18:16			0	0.273	0.137	0.056	0.123	0.01	0.011	
6/26/2019 18:17			0	0.273	0.136	0.056	0.11	0.01	0.011	
6/26/2019 18:18			0	0.273	0.135	0.056	0.134	0.01	0.011	
6/26/2019 18:19			0	0.273	0.135	0.057	0.144	0.01	0.011	
6/26/2019 18:20	12.3	90.1	0	0.273	0.135	0.057	0.152	0.01	0.025	
6/26/2019 18:21			0	0.273	0.136	0.057	0.144	0.01	0.028	
6/26/2019 18:22			0	0.273	0.135	0.057	0.142	0.01	0.014	
6/26/2019 18:23			0	0.273	0.135	0.058	0.147	0.01	0.013	
6/26/2019 18:24			0	0.273	0.134	0.058	0.137	0.01	0.012	
6/26/2019 18:25	12.3	90.1	0	0.273	0.134	0.058	0.133	0.01	0.011	
6/26/2019 18:26			0	0.273	0.133	0.059	0.143	0.01	0.01	
6/26/2019 18:27			0	0.273	0.133	0.059	0.133	0.011	0.011	
6/26/2019 18:28			0	0.273	0.133	0.059	0.133	0.011	0.011	
6/26/2019 18:29			0	0.273	0.133	0.059	0.138	0.011	0.011	
6/26/2019 18:30	12.3	89.1	0	0.273	0.134	0.06	0.125	0.011	0.01	
6/26/2019 18:30										42.433630199999996;-76.4985927
6/26/2019 18:31			0	0.273	0.134	0.06	0.126	0.011	0.011	
6/26/2019 18:32			0	0.273	0.134	0.06	0.126	0.011	0.011	
6/26/2019 18:33			0	0.273	0.135	0.061	0.132	0.011	0.011	
6/26/2019 18:34			0	0.273	0.135	0.061	0.119	0.011	0.011	
6/26/2019 18:35	12.3	89.1	0	0.273	0.133	0.061	0.127	0.011	0.011	
6/26/2019 18:36			0	0.273	0.132	0.061	0.113	0.011	0.012	
6/26/2019 18:37			0	0.273	0.131	0.062	0.137	0.011	0.011	
6/26/2019 18:38			0	0.273	0.131	0.062	0.125	0.011	0.011	
6/26/2019 18:39			0	0.273	0.13	0.062	0.127	0.011	0.011	
6/26/2019 18:40	12.3	89.1	0	0.273	0.13	0.062	0.126	0.011	0.011	
6/26/2019 18:41			0	0.273	0.13	0.063	0.12	0.011	0.011	
6/26/2019 18:42			0	0.273	0.129	0.063	0.143	0.011	0.011	
6/26/2019 18:43			0	0.273	0.129	0.063	0.123	0.011	0.01	
6/26/2019 18:44			0	0.273	0.128	0.063	0.124	0.011	0.01	
6/26/2019 18:45	12.3	89.1	0	0.273	0.128	0.064	0.126	0.011	0.01	
6/26/2019 18:46			0	0.273	0.127	0.064	0.121	0.011	0.01	
6/26/2019 18:47			0	0.273	0.127	0.064	0.129	0.011	0.01	
6/26/2019 18:48			0	0.273	0.127	0.065	0.129	0.011	0.01	
6/26/2019 18:49			0	0.273	0.127	0.065	0.13	0.011	0.011	
6/26/2019 18:50	12.3	88.1	0	0.273	0.127	0.065	0.132	0.011	0.01	
6/26/2019 18:51			0	0.273	0.127	0.065	0.13	0.011	0.011	
6/26/2019 18:52			0	0.273	0.127	0.066	0.12	0.011	0.011	
6/26/2019 18:53			0	0.273	0.127	0.066	0.119	0.011	0.011	
6/26/2019 18:54			0	0.273	0.126	0.066	0.126	0.011	0.011	
6/26/2019 18:55	12.3	89.1	0	0.273	0.125	0.066	0.125	0.011	0.012	
6/26/2019 18:56			0	0.273	0.125	0.067	0.133	0.011	0.011	
6/26/2019 18:57			0	0.273	0.125	0.067	0.125	0.011	0.011	
6/26/2019 18:58			0	0.273	0.125	0.067	0.129	0.011	0.011	
6/26/2019 18:59			0	0.273	0.125	0.067	0.133	0.011	0.011	
6/26/2019 19:00	12.3	90.1	0	0.273	0.125	0.068	0.122	0.011	0.011	
6/26/2019 19:01			0	0.273	0.126	0.068	0.127	0.011	0.011	
6/26/2019 19:02			0	0.273	0.126	0.068	0.124	0.011	0.011	
6/26/2019 19:03			0	0.273	0.126	0.068	0.126	0.011	0.012	
6/26/2019 19:04			0	0.273	0.126	0.069	0.125	0.011	0.011	
6/26/2019 19:05	12.3	91.1	0	0.273	0.126	0.069	0.112	0.011	0.011	
6/26/2019 19:06			0	0.273	0.126	0.069	0.114	0.011	0.012	
6/26/2019 19:07			0	0.273	0.125	0.069	0.126	0.011	0.013	
6/26/2019 19:08			0	0.273	0.125	0.07	0.143	0.011	0.012	
6/26/2019 19:09			0	0.273	0.125	0.07	0.13	0.011	0.011	
6/26/2019 19:10	12.3	88.1	0	0.273	0.125	0.07	0.149	0.011	0.011	
6/26/2019 19:11			0	0.273	0.126	0.071	0.133	0.012	0.01	
6/26/2019 19:12			0	0.273	0.126	0.071	0.137	0.012	0.011	
6/26/2019 19:13			0	0.273	0.127	0.071	0.136	0.012	0.009	
6/26/2019 19:14			0	0.273	0.127	0.071	0.118	0.012	0.011	
6/26/2019 19:15	12.3	90.1	0	0.273	0.127	0.072	0.127	0.012	0.012	
6/26/2019 19:16			0	0.273	0.127	0.072	0.137	0.012	0.012	
6/26/2019 19:17			0	0.273	0.127	0.072	0.139	0.012	0.013	
6/26/2019 19:18			0	0.273	0.127	0.072	0.138	0.012	0.012	
6/26/2019 19:19			0	0.273	0.127	0.073	0.145	0.012	0.012	
6/26/2019 19:20	12.3	89.1	0	0.273	0.127	0.073	0.134	0.012	0.012	
6/26/2019 19:21			0	0.273	0.128	0.073	0.14	0.012	0.016	
6/26/2019 19:22			0	0.273	0.129	0.074	0.139	0.012	0.011	
6/26/2019 19:23			0	0.273	0.13	0.074	0.142	0.012	0.011	
6/26/2019 19:24			0	0.273	0.131	0.074	0.132	0.012	0.011	
6/26/2019 19:25	12.3	90.1	0	0.273	0.132	0.074	0.155	0.012	0.011	
6/26/2019 19:26			0	0.273	0.133	0.075	0.125	0.012	0.01	
6/26/2019 19:27			0	0.273	0.133	0.075	0.144	0.012	0.011	
6/26/2019 19:28			0	0.273	0.134	0.075	0.112	0.012	0.01	
6/26/2019 19:29			0	0.273	0.135	0.076	0.126	0.012	0.01	
6/26/2019 19:30	12.3	89.1	0	0.273	0.135	0.076	0.144	0.012	0.011	
6/26/2019 19:31			0	0.273	0.136	0.076	0.151	0.012	0.01	
6/26/2019 19:32			0	0.273	0.138	0.076	0.149	0.012	0.009	
6/26/2019 19:33			0	0.273	0.139	0.077	0.151	0.012	0.009	
6/26/2019 19:34			0	0.273	0.14	0.077	0.142	0.012	0.009	
6/26/2019 19:35	12.3	89.1	0	0.273	0.142	0.077	0.163	0.012	0.01	
6/26/2019 19:36			0	0.273	0.144	0.078	0.156	0.012	0.009	
6/26/2019 19:37			0	0.273	0.145	0.078	0.144	0.012	0.009	
6/26/2019 19:38			0	0.273	0.147	0.078	0.159	0.012	0.009	
6/26/2019 19:39			0	0.273	0.148	0.079	0.164	0.012	0.011	
6/26/2019 19:40	12.3	90.1	0	0.273	0.15	0.079	0.176	0.012	0.01	
6/26/2019 19:40										42.433651499999996;-76.4987338
6/26/2019 19:41			0	0.273	0.151	0.079	0.158	0.012	0.01	
6/26/2019 19:42			0	0.273	0.152	0.08	0.163	0.012	0.01	
6/26/2019 19:43			0	0.273	0.153	0.08	0.158	0.012	0.011	
6/26/2019 19:44			0	0.273	0.154	0.08	0.155	0.012	0.01	
6/26/2019 19:45	12.2	89.1	0	0.273	0.155	0.081	0.154	0.012	0.01	
6/26/2019 19:46			0	0.273	0.156	0.081	0.144	0.012	0.01	
6/26/2019 19:47			0	0.436	0.156	0.081	0.145	0.012	0.019	
6/26/2019 19:48			0	0.436	0.158	0.082	0.145	0.012	0.011	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/26/2019 19:49			0	0.436	0.158	0.082	0.132	0.012	0.011	
6/26/2019 19:50	12.2	90.1	0	0.436	0.157	0.082	0.153	0.012	0.011	
6/26/2019 19:51			0	0.436	0.156	0.083	0.145	0.012	0.012	
6/26/2019 19:52			0	0.436	0.155	0.083	0.145	0.012	0.013	
6/26/2019 19:53			0	0.436	0.155	0.083	0.139	0.012	0.011	
6/26/2019 19:54			0	0.436	0.154	0.084	0.142	0.012	0.01	
6/26/2019 19:55	12.2	89.1	0	0.436	0.153	0.084	0.142	0.013	0.011	
6/26/2019 19:56			0	0.436	0.152	0.084	0.15	0.013	0.011	
6/26/2019 19:57			0	0.436	0.151	0.084	0.16	0.013	0.011	
6/26/2019 19:58			0	0.436	0.15	0.085	0.157	0.013	0.012	
6/26/2019 19:59			0	0.436	0.15	0.085	0.144	0.013	0.012	
6/26/2019 20:00	12.2	89.1	0	0.436	0.149	0.085	0.136	0.013	0.012	
6/26/2019 20:01			0	0.436	0.149	0.086	0.131	0.013	0.011	
6/26/2019 20:02			0	0.436	0.148	0.086	0.155	0.013	0.011	
6/26/2019 20:03			0	0.436	0.146	0.086	0.144	0.013	0.012	
6/26/2019 20:04			0	0.436	0.146	0.087	0.147	0.013	0.011	
6/26/2019 20:05	12.2	127.5	0	0.436	0.146	0.087	0.138	0.013	0.011	
6/26/2019 20:06			0	0.436	0.145	0.087	0.138	0.013	0.011	
6/26/2019 20:07			0	0.436	0.145	0.087	0.15	0.013	0.011	
6/26/2019 20:08			0	0.436	0.145	0.088	0.151	0.013	0.011	
6/26/2019 20:09			0	0.436	0.145	0.088	0.162	0.013	0.011	
6/26/2019 20:10	12.2	90.1	0	0.436	0.145	0.088	0.149	0.013	0.011	
6/26/2019 20:11			0	0.436	0.145	0.089	0.158	0.013	0.011	
6/26/2019 20:12			0	0.436	0.146	0.089	0.154	0.013	0.01	
6/26/2019 20:13			0	0.436	0.146	0.089	0.152	0.013	0.01	
6/26/2019 20:14			0	0.436	0.145	0.09	0.159	0.013	0.011	
6/26/2019 20:15	12.2	90.1	0	0.436	0.145	0.09	0.145	0.013	0.011	
6/26/2019 20:16			0	0.436	0.146	0.09	0.154	0.013	0.01	
6/26/2019 20:17			0	0.436	0.147	0.091	0.146	0.013	0.011	
6/26/2019 20:18			0	0.436	0.147	0.091	0.152	0.013	0.01	
6/26/2019 20:19			0	0.436	0.147	0.091	0.148	0.013	0.01	
6/26/2019 20:20	12.2	90.1	0	0.436	0.147	0.092	0.159	0.013	0.011	
6/26/2019 20:21			0	0.436	0.148	0.092	0.14	0.013	0.011	
6/26/2019 20:22			0	0.436	0.148	0.092	0.158	0.013	0.013	
6/27/2019 11:33	12.8	136.6								
6/27/2019 11:33										42.433602199999996;-76.49851
6/27/2019 11:34			0	0.104	0	0	0.074			
6/27/2019 11:35	12.7	114.4	0	0.104	0	0	0.044			42.43328;-76.49778
6/27/2019 11:36			0	0.104	0	0	0.043	0	0.02	
6/27/2019 11:37			0	0.104	0	0	0.051	0	0.019	
6/27/2019 11:38			0	0.104	0	0	0.033	0	0.019	
6/27/2019 11:39			0	0.104	0	0	0.039	0	0.019	
6/27/2019 11:40	12.7	96.2	0	0.104	0	0	0.041	0	0.018	42.43322;-76.49783
6/27/2019 11:41			0	0.104	0	0	0.044	0	0.018	
6/27/2019 11:42			0	0.104	0	0	0.041	0	0.018	
6/27/2019 11:43			0	0.104	0	0	0.029	0	0.018	
6/27/2019 11:44			0	0.104	0	0	0.038	0	0.018	
6/27/2019 11:45	12.7	96.2	0	0.104	0	0.001	0.036	0	0.017	
6/27/2019 11:45										42.43317;-76.49789
6/27/2019 11:46			0	0.104	0	0.001	0.033	0	0.017	
6/27/2019 11:47			0	0.104	0	0.001	0.028	0	0.017	
6/27/2019 11:48			0	0.104	0.04	0.001	0.034	0	0.016	
6/27/2019 11:49			0	0.104	0.038	0.001	0.036	0	0.016	
6/27/2019 11:50	12.7	97.2	0	0.104	0.037	0.001	0.032	0	0.016	
6/27/2019 11:50										42.43318;-76.49785
6/27/2019 11:51			0	0.104	0.036	0.001	0.043	0.001	0.016	
6/27/2019 11:52			0	0.104	0.036	0.001	0.032	0.001	0.016	
6/27/2019 11:53			0	0.104	0.035	0.001	0.046	0.001	0.016	
6/27/2019 11:54			0	0.104	0.035	0.001	0.035	0.001	0.016	
6/27/2019 11:55	12.6	97.2	0	0.104	0.035	0.001	0.033	0.001	0.015	
6/27/2019 11:55										42.43324;-76.4978
6/27/2019 11:56			0	0.104	0.034	0.001	0.033	0.001	0.015	
6/27/2019 11:57			0	0.104	0.034	0.001	0.039	0.001	0.016	
6/27/2019 11:58			0	0.104	0.034	0.001	0.047	0.001	0.015	
6/27/2019 11:59			0	0.104	0.035	0.002	0.033	0.001	0.016	
6/27/2019 12:00	12.6	97.2	0	0.104	0.035	0.002	0.035	0.001	0.015	42.43328;-76.49786
6/27/2019 12:01			0	0.104	0.034	0.002	0.025	0.001	0.015	
6/27/2019 12:02			0	0.104	0.034	0.002	0.025	0.001	0.015	
6/27/2019 12:03			0	0.104	0.033	0.002	0.017	0.001	0.015	
6/27/2019 12:04			0	0.104	0.032	0.002	0.012	0.001	0.015	
6/27/2019 12:05	12.6	97.2	0	0.104	0.031	0.002	0.025	0.001	0.015	42.43324;-76.49776
6/27/2019 12:06			0	0.104	0.03	0.002	0.019	0.001	0.015	
6/27/2019 12:07			0	0.104	0.029	0.002	0.025	0.001	0.015	
6/27/2019 12:08			0	0.104	0.029	0.002	0.028	0.001	0.015	
6/27/2019 12:09			0	0.104	0.028	0.002	0.029	0.001	0.015	
6/27/2019 12:10	12.6	101.2	0	0.104	0.027	0.002	0.021	0.001	0.015	42.4332;-76.4977
6/27/2019 12:11			0	0.104	0.026	0.002	0.024	0.001	0.015	
6/27/2019 12:12			0	0.104	0.026	0.002	0.026	0.001	0.015	
6/27/2019 12:13			0	0.104	0.024	0.002	0.026	0.001	0.015	
6/27/2019 12:14			0	0.104	0.024	0.002	0.022	0.001	0.016	
6/27/2019 12:15	12.6	98.2	0	0.104	0.023	0.002	0.023	0.001	0.016	42.43319;-76.49769
6/27/2019 12:16			0	0.104	0.023	0.002	0.039	0.001	0.015	
6/27/2019 12:17			0	0.104	0.023	0.002	0.028	0.001	0.015	
6/27/2019 12:18			0	0.104	0.023	0.003	0.021	0.001	0.015	
6/27/2019 12:19			0	0.104	0.023	0.003	0.031	0.001	0.015	
6/27/2019 12:20	12.6	122.5	0	0.104	0.023	0.003	0.019	0.002	0.015	42.43326;-76.49775
6/27/2019 12:21			0	0.104	0.022	0.003	0.012	0.002	0.015	
6/27/2019 12:22			0	0.104	0.022	0.003	0.022	0.002	0.015	
6/27/2019 12:23			0	0.104	0.022	0.003	0.025	0.002	0.015	
6/27/2019 12:24			0	0.104	0.022	0.003	0.022	0.002	0.015	
6/27/2019 12:25	12.6	104.3	0	0.104	0.022	0.003	0.025	0.002	0.015	42.43329;-76.49775
6/27/2019 12:26			0	0.104	0.022	0.003	0.031	0.002	0.015	
6/27/2019 12:27			0	0.104	0.023	0.003	0.027	0.002	0.015	
6/27/2019 12:28			0	0.104	0.023	0.003	0.023	0.002	0.015	
6/27/2019 12:29			0	0.104	0.023	0.003	0.03	0.002	0.015	
6/27/2019 12:30	12.6	102.2	0	0.104	0.023	0.003	0.026	0.002	0.015	42.43324;-76.49782
6/27/2019 12:31			0	0.104	0.024	0.003	0.019	0.002	0.016	
6/27/2019 12:32			0	0.104	0.023	0.003	0.019	0.002	0.017	
6/27/2019 12:33			0	0.104	0.023	0.003	0.019	0.002	0.017	
6/27/2019 12:34			0	0.104	0.023	0.003	0.028	0.002	0.016	
6/27/2019 12:35	12.6	104.3	0	0.104	0.023	0.003	0.017	0.002	0.017	42.4332;-76.49775
6/27/2019 12:36			0	0.104	0.023	0.003	0.013	0.002	0.016	
6/27/2019 12:37			0	0.104	0.023	0.003	0.023	0.002	0.017	
6/27/2019 12:38			0	0.104	0.023	0.003	0.021	0.002	0.018	
6/27/2019 12:39			0	0.104	0.023	0.004	0.034	0.002	0.018	
6/27/2019 12:40	12.6	98.2	0	0.104	0.024	0.004	0.024	0.002	0.017	42.43314;-76.49773
6/27/2019 12:41			0	0.104	0.024	0.004	0.025	0.002	0.017	
6/27/2019 12:42			0	0.104	0.023	0.004	0.02	0.002	0.016	
6/27/2019 12:43			0	0.104	0.023	0.004	0.015	0.002	0.016	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/27/2019 12:44			0	0.104	0.023	0.004	0.036	0.002	0.017	
6/27/2019 12:45	12.6	106.3	0	0.104	0.023	0.004	0.033	0.002	0.016	42.43314;-76.4977
6/27/2019 12:46			0	0.104	0.023	0.004	0.018	0.002	0.016	
6/27/2019 12:47			0	0.104	0.022	0.004	0.017	0.002	0.015	
6/27/2019 12:48			0	0.104	0.022	0.004	0.009	0.002	0.015	
6/27/2019 12:49			0	0.104	0.022	0.004	0.026	0.002	0.015	
6/27/2019 12:50	12.6	97.2	0	0.104	0.022	0.004	0.026	0.002	0.015	42.43321;-76.49771
6/27/2019 12:51			0	0.104	0.023	0.004	0.03	0.003	0.016	
6/27/2019 12:52			0	0.104	0.023	0.004	0.029	0.003	0.016	
6/27/2019 12:53			0	0.104	0.023	0.004	0.031	0.003	0.016	
6/27/2019 12:54			0	0.104	0.022	0.004	0.034	0.003	0.015	
6/27/2019 12:55	12.6	110.3	0	0.104	0.022	0.004	0.017	0.003	0.016	42.43324;-76.49772
6/27/2019 12:56			0	0.104	0.022	0.004	0.014	0.003	0.015	
6/27/2019 12:57			0	0.104	0.022	0.004	0.027	0.003	0.015	
6/27/2019 12:58			0	0.104	0.022	0.004	0.018	0.003	0.016	
6/27/2019 12:59			0	0.104	0.022	0.005	0.03	0.003	0.016	
6/27/2019 13:00	12.6	98.2	0	0.104	0.022	0.005	0.016	0.003	0.016	42.43321;-76.49783
6/27/2019 13:01			0	0.104	0.023	0.005	0.026	0.003	0.016	
6/27/2019 13:02			0	0.104	0.024	0.005	0.036	0.003	0.016	
6/27/2019 13:03			0	0.104	0.025	0.005	0.034	0.003	0.016	
6/27/2019 13:04			0	0.104	0.026	0.005	0.026	0.003	0.017	
6/27/2019 13:05	12.6	111.3	0	0.104	0.026	0.005	0.032	0.003	0.018	42.43319;-76.4977
6/27/2019 13:06			0	0.104	0.026	0.005	0.04	0.003	0.017	
6/27/2019 13:07			0	0.104	0.026	0.005	0.026	0.003	0.016	
6/27/2019 13:08			0	0.104	0.027	0.005	0.033	0.003	0.016	
6/27/2019 13:09			0	0.104	0.027	0.005	0.017	0.003	0.015	
6/27/2019 13:10	12.6	99.2	0	0.104	0.026	0.005	0.011	0.003	0.015	42.43321;-76.49778
6/27/2019 13:11			0	0.104	0.026	0.005	0.038	0.003	0.016	
6/27/2019 13:12			0	0.104	0.027	0.005	0.028	0.003	0.015	
6/27/2019 13:13			0	0.104	0.027	0.005	0.027	0.003	0.016	
6/27/2019 13:14			0	0.104	0.027	0.005	0.026	0.003	0.016	
6/27/2019 13:15	12.6	108.3	0	0.104	0.027	0.005	0.019	0.003	0.016	42.43318;-76.49775
6/27/2019 13:16			0	0.104	0.026	0.005	0.035	0.003	0.016	
6/27/2019 13:17			0	0.104	0.026	0.006	0.029	0.003	0.016	
6/27/2019 13:18			0	0.104	0.025	0.006	0.026	0.003	0.016	
6/27/2019 13:19			0	0.104	0.025	0.006	0.026	0.003	0.016	
6/27/2019 13:20	12.6	102.2	0	0.104	0.025	0.006	0.021	0.003	0.017	42.43324;-76.49775
6/27/2019 13:21			0	0.104	0.024	0.006	0.029	0.004	0.016	
6/27/2019 13:22			0	0.104	0.024	0.006	0.025	0.004	0.016	
6/27/2019 13:23			0	0.104	0.024	0.006	0.019	0.004	0.016	
6/27/2019 13:24			0	0.104	0.024	0.006	0.046	0.004	0.017	
6/27/2019 13:25	12.6	98.2	0	0.104	0.025	0.006	0.023	0.004	0.017	
6/27/2019 13:25										42.43324;-76.49774
6/27/2019 13:26			0	0.104	0.025	0.006	0.023	0.004	0.017	
6/27/2019 13:27			0	0.104	0.024	0.006	0.033	0.004	0.017	
6/27/2019 13:28			0	0.104	0.025	0.006	0.04	0.004	0.017	
6/27/2019 13:29			0	0.104	0.025	0.006	0.035	0.004	0.016	
6/27/2019 13:30	12.6	93.1	0	0.104	0.026	0.006	0.034	0.004	0.017	
6/27/2019 13:30										42.43322;-76.49775
6/27/2019 13:31			0	0.104	0.026	0.006	0.028	0.004	0.017	
6/27/2019 13:32			0	0.104	0.026	0.006	0.029	0.004	0.017	
6/27/2019 13:33			0	0.104	0.027	0.006	0.024	0.004	0.017	
6/27/2019 13:34			0	0.104	0.027	0.006	0.019	0.004	0.017	
6/27/2019 13:35	12.6	111.3	0	0.104	0.027	0.007	0.018	0.004	0.017	
6/27/2019 13:35										42.43318;-76.49769
6/27/2019 13:36			0	0.104	0.027	0.007	0.02	0.004	0.017	
6/27/2019 13:37			0	0.104	0.026	0.007	0.016	0.004	0.017	
6/27/2019 13:38			0	0.104	0.025	0.007	0.026	0.004	0.017	
6/27/2019 13:39			0	0.104	0.026	0.007	0.025	0.004	0.017	
6/27/2019 13:40	12.6	100.2	0	0.104	0.026	0.007	0.029	0.004	0.018	
6/27/2019 13:40										42.43317;-76.49773
6/27/2019 13:41			0	0.104	0.026	0.007	0.028	0.004	0.018	
6/27/2019 13:42			0	0.104	0.026	0.007	0.035	0.004	0.018	
6/27/2019 13:43			0	0.104	0.025	0.007	0.026	0.004	0.018	
6/27/2019 13:44			0	0.104	0.025	0.007	0.033	0.004	0.018	
6/27/2019 13:45	12.6	107.3	0	0.104	0.025	0.007	0.026	0.004	0.018	
6/27/2019 13:45										42.43321;-76.49769
6/27/2019 13:46			0	0.104	0.025	0.007	0.034	0.004	0.018	
6/27/2019 13:47			0	0.104	0.025	0.007	0.041	0.004	0.018	
6/27/2019 13:48			0	0.104	0.025	0.007	0.034	0.005	0.017	
6/27/2019 13:49			0	0.104	0.026	0.007	0.031	0.005	0.017	
6/27/2019 13:50	12.6	102.2	0	0.104	0.026	0.007	0.029	0.005	0.017	
6/27/2019 13:50										42.4332;-76.49774
6/27/2019 13:51			0	0.104	0.027	0.007	0.037	0.005	0.018	
6/27/2019 13:52			0	0.104	0.029	0.008	0.045	0.005	0.017	
6/27/2019 13:53			0	0.104	0.031	0.008	0.047	0.005	0.017	
6/27/2019 13:54			0	0.104	0.032	0.008	0.047	0.005	0.019	
6/27/2019 13:55	12.5	108.3	0	0.104	0.033	0.008	0.052	0.005	0.018	
6/27/2019 13:55										42.43318;-76.49768
6/27/2019 13:56			0	0.104	0.034	0.008	0.037	0.005	0.017	
6/27/2019 13:57			0	0.104	0.035	0.008	0.047	0.005	0.017	
6/27/2019 13:58			0	0.104	0.037	0.008	0.036	0.005	0.017	
6/27/2019 13:59			0	0.104	0.037	0.008	0.043	0.005	0.017	
6/27/2019 14:00	12.5	98.2	0	0.104	0.038	0.008	0.045	0.005	0.018	
6/27/2019 14:00										42.43321;-76.49776
6/27/2019 14:01			0	0.104	0.039	0.008	0.043	0.005	0.017	
6/27/2019 14:02			0	0.104	0.04	0.008	0.051	0.005	0.018	
6/27/2019 14:03			0	0.104	0.041	0.009	0.058	0.005	0.017	
6/27/2019 14:04			0	0.104	0.043	0.009	0.061	0.005	0.018	
6/27/2019 14:05	12.5	98.2	0	0.104	0.045	0.009	0.057	0.005	0.017	
6/27/2019 14:05										42.43319;-76.49786
6/27/2019 14:06			0	0.104	0.046	0.009	0.041	0.005	0.018	
6/27/2019 14:07			0	0.104	0.046	0.009	0.052	0.005	0.018	
6/27/2019 14:08			0	0.104	0.046	0.009	0.056	0.005	0.018	
6/27/2019 14:09			0	0.104	0.047	0.009	0.057	0.005	0.018	
6/27/2019 14:10	12.5	97.2	0	0.104	0.048	0.009	0.044	0.005	0.018	
6/27/2019 14:10										42.43317;-76.4978
6/27/2019 14:11			0	0.104	0.048	0.009	0.049	0.005	0.018	
6/27/2019 14:12			0	0.104	0.047	0.009	0.047	0.005	0.018	
6/27/2019 14:13			0	0.104	0.048	0.01	0.053	0.005	0.019	
6/27/2019 14:14			0	0.104	0.049	0.01	0.057	0.005	0.017	
6/27/2019 14:15	12.5	103.2	0	0.104	0.05	0.01	0.057	0.005	0.017	
6/27/2019 14:15										42.43322;-76.49767
6/27/2019 14:16			0	0.104	0.051	0.01	0.075	0.006	0.018	
6/27/2019 14:17			0	0.104	0.053	0.01	0.068	0.006	0.017	
6/27/2019 14:18			0	0.104	0.055	0.01	0.073	0.006	0.019	
6/27/2019 14:19			0	0.104	0.056	0.01	0.078	0.006	0.017	
6/27/2019 14:20	12.5	104.3	0	0.104	0.057	0.011	0.076	0.006	0.017	
6/27/2019 14:20										42.43322;-76.49774

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/27/2019 14:21			0	0.104	0.058	0.011	0.075	0.006	0.017	
6/27/2019 14:22			0	0.104	0.06	0.011	0.082	0.006	0.017	
6/27/2019 14:23			0	0.104	0.062	0.011	0.071	0.006	0.017	
6/27/2019 14:24			0	0.104	0.064	0.011	0.081	0.006	0.016	
6/27/2019 14:25	12.5	103.2	0	0.104	0.066	0.011	0.075	0.006	0.016	
6/27/2019 14:25										42.43322;-76.49772
6/27/2019 14:26			0	0.107	0.068	0.012	0.094	0.006	0.015	
6/27/2019 14:27			0	0.107	0.071	0.012	0.086	0.006	0.015	
6/27/2019 14:28			0	0.107	0.075	0.012	0.099	0.006	0.016	
6/27/2019 14:29			0	0.111	0.078	0.012	0.111	0.006	0.015	
6/27/2019 14:30	12.5	97.2	0	0.143	0.081	0.012	0.107	0.006	0.016	
6/27/2019 14:30										42.43312;-76.49767
6/27/2019 14:31			0	0.143	0.084	0.013	0.106	0.006	0.014	
6/27/2019 14:32			0	0.143	0.086	0.013	0.116	0.006	0.015	
6/27/2019 14:33			0	0.143	0.089	0.013	0.117	0.006	0.015	
6/27/2019 14:34			0	0.143	0.092	0.013	0.121	0.006	0.014	
6/27/2019 14:35	12.5	106.3	0	0.143	0.094	0.014	0.111	0.006	0.014	
6/27/2019 14:35										42.43316;-76.4977
6/27/2019 14:36			0	0.143	0.097	0.014	0.114	0.006	0.013	
6/27/2019 14:37			0	0.143	0.099	0.014	0.12	0.006	0.014	
6/27/2019 14:38			0	0.143	0.101	0.014	0.11	0.006	0.013	
6/27/2019 14:39			0	0.143	0.103	0.014	0.106	0.006	0.013	
6/27/2019 14:40	12.5	105.3	0	0.143	0.106	0.015	0.124	0.006	0.013	
6/27/2019 14:40										42.43324;-76.49763
6/27/2019 14:41			0	0.143	0.108	0.015	0.126	0.006	0.012	
6/27/2019 14:42			0	0.143	0.109	0.015	0.112	0.006	0.013	
6/27/2019 14:43			0	0.145	0.11	0.015	0.123	0.006	0.012	
6/27/2019 14:44			0	0.145	0.111	0.016	0.123	0.006	0.012	
6/27/2019 14:45	12.5	103.2	0	0.145	0.112	0.016	0.121	0.006	0.013	
6/27/2019 14:45										42.43321;-76.4977
6/27/2019 14:46			0	0.145	0.113	0.016	0.13	0.006	0.013	
6/27/2019 14:47			0	0.145	0.114	0.016	0.127	0.006	0.013	
6/27/2019 14:48			0	0.145	0.115	0.017	0.119	0.007	0.012	
6/27/2019 14:49			0	0.145	0.115	0.017	0.115	0.007	0.013	
6/27/2019 14:50	12.5	103.2	0	0.145	0.116	0.017	0.118	0.007	0.013	
6/27/2019 14:50										42.43327;-76.49774
6/27/2019 14:51			0	0.145	0.116	0.017	0.115	0.007	0.013	
6/27/2019 14:52			0	0.152	0.117	0.018	0.119	0.007	0.013	
6/27/2019 14:53			0	0.152	0.118	0.018	0.11	0.007	0.012	
6/27/2019 14:54			0	0.152	0.119	0.018	0.126	0.007	0.013	
6/27/2019 14:55	12.5	106.3	0	0.206	0.121	0.018	0.152	0.007	0.021	
6/27/2019 14:55										42.43327;-76.49778
6/27/2019 14:56			0	0.206	0.124	0.019	0.144	0.007	0.018	
6/27/2019 14:57			0	0.206	0.125	0.019	0.126	0.007	0.013	
6/27/2019 14:58			0	0.206	0.126	0.019	0.137	0.007	0.012	
6/27/2019 14:59			0	0.206	0.127	0.02	0.142	0.007	0.013	
6/27/2019 15:00	12.5	100.2	0	0.206	0.128	0.02	0.17	0.007	0.011	
6/27/2019 15:00										42.43323;-76.49776
6/27/2019 15:01			0	0.206	0.13	0.02	0.155	0.007	0.011	
6/27/2019 15:02			0	0.206	0.132	0.021	0.152	0.007	0.011	
6/27/2019 15:03			0	0.206	0.134	0.021	0.164	0.007	0.01	
6/27/2019 15:04			0	0.206	0.136	0.021	0.153	0.007	0.01	
6/27/2019 15:05	12.5	106.3	0	0.206	0.139	0.022	0.149	0.007	0.01	
6/27/2019 15:05										42.43329;-76.49778
6/27/2019 15:06			0	0.206	0.141	0.022	0.15	0.007	0.01	
6/27/2019 15:07			0	0.206	0.144	0.022	0.156	0.007	0.01	
6/27/2019 15:08			0	0.206	0.146	0.022	0.16	0.007	0.013	
6/27/2019 15:09			0	0.206	0.149	0.023	0.153	0.007	0.011	
6/27/2019 15:10	12.5	108.3	0	0.206	0.149	0.023	0.16	0.007	0.011	
6/27/2019 15:10										42.43326;-76.49775
6/27/2019 15:11			0	0.206	0.15	0.023	0.164	0.007	0.011	
6/27/2019 15:12			0	0.206	0.152	0.024	0.16	0.007	0.011	
6/27/2019 15:13			0	0.206	0.154	0.024	0.169	0.007	0.011	
6/27/2019 15:14			0	0.206	0.156	0.024	0.165	0.007	0.011	
6/27/2019 15:15	12.5	110.3	0	0.206	0.157	0.025	0.157	0.007	0.011	
6/27/2019 15:15										42.43323;-76.49776
6/27/2019 15:16			0	0.206	0.157	0.025	0.143	0.007	0.011	
6/27/2019 15:17			0	0.206	0.157	0.025	0.152	0.007	0.011	
6/27/2019 15:18			0	0.206	0.156	0.026	0.15	0.007	0.01	
6/27/2019 15:19			0	0.206	0.156	0.026	0.164	0.007	0.011	
6/27/2019 15:20	12.5	104.3	0	0.206	0.157	0.026	0.152	0.007	0.011	
6/27/2019 15:20										42.43323;-76.49771
6/27/2019 15:21			0	0.206	0.158	0.027	0.16	0.007	0.012	
6/27/2019 15:22			0	0.206	0.158	0.027	0.141	0.007	0.012	
6/27/2019 15:23			0	0.206	0.157	0.027	0.179	0.007	0.011	
6/27/2019 15:24			0	0.206	0.157	0.028	0.159	0.007	0.011	
6/27/2019 15:25	12.5	100.2	0	0.206	0.157	0.028	0.153	0.007	0.011	42.43324;-76.4977
6/27/2019 15:26			0	0.206	0.157	0.028	0.156	0.007	0.011	
6/27/2019 15:27			0	0.206	0.157	0.029	0.166	0.007	0.012	
6/27/2019 15:28			0	0.206	0.157	0.029	0.154	0.007	0.013	
6/27/2019 15:29			0	0.206	0.157	0.029	0.156	0.008	0.015	
6/27/2019 15:30	12.5	98.2	0	0.206	0.156	0.03	0.148	0.008	0.013	
6/27/2019 15:30										42.43327;-76.4977
6/27/2019 15:31			0	0.206	0.155	0.03	0.146	0.008	0.012	
6/27/2019 15:32			0	0.206	0.156	0.03	0.16	0.008	0.013	
6/27/2019 15:33			0	0.206	0.156	0.031	0.169	0.008	0.013	
6/27/2019 15:34			0	0.206	0.156	0.031	0.163	0.008	0.013	
6/27/2019 15:35	12.5	99.2	0	0.206	0.156	0.031	0.147	0.008	0.013	
6/27/2019 15:35										42.43333;-76.49776
6/27/2019 15:36			0	0.206	0.155	0.032	0.165	0.008	0.013	
6/27/2019 15:37			0	0.206	0.155	0.032	0.157	0.008	0.013	
6/27/2019 15:38			0	0.206	0.155	0.032	0.159	0.008	0.013	
6/27/2019 15:39			0	0.206	0.155	0.033	0.159	0.008	0.013	
6/27/2019 15:40	12.5	114.4	0	0.206	0.155	0.033	0.168	0.008	0.013	
6/27/2019 15:40										42.43328;-76.49777
6/27/2019 15:41			0	0.206	0.156	0.033	0.16	0.008	0.013	
6/27/2019 15:42			0	0.206	0.155	0.034	0.159	0.008	0.013	
6/27/2019 15:43			0	0.206	0.155	0.034	0.153	0.008	0.013	
6/27/2019 15:44			0	0.206	0.154	0.034	0.148	0.008	0.013	
6/27/2019 15:45	12.5	102.2	0	0.206	0.154	0.035	0.15	0.008	0.013	
6/27/2019 15:45										42.43329;-76.49777
6/27/2019 15:46			0	0.206	0.154	0.035	0.156	0.008	0.013	
6/27/2019 15:47			0	0.206	0.154	0.035	0.151	0.008	0.013	
6/27/2019 15:48			0	0.206	0.154	0.035	0.154	0.008	0.013	
6/27/2019 15:49			0	0.206	0.154	0.036	0.162	0.008	0.013	
6/27/2019 15:50	12.5	100.2	0	0.206	0.154	0.036	0.155	0.008	0.013	
6/27/2019 15:50										42.4333;-76.49777
6/27/2019 15:51			0	0.206	0.154	0.036	0.156	0.008	0.013	
6/27/2019 15:52			0	0.206	0.155	0.037	0.162	0.008	0.012	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
6/27/2019 15:53			0	0.206	0.155	0.037	0.147	0.008	0.012	
6/27/2019 15:54			0	0.206	0.155	0.037	0.151	0.008	0.013	
6/27/2019 15:55	12.5	109.3	0	0.206	0.154	0.038	0.152	0.008	0.013	
6/27/2019 15:55										42.43334;-76.49782
6/27/2019 15:56			0	0.206	0.154	0.038	0.169	0.008	0.013	
6/27/2019 15:57			0	0.206	0.154	0.038	0.157	0.008	0.013	
6/27/2019 15:58			0	0.206	0.155	0.039	0.166	0.008	0.012	
6/27/2019 15:59			0	0.206	0.156	0.039	0.163	0.008	0.012	
6/27/2019 16:00	12.4	104.3	0	0.206	0.157	0.039	0.16	0.008	0.013	
6/27/2019 16:00										42.43331;-76.49779
6/27/2019 16:01			0	0.206	0.157	0.04	0.163	0.008	0.013	
6/27/2019 16:02			0	0.206	0.158	0.04	0.158	0.008	0.013	
6/27/2019 16:03			0	0.206	0.158	0.04	0.158	0.008	0.012	
6/27/2019 16:04			0	0.206	0.158	0.041	0.159	0.008	0.012	
6/27/2019 16:05	12.4	100.2	0	0.206	0.158	0.041	0.163	0.008	0.013	
6/27/2019 16:05										42.43329;-76.4978
6/27/2019 16:06			0	0.206	0.158	0.041	0.157	0.009	0.013	
6/27/2019 16:07			0	0.206	0.157	0.042	0.16	0.009	0.012	
6/27/2019 16:08			0	0.206	0.157	0.042	0.155	0.009	0.012	
6/27/2019 16:09			0	0.206	0.157	0.042	0.16	0.009	0.013	
6/27/2019 16:10	12.4	121.5	0	0.206	0.157	0.043	0.156	0.009	0.013	
6/27/2019 16:10										42.43329;-76.49777
6/27/2019 16:11			0	0.206	0.157	0.043	0.158	0.009	0.013	
6/27/2019 16:12			0	0.206	0.157	0.043	0.156	0.009	0.013	
6/27/2019 16:13			0	0.206	0.156	0.044	0.16	0.009	0.013	
6/27/2019 16:14			0	0.206	0.156	0.044	0.15	0.009	0.013	
6/27/2019 16:15	12.4	117.4	0	0.206	0.155	0.044	0.158	0.009	0.013	
6/27/2019 16:15										42.43331;-76.49783
6/27/2019 16:16			0	0.206	0.155	0.045	0.164	0.009	0.013	
6/27/2019 16:17			0	0.206	0.155	0.045	0.153	0.009	0.013	
6/27/2019 16:18			0	0.206	0.155	0.045	0.157	0.009	0.012	
6/27/2019 16:19			0	0.206	0.154	0.046	0.146	0.009	0.012	
6/27/2019 16:20	12.4	116.4	0	0.206	0.154	0.046	0.151	0.009	0.013	
6/27/2019 16:20										42.43327;-76.49777
6/27/2019 16:21			0	0.206	0.154	0.046	0.149	0.009	0.012	
6/27/2019 16:22			0	0.206	0.154	0.047	0.146	0.009	0.012	
6/27/2019 16:23			0	0.206	0.154	0.047	0.159	0.009	0.012	
6/27/2019 16:24			0	0.206	0.154	0.047	0.161	0.009	0.012	
6/27/2019 16:25	12.4	101.2	0	0.206	0.154	0.048	0.155	0.009	0.012	
6/27/2019 16:25										42.43332;-76.4978
6/27/2019 16:26			0	0.206	0.154	0.048	0.158	0.009	0.012	
6/27/2019 16:27			0	0.206	0.154	0.048	0.148	0.009	0.012	
6/27/2019 16:28			0	0.206	0.154	0.048	0.147	0.009	0.013	
6/27/2019 16:29			0	0.206	0.153	0.049	0.162	0.009	0.012	
6/27/2019 16:30	12.4	101.2	0	0.206	0.154	0.049	0.168	0.009	0.012	
6/27/2019 16:30										42.43319;-76.49773
6/27/2019 16:31			0	0.206	0.154	0.049	0.158	0.009	0.012	
6/27/2019 16:32			0	0.206	0.154	0.05	0.147	0.009	0.012	
6/27/2019 16:33			0	0.206	0.153	0.05	0.135	0.009	0.012	
6/27/2019 16:34			0	0.206	0.153	0.05	0.156	0.009	0.012	
6/27/2019 16:35	12.4	99.2	0	0.206	0.153	0.051	0.155	0.009	0.013	
6/27/2019 16:35										42.43322;-76.49776
6/27/2019 16:36			0	0.206	0.153	0.051	0.163	0.009	0.013	
6/27/2019 16:37			0	0.206	0.154	0.051	0.164	0.009	0.012	
6/27/2019 16:38			0	0.206	0.154	0.052	0.164	0.009	0.012	
6/27/2019 16:39			0	0.206	0.154	0.052	0.155	0.009	0.012	
6/27/2019 16:40	12.4	100.2	0	0.206	0.154	0.052	0.158	0.009	0.012	
6/27/2019 16:40										42.43322;-76.49771
6/27/2019 16:41			0	0.206	0.155	0.053	0.164	0.009	0.012	
6/27/2019 16:42			0	0.206	0.155	0.053	0.153	0.009	0.012	
6/27/2019 16:43			0	0.206	0.156	0.053	0.164	0.009	0.012	
6/27/2019 16:44			0	0.206	0.155	0.054	0.147	0.009	0.012	
6/27/2019 16:45	12.4	99.2	0	0.206	0.155	0.054	0.167	0.01	0.013	
6/27/2019 16:45										42.43324;-76.4978
6/27/2019 16:46			0	0.206	0.155	0.054	0.165	0.01	0.013	
6/27/2019 16:47			0	0.206	0.155	0.055	0.167	0.01	0.012	
6/27/2019 16:48			0	0.206	0.156	0.055	0.148	0.01	0.012	
6/27/2019 16:49			0	0.206	0.155	0.055	0.148	0.01	0.012	
6/27/2019 16:50	12.4	104.3	0	0.206	0.155	0.056	0.148	0.01	0.013	
6/27/2019 16:50										42.4332;-76.49774
6/27/2019 16:51			0	0.206	0.155	0.056	0.156	0.01	0.012	
6/27/2019 16:52			0	0.206	0.155	0.056	0.163	0.01	0.013	
6/27/2019 16:53			0	0.206	0.155	0.057	0.158	0.01	0.012	
6/27/2019 16:54			0	0.206	0.155	0.057	0.157	0.01	0.012	
6/27/2019 16:55	12.4	101.2	0	0.206	0.155	0.057	0.157	0.01	0.012	
6/27/2019 16:55										42.43318;-76.49774
6/27/2019 16:56			0	0.206	0.155	0.058	0.17	0.01	0.012	
6/27/2019 16:57			0	0.206	0.155	0.058	0.158	0.01	0.012	
6/27/2019 16:58			0	0.206	0.155	0.058	0.157	0.01	0.013	
6/27/2019 16:59			0	0.206	0.155	0.059	0.163	0.01	0.012	
6/27/2019 17:00	12.4	119.4	0	0.206	0.156	0.059	0.16	0.01	0.013	
6/27/2019 17:00										42.43325;-76.49777
6/27/2019 17:01			0	0.206	0.156	0.059	0.17	0.01	0.013	
6/27/2019 17:02			0	0.206	0.156	0.06	0.146	0.01	0.012	
6/27/2019 17:03			0	0.206	0.155	0.06	0.149	0.01	0.013	
6/27/2019 17:04			0	0.206	0.156	0.06	0.159	0.01	0.012	
6/27/2019 17:05	12.4	100.2	0	0.206	0.156	0.06	0.148	0.01	0.012	
6/27/2019 17:05										42.4332;-76.4977
6/27/2019 17:06			0	0.206	0.156	0.061	0.153	0.01	0.012	
6/27/2019 17:07			0	0.206	0.156	0.061	0.155	0.01	0.012	
6/27/2019 17:08			0	0.206	0.155	0.061	0.147	0.01	0.012	
6/27/2019 17:09			0	0.206	0.154	0.062	0.143	0.01	0.013	
6/27/2019 17:10	12.4	100.2	0	0.206	0.153	0.062	0.145	0.01	0.013	
6/27/2019 17:10										42.43319;-76.49768
6/27/2019 17:11			0	0.206	0.153	0.062	0.155	0.01	0.012	
6/27/2019 17:12			0	0.206	0.152	0.063	0.148	0.01	0.012	
6/27/2019 17:13			0	0.206	0.151	0.063	0.148	0.01	0.014	
6/27/2019 17:14			0	0.206	0.15	0.063	0.143	0.01	0.012	
6/27/2019 17:15	12.4	100.2	0	0.206	0.149	0.064	0.136	0.01	0.012	
6/27/2019 17:15										42.43319;-76.4978
6/27/2019 17:16			0	0.206	0.148	0.064	0.142	0.01	0.013	
6/27/2019 17:17			0	0.206	0.147	0.064	0.146	0.01	0.012	
6/27/2019 17:18			0	0.206	0.146	0.064	0.143	0.01	0.013	
6/27/2019 17:19			0	0.206	0.146	0.065	0.141	0.01	0.013	
6/27/2019 17:20	12.4	103.2	0	0.206	0.145	0.065	0.151	0.01	0.013	
6/27/2019 17:20										42.43323;-76.49776
6/27/2019 17:21			0	0.206	0.144	0.065	0.136	0.01	0.013	
6/27/2019 17:22			0	0.206	0.143	0.066	0.151	0.01	0.012	
6/27/2019 17:23			0	0.206	0.142	0.066	0.127	0.011	0.013	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/27/2019 17:24			0	0.206	0.141	0.066	0.141	0.011	0.013	
6/27/2019 17:25	12.4	107.3	0	0.206	0.141	0.066	0.131	0.011	0.013	
6/27/2019 17:25										42.43323;-76.49783
6/27/2019 17:26			0	0.206	0.14	0.067	0.143	0.011	0.013	
6/27/2019 17:27			0	0.206	0.139	0.067	0.143	0.011	0.013	
6/27/2019 17:28			0	0.206	0.139	0.067	0.153	0.011	0.012	
6/27/2019 17:29			0	0.206	0.14	0.068	0.153	0.011	0.013	
6/27/2019 17:30	12.4	104.3	0	0.206	0.14	0.068	0.151	0.011	0.013	
6/27/2019 17:30										42.43317;-76.49781
6/27/2019 17:31			0	0.206	0.141	0.068	0.131	0.011	0.013	
6/27/2019 17:32			0	0.206	0.141	0.069	0.141	0.011	0.013	
6/27/2019 17:33			0	0.206	0.14	0.069	0.138	0.011	0.012	
6/27/2019 17:34			0	0.206	0.14	0.069	0.139	0.011	0.014	
6/27/2019 17:35	12.3	101.2	0	0.206	0.14	0.069	0.14	0.011	0.013	
6/27/2019 17:35										42.43321;-76.4978
6/27/2019 17:36			0	0.206	0.141	0.07	0.148	0.011	0.013	
6/27/2019 17:37			0	0.206	0.142	0.07	0.148	0.011	0.012	
6/27/2019 17:38			0	0.206	0.142	0.07	0.15	0.011	0.012	
6/27/2019 17:39			0	0.206	0.143	0.071	0.145	0.011	0.013	
6/27/2019 17:40	12.3	100.2	0	0.206	0.143	0.071	0.146	0.011	0.012	
6/27/2019 17:40										42.43326;-76.49777
6/27/2019 17:41			0	0.206	0.144	0.071	0.141	0.011	0.012	
6/27/2019 17:42			0	0.206	0.144	0.072	0.145	0.011	0.012	
6/27/2019 17:43			0	0.206	0.144	0.072	0.139	0.011	0.012	
6/27/2019 17:44			0	0.206	0.144	0.072	0.147	0.011	0.012	
6/27/2019 17:45	12.3	99.2	0	0.206	0.144	0.072	0.149	0.011	0.012	
6/27/2019 17:45										42.43327;-76.49776
6/27/2019 17:46			0	0.206	0.144	0.073	0.175	0.011	0.012	
6/27/2019 17:47			0	0.206	0.144	0.073	0.146	0.011	0.012	
6/27/2019 17:48			0	0.206	0.145	0.073	0.153	0.011	0.012	
6/27/2019 17:49			0	0.206	0.146	0.074	0.152	0.011	0.012	
6/27/2019 17:50	12.3	100.2	0	0.206	0.146	0.074	0.149	0.011	0.012	
6/27/2019 17:50										42.43324;-76.49774
6/27/2019 17:51			0	0.206	0.147	0.074	0.156	0.011	0.013	
6/27/2019 17:52			0	0.206	0.148	0.075	0.151	0.011	0.012	
6/27/2019 17:53			0	0.206	0.148	0.075	0.15	0.011	0.012	
6/27/2019 17:54			0	0.206	0.148	0.075	0.144	0.011	0.012	
6/27/2019 17:55	12.3	102.2	0	0.206	0.149	0.076	0.159	0.011	0.012	
6/27/2019 17:55										42.43324;-76.4977
6/27/2019 17:56			0	0.206	0.149	0.076	0.146	0.011	0.013	
6/27/2019 17:57			0	0.206	0.149	0.076	0.156	0.011	0.012	
6/27/2019 17:58			0	0.206	0.15	0.077	0.153	0.011	0.012	
6/27/2019 17:59			0	0.206	0.15	0.077	0.139	0.011	0.012	
6/27/2019 18:00	12.3	110.3	0	0.206	0.149	0.077	0.153	0.011	0.012	
6/27/2019 18:00										42.43329;-76.49774
6/27/2019 18:01			0	0.206	0.15	0.077	0.154	0.011	0.013	
6/27/2019 18:02			0	0.206	0.15	0.078	0.152	0.012	0.012	
6/27/2019 18:03			0	0.206	0.15	0.078	0.148	0.012	0.012	
6/27/2019 18:04			0	0.206	0.15	0.078	0.155	0.012	0.012	
6/27/2019 18:05	12.3	105.3	0	0.206	0.15	0.079	0.153	0.012	0.012	
6/27/2019 18:05										42.43321;-76.49767
6/27/2019 18:06			0	0.206	0.15	0.079	0.155	0.012	0.012	
6/27/2019 18:07			0	0.206	0.15	0.079	0.143	0.012	0.014	
6/27/2019 18:08			0	0.206	0.15	0.08	0.147	0.012	0.012	
6/27/2019 18:09			0	0.206	0.15	0.08	0.151	0.012	0.012	
6/27/2019 18:10	12.3	101.2	0	0.206	0.15	0.08	0.134	0.012	0.012	
6/27/2019 18:10										42.43325;-76.49771
6/27/2019 18:11			0	0.206	0.149	0.081	0.159	0.012	0.012	
6/27/2019 18:12			0	0.206	0.149	0.081	0.159	0.012	0.012	
6/27/2019 18:13			0	0.206	0.149	0.081	0.146	0.012	0.012	
6/27/2019 18:14			0	0.206	0.149	0.082	0.145	0.012	0.012	
6/27/2019 18:15	12.3	110.3	0	0.206	0.149	0.082	0.154	0.012	0.012	
6/27/2019 18:15										42.43327;-76.49774
6/27/2019 18:16			0	0.206	0.149	0.082	0.151	0.012	0.012	
6/27/2019 18:17			0	0.206	0.148	0.082	0.153	0.012	0.012	
6/27/2019 18:18			0	0.206	0.148	0.083	0.155	0.012	0.012	
6/27/2019 18:19			0	0.206	0.148	0.083	0.149	0.012	0.012	
6/27/2019 18:20	12.3	101.2	0	0.206	0.148	0.083	0.148	0.012	0.012	
6/27/2019 18:20										42.43326;-76.49765
6/27/2019 18:21			0	0.206	0.147	0.084	0.146	0.012	0.012	
6/27/2019 18:22			0	0.206	0.147	0.084	0.144	0.012	0.012	
6/27/2019 18:23			0	0.206	0.147	0.084	0.136	0.012	0.012	
6/27/2019 18:24			0	0.206	0.146	0.085	0.143	0.012	0.012	
6/27/2019 18:25	12.3	99.2	0	0.206	0.146	0.085	0.147	0.012	0.012	
6/27/2019 18:25										42.43325;-76.49762
6/27/2019 18:26			0	0.206	0.146	0.085	0.151	0.012	0.012	
6/27/2019 18:27			0	0.206	0.146	0.085	0.142	0.012	0.012	
6/27/2019 18:28			0	0.206	0.145	0.086	0.142	0.012	0.012	
6/27/2019 18:29			0	0.206	0.145	0.086	0.15	0.012	0.012	
6/27/2019 18:30	12.3	110.3	0	0.206	0.145	0.086	0.154	0.012	0.012	
6/27/2019 18:30										42.43324;-76.49763
6/27/2019 18:31			0	0.206	0.146	0.087	0.152	0.012	0.012	
6/27/2019 18:32			0	0.206	0.146	0.087	0.161	0.012	0.012	
6/27/2019 18:33			0	0.206	0.146	0.087	0.153	0.012	0.012	
6/27/2019 18:34			0	0.206	0.146	0.088	0.154	0.012	0.012	
6/27/2019 18:35	12.3	116.4	0	0.206	0.146	0.088	0.142	0.012	0.012	
6/27/2019 18:35										42.43324;-76.49765
6/27/2019 18:36			0	0.206	0.146	0.088	0.148	0.012	0.012	
6/27/2019 18:37			0	0.206	0.146	0.089	0.145	0.012	0.013	
6/27/2019 18:38			0	0.206	0.146	0.089	0.148	0.012	0.012	
6/27/2019 18:39			0	0.206	0.146	0.089	0.146	0.012	0.012	
6/27/2019 18:40	12.3	104.3	0	0.206	0.146	0.089	0.153	0.012	0.012	
6/27/2019 18:40										42.43334;-76.4977
6/27/2019 18:41			0	0.206	0.145	0.09	0.143	0.013	0.012	
6/27/2019 18:42			0	0.206	0.145	0.09	0.133	0.013	0.012	
6/27/2019 18:43			0	0.206	0.145	0.09	0.149	0.013	0.012	
6/27/2019 18:44			0	0.206	0.145	0.091	0.141	0.013	0.012	
6/27/2019 18:45	12.3	109.3	0	0.206	0.145	0.091	0.138	0.013	0.012	
6/27/2019 18:45										42.43327;-76.49767
6/27/2019 18:46			0	0.206	0.144	0.091	0.144	0.013	0.012	
6/27/2019 18:47			0	0.206	0.144	0.092	0.133	0.013	0.012	
6/27/2019 18:48			0	0.206	0.144	0.092	0.137	0.013	0.012	
6/27/2019 18:49			0	0.206	0.142	0.092	0.138	0.013	0.012	
6/27/2019 18:50	12.3	100.2	0	0.206	0.142	0.092	0.136	0.013	0.012	
6/27/2019 18:50										42.43329;-76.49767
6/27/2019 18:51			0	0.206	0.141	0.093	0.136	0.013	0.012	
6/27/2019 18:52			0	0.206	0.141	0.093	0.135	0.013	0.012	
6/27/2019 18:53			0	0.206	0.141	0.093	0.135	0.013	0.012	
6/27/2019 18:54			0	0.206	0.14	0.094	0.145	0.013	0.012	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/27/2019 18:55	12.2	100.2	0	0.206	0.14	0.094	0.142	0.013	0.012	
6/27/2019 18:55										42.43328;-76.49767
6/27/2019 18:56			0	0.206	0.14	0.094	0.135	0.013	0.012	
6/27/2019 18:57			0	0.206	0.14	0.094	0.146	0.013	0.012	
6/27/2019 18:58			0	0.206	0.14	0.095	0.133	0.013	0.012	
6/27/2019 18:59			0	0.206	0.14	0.095	0.143	0.013	0.012	
6/27/2019 19:00	12.2	110.3	0	0.206	0.139	0.095	0.147	0.013	0.012	
6/27/2019 19:00										42.43328;-76.49774
6/27/2019 19:01			0	0.206	0.14	0.096	0.144	0.013	0.012	
6/27/2019 19:02			0	0.206	0.14	0.096	0.153	0.013	0.012	
6/27/2019 19:03			0	0.206	0.141	0.096	0.155	0.013	0.012	
6/27/2019 19:04			0	0.206	0.142	0.097	0.152	0.013	0.017	
6/27/2019 19:05	12.2	102.2	0	0.206	0.143	0.097	0.132	0.013	0.012	
6/27/2019 19:05										42.43334;-76.49768
6/27/2019 19:06			0	0.206	0.143	0.097	0.146	0.013	0.012	
6/27/2019 19:07			0	0.206	0.143	0.097	0.144	0.013	0.012	
6/27/2019 19:08			0	0.206	0.143	0.098	0.14	0.013	0.012	
6/27/2019 19:09			0	0.206	0.143	0.098	0.143	0.013	0.012	
6/27/2019 19:10	12.2	101.2	0	0.206	0.144	0.098	0.149	0.013	0.012	
6/27/2019 19:10										42.43333;-76.4977
6/27/2019 19:11			0	0.206	0.144	0.099	0.149	0.013	0.013	
6/27/2019 19:12			0	0.206	0.144	0.099	0.146	0.013	0.012	
6/27/2019 19:13			0	0.206	0.145	0.099	0.142	0.013	0.012	
6/27/2019 19:14			0	0.206	0.145	0.1	0.152	0.013	0.012	
6/27/2019 19:15	12.2	103.2	0	0.206	0.146	0.1	0.147	0.013	0.012	
6/27/2019 19:15										42.43327;-76.49776
6/27/2019 19:16			0	0.206	0.145	0.1	0.146	0.013	0.012	
6/27/2019 19:17			0	0.206	0.146	0.1	0.156	0.013	0.012	
6/27/2019 19:18			0	0.206	0.145	0.101	0.14	0.013	0.012	
6/27/2019 19:19			0	0.206	0.145	0.101	0.144	0.013	0.012	
6/27/2019 19:20	12.2	101.2	0	0.206	0.145	0.101	0.15	0.014	0.012	
6/27/2019 19:20										42.43317;-76.49773
6/27/2019 19:21			0	0.206	0.146	0.102	0.148	0.014	0.012	
6/27/2019 19:22			0	0.206	0.146	0.102	0.136	0.014	0.012	
6/27/2019 19:23			0	0.206	0.147	0.102	0.147	0.014	0.012	
6/27/2019 19:24			0	0.206	0.147	0.103	0.144	0.014	0.012	
6/27/2019 19:25	12.2	106.3	0	0.206	0.146	0.103	0.143	0.014	0.012	
6/27/2019 19:25										42.43333;-76.4977
6/27/2019 19:26			0	0.206	0.146	0.103	0.141	0.014	0.012	
6/27/2019 19:27			0	0.206	0.146	0.103	0.144	0.014	0.012	
6/27/2019 19:28			0	0.206	0.145	0.104	0.15	0.014	0.012	
6/27/2019 19:29			0	0.206	0.145	0.104	0.139	0.014	0.011	
6/27/2019 19:30	12.2	100.2	0	0.206	0.145	0.104	0.153	0.014	0.011	
6/27/2019 19:30										42.43336;-76.49768
6/27/2019 19:31			0	0.206	0.145	0.105	0.15	0.014	0.012	
6/27/2019 19:32			0	0.206	0.144	0.105	0.152	0.014	0.012	
6/27/2019 19:33			0	0.206	0.144	0.105	0.144	0.014	0.012	
6/27/2019 19:34			0	0.206	0.144	0.106	0.145	0.014	0.012	
6/27/2019 19:35	12.2	103.2	0	0.206	0.144	0.106	0.15	0.014	0.012	
6/27/2019 19:35										42.43325;-76.49776
6/27/2019 19:36			0	0.206	0.143	0.106	0.147	0.014	0.012	
6/27/2019 19:37			0	0.206	0.143	0.106	0.143	0.014	0.012	
6/27/2019 19:38			0	0.206	0.143	0.107	0.148	0.014	0.012	
6/27/2019 19:39			0	0.206	0.143	0.107	0.141	0.014	0.012	
6/27/2019 19:40	12.2	101.2	0	0.206	0.142	0.107	0.139	0.014	0.012	
6/27/2019 19:40										42.43319;-76.49773
6/27/2019 19:41			0	0.206	0.142	0.108	0.148	0.014	0.012	
6/27/2019 19:42			0	0.206	0.142	0.108	0.136	0.014	0.012	
6/27/2019 19:43			0	0.206	0.142	0.108	0.138	0.014	0.012	
6/27/2019 19:44			0	0.206	0.142	0.109	0.145	0.014	0.012	
6/27/2019 19:45	12.2	101.2	0	0.206	0.141	0.109	0.139	0.014	0.012	
6/27/2019 19:45										42.43322;-76.4978
6/27/2019 19:46			0	0.206	0.14	0.109	0.147	0.014	0.012	
6/27/2019 19:47			0	0.206	0.14	0.109	0.131	0.014	0.013	
6/27/2019 19:48			0	0.206	0.139	0.11	0.135	0.014	0.013	
6/27/2019 19:49			0	0.206	0.139	0.11	0.136	0.014	0.013	
6/27/2019 19:50	12.2	112.4	0	0.206	0.138	0.11	0.127	0.014	0.012	
6/27/2019 19:50										42.43324;-76.49776
6/27/2019 19:51			0	0.206	0.137	0.111	0.132	0.014	0.012	
6/27/2019 19:52			0	0.206	0.137	0.111	0.132	0.014	0.012	
6/27/2019 19:53			0	0.206	0.136	0.111	0.137	0.014	0.012	
6/27/2019 19:54			0	0.206	0.136	0.111	0.134	0.014	0.012	
6/27/2019 19:55	12.2	101.2	0	0.206	0.136	0.112	0.143	0.014	0.012	
6/27/2019 19:55										42.43322;-76.49779
6/27/2019 19:56			0	0.206	0.136	0.112	0.142	0.014	0.012	
6/27/2019 19:57			0	0.206	0.136	0.112	0.131	0.014	0.012	
6/27/2019 19:58			0	0.206	0.135	0.112	0.126	0.014	0.012	
6/27/2019 19:59			0	0.206	0.135	0.113	0.133	0.014	0.013	
6/27/2019 20:00	12.2	102.2	0	0.206	0.134	0.113	0.136	0.014	0.012	
6/27/2019 20:00										42.43322;-76.49769
6/27/2019 20:01			0	0.206	0.134	0.113	0.135	0.014	0.013	
6/27/2019 20:02			0	0.206	0.133	0.114	0.134	0.014	0.013	
6/27/2019 20:03			0	0.206	0.133	0.114	0.145	0.014	0.012	
6/27/2019 20:04			0	0.206	0.133	0.114	0.142	0.014	0.012	
6/27/2019 20:05	12.2	105.3	0	0.206	0.133	0.114	0.137	0.014	0.012	42.43315;-76.49771
6/27/2019 20:06			0	0.206	0.133	0.115	0.131	0.014	0.012	
6/27/2019 20:07			0	0.206	0.133	0.115	0.136	0.014	0.012	
6/27/2019 20:08			0	0.206	0.133	0.115	0.138	0.014	0.012	
6/27/2019 20:09			0	0.206	0.133	0.116	0.142	0.014	0.012	
6/27/2019 20:10	12.2	100.2	0	0.206	0.134	0.116	0.147	0.014	0.012	
6/27/2019 20:10										42.43325;-76.4978
6/27/2019 20:11			0	0.206	0.133	0.116	0.133	0.014	0.012	
6/27/2019 20:12			0	0.206	0.133	0.116	0.128	0.014	0.012	
6/27/2019 20:13			0	0.206	0.133	0.117	0.129	0.014	0.012	
6/27/2019 20:14			0	0.206	0.133	0.117	0.138	0.014	0.013	
6/27/2019 20:15	12.2	99.2	0	0.206	0.133	0.117	0.134	0.014	0.013	
6/27/2019 20:15										42.43316;-76.49777
6/27/2019 20:16			0	0.206	0.133	0.117	0.133	0.014	0.013	
6/27/2019 20:17			0	0.206	0.133	0.118	0.132	0.014	0.013	
6/27/2019 20:18			0	0.206	0.133	0.118	0.133	0.014	0.013	
6/27/2019 20:19			0	0.206	0.133	0.118	0.133	0.014	0.013	
6/27/2019 20:20	12.2	107.3	0	0.206	0.133	0.119	0.136	0.014	0.013	
6/27/2019 20:20										42.43317;-76.49781
6/27/2019 20:21			0	0.206	0.134	0.119	0.141	0.014	0.013	
6/27/2019 20:22			0	0.206	0.134	0.119	0.125	0.014	0.012	
6/27/2019 20:23			0	0.206	0.133	0.119	0.131	0.014	0.012	
6/27/2019 20:24			0	0.206	0.133	0.12	0.129	0.014	0.012	
6/27/2019 20:25	12.2	116.4	0	0.206	0.133	0.12	0.137	0.014	0.012	
6/27/2019 20:25										42.43319;-76.49781

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
6/27/2019 20:26			0	0.206	0.133	0.12	0.126	0.014	0.012	
6/27/2019 20:27			0	0.206	0.133	0.121	0.139	0.014	0.012	
6/27/2019 20:28			0	0.206	0.133	0.121	0.144	0.014	0.012	
6/27/2019 20:29			0	0.206	0.133	0.121	0.13	0.014	0.012	
6/27/2019 20:30	12.2	102.2	0	0.206	0.133	0.121	0.125	0.014	0.012	
6/27/2019 20:30										42.43314;-76.4978
6/27/2019 20:31			0	0.206	0.133	0.122	0.13	0.014	0.012	
6/27/2019 20:32			0	0.206	0.132	0.122	0.125	0.014	0.012	
6/27/2019 20:33			0	0.206	0.132	0.122	0.125	0.014	0.012	
6/27/2019 20:34			0	0.206	0.131	0.122	0.128	0.014	0.012	
6/27/2019 20:35	12.2	111.3	0	0.206	0.13	0.123	0.122	0.014	0.012	
6/27/2019 20:35										42.4332;-76.49776
6/27/2019 20:36			0	0.206	0.129	0.123	0.13	0.014	0.012	
6/27/2019 20:37			0	0.206	0.129	0.123	0.128	0.014	0.012	
6/27/2019 20:38			0	0.206	0.128	0.123	0.127	0.014	0.012	
6/27/2019 20:39			0	0.206	0.127	0.124	0.113	0.014	0.012	
6/27/2019 20:40	12.2	100.2	0	0.206	0.126	0.124	0.108	0.014	0.012	
6/27/2019 20:40										42.43318;-76.4978
6/27/2019 20:41			0	0.206	0.125	0.124	0.123	0.014	0.014	
6/27/2019 20:42			0	0.206	0.124	0.124	0.122	0.014	0.013	
6/27/2019 20:43			0	0.206	0.124	0.125	0.137	0.014	0.012	
6/27/2019 20:44			0	0.206	0.123	0.125	0.12	0.014	0.013	
6/27/2019 20:45	12.1	111.3	0	0.206	0.123	0.125	0.117	0.014	0.013	
6/27/2019 20:45										42.43314;-76.49782
6/27/2019 20:46			0	0.206	0.123	0.125	0.126	0.014	0.013	
6/27/2019 20:47			0	0.206	0.123	0.126	0.141	0.014	0.013	
6/27/2019 20:48			0	0.206	0.123	0.126	0.125	0.014	0.013	
6/27/2019 20:49			0	0.206	0.123	0.126	0.127	0.014	0.013	
6/27/2019 20:50	12.1	111.3	0	0.206	0.123	0.127	0.129	0.014	0.012	
6/27/2019 20:50										42.43311;-76.49782
6/27/2019 20:51			0	0.206	0.123	0.127	0.127	0.014	0.013	
6/27/2019 20:52			0	0.206	0.123	0.127	0.117	0.014	0.013	
6/27/2019 20:53			0	0.206	0.123	0.127	0.128	0.014	0.013	
6/27/2019 20:54			0	0.206	0.123	0.128	0.13	0.014	0.012	
6/27/2019 20:55	12.1	115.4	0	0.206	0.124	0.128	0.13	0.014	0.012	
6/27/2019 20:55										42.43323;-76.49776
6/27/2019 20:56			0	0.206	0.125	0.128	0.126	0.014	0.012	
6/27/2019 20:57			0	0.206	0.126	0.128	0.13	0.014	0.012	
6/27/2019 20:58			0	0.206	0.126	0.129	0.127	0.014	0.012	
6/27/2019 20:59			0	0.206	0.126	0.129	0.135	0.014	0.013	
6/27/2019 21:00	12.1	101.2	0	0.206	0.126	0.129	0.125	0.014	0.012	
6/27/2019 21:00										42.43321;-76.4978
6/27/2019 21:01			0	0.206	0.126	0.129	0.115	0.014	0.012	
6/27/2019 21:02			0	0.206	0.126	0.13	0.127	0.014	0.012	
6/27/2019 21:03			0	0.206	0.125	0.13	0.13	0.014	0.013	
6/27/2019 21:04			0	0.206	0.126	0.13	0.125	0.014	0.013	
6/27/2019 21:05	12.1	116.4	0	0.206	0.126	0.13	0.116	0.014	0.016	
6/27/2019 21:05										42.43324;-76.49779
6/27/2019 21:06			0	0.206	0.126	0.131	0.122	0.014	0.012	
6/27/2019 21:07			0	0.206	0.126	0.131	0.134	0.014	0.013	
6/27/2019 21:08			0	0.206	0.126	0.131	0.128	0.014	0.013	
6/27/2019 21:09			0	0.206	0.126	0.132	0.131	0.014	0.012	
6/27/2019 21:10	12.1	111.3	0	0.206	0.126	0.132	0.131	0.014	0.012	
6/27/2019 21:10										42.43319;-76.49772
6/27/2019 21:11			0	0.206	0.126	0.132	0.124	0.014	0.013	
6/27/2019 21:12			0	0.206	0.126	0.132	0.135	0.014	0.012	
6/27/2019 21:13			0	0.206	0.126	0.133	0.117	0.014	0.013	
6/27/2019 21:14			0	0.206	0.125	0.133	0.127	0.014	0.013	
6/27/2019 21:15	12.1	101.2	0	0.206	0.125	0.133	0.133	0.014	0.013	
6/27/2019 21:15										42.43324;-76.49776
6/27/2019 21:16			0	0.206	0.126	0.133	0.128	0.014	0.013	
6/27/2019 21:17			0	0.206	0.126	0.134	0.124	0.014	0.013	
6/27/2019 21:18			0	0.206	0.126	0.134	0.117	0.014	0.013	
6/27/2019 21:19			0	0.206	0.126	0.134	0.12	0.014	0.013	
6/27/2019 21:20	12.1	123.5	0	0.206	0.125	0.134	0.114	0.014	0.013	
6/27/2019 21:20										42.43329;-76.49783
6/27/2019 21:21			0	0.206	0.125	0.135	0.116	0.014	0.013	
6/27/2019 21:22			0	0.206	0.124	0.135	0.115	0.014	0.013	
6/27/2019 21:23			0	0.206	0.123	0.135	0.116	0.014	0.013	
6/27/2019 21:24			0	0.206	0.123	0.135	0.126	0.014	0.013	
6/27/2019 21:25	12.1	102.2	0	0.206	0.123	0.136	0.125	0.014	0.013	
6/27/2019 21:25										42.43323;-76.49773
6/27/2019 21:26			0	0.206	0.122	0.136	0.118	0.014	0.013	
6/27/2019 21:27			0	0.206	0.122	0.136	0.119	0.014	0.012	
6/27/2019 21:28			0	0.206	0.121	0.136	0.115	0.014	0.013	
6/27/2019 21:29			0	0.206	0.12	0.137	0.106	0.014	0.013	
6/27/2019 21:30	12.1	105.3	0	0.206	0.119	0.137	0.125	0.014	0.013	
6/27/2019 21:30										42.43325;-76.49775
6/27/2019 21:31			0	0.206	0.119	0.137	0.114	0.014	0.012	
6/27/2019 21:32			0	0.206	0.118	0.137	0.111	0.014	0.013	
7/10/2019 11:35	12.6	117.4								
7/10/2019 11:35										42.4335179;-76.49847179999999
7/10/2019 11:36			0	0.041	0	0	0			
7/10/2019 11:37			0	0.041	0	0	0			
7/10/2019 11:38			0	0.041	0	0	0			
7/10/2019 11:39			0	0.041	0	0	0			
7/10/2019 11:40	12.5	98.2	0	0.041	0	0	0			42.43259;-76.49827
7/10/2019 11:41			0	0.041	0	0	0			
7/10/2019 11:42			0	0.041	0	0	0			
7/10/2019 11:43			0	0.041	0	0	0			
7/10/2019 11:44			0	0.041	0	0	0			
7/10/2019 11:45	12.5	98.2	0	0.041	0	0	0			
7/10/2019 11:45										42.43262;-76.49831
7/10/2019 11:46			0	0.041	0	0	0			
7/10/2019 11:47			0	0.041	0	0	0			
7/10/2019 11:48			0	0.041	0	0	0			
7/10/2019 11:49			0	0.041	0	0	0			
7/10/2019 11:50	12.5	97.2	0	0.041	0	0	0			
7/10/2019 11:50										42.43263;-76.49837
7/10/2019 11:51			0	0.041	0	0	0			
7/10/2019 11:52			0	0.041	0	0	0			
7/10/2019 11:53			0	0.041	0	0	0			
7/10/2019 11:54			0	0.041	0	0	0			
7/10/2019 11:55	12.5	98.2	0	0.041	0	0	0			
7/10/2019 11:55										42.43273;-76.49837
7/10/2019 11:56			0	0.041	0	0	0			
7/10/2019 11:57			0	0.041	0	0	0			
7/10/2019 11:58			0	0.041	0	0	0			
7/10/2019 11:59			0	0.041	0	0	0			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/10/2019 12:00	12.5	110.3	0	0.041	0	0	0			
7/10/2019 12:00										42.43261;-76.49837
7/10/2019 12:01			0	0.041	0	0	0			
7/10/2019 12:02			0	0.041	0	0	0			
7/10/2019 12:03			0	0.041	0	0	0			
7/10/2019 12:04			0	0.041	0	0	0			
7/10/2019 12:05	12.5	101.2	0	0.041	0	0	0			
7/10/2019 12:05										42.43262;-76.49837
7/10/2019 12:06			0	0.041	0	0	0			
7/10/2019 12:07			0	0.041	0	0	0			
7/10/2019 12:08			0	0.041	0	0	0			
7/10/2019 12:09			0	0.041	0	0	0			
7/10/2019 12:10	12.5	102.2	0	0.041	0	0	0			
7/10/2019 12:10										42.43264;-76.49837
7/10/2019 12:11			0	0.041	0	0	0			
7/10/2019 12:12			0	0.041	0	0	0			
7/10/2019 12:13			0	0.041	0	0	0			
7/10/2019 12:14			0	0.041	0	0	0			
7/10/2019 12:15	12.5	97.2	0	0.041	0	0	0			
7/10/2019 12:15										42.43266;-76.49838
7/10/2019 12:16			0	0.041	0	0	0			
7/10/2019 12:17			0	0.041	0	0	0			
7/10/2019 12:18			0	0.041	0	0	0			
7/10/2019 12:19			0	0.041	0	0	0			
7/10/2019 12:20	12.5	99.2	0	0.041	0	0	0			42.43264;-76.49837
7/10/2019 12:21			0	0.041	0	0	0			
7/10/2019 12:22			0	0.041	0	0	0			
7/10/2019 12:23			0	0.041	0	0	0			
7/10/2019 12:24			0	0.041	0	0	0			
7/10/2019 12:25	12.5	98.2	0	0.041	0	0	0			42.43267;-76.49841
7/10/2019 12:26			0	0.041	0	0	0			
7/10/2019 12:27			0	0.041	0	0	0			
7/10/2019 12:28			0	0.041	0	0	0			
7/10/2019 12:29			0	0.041	0	0	0			
7/10/2019 12:30	12.5	98.2	0	0.041	0	0	0			42.43272;-76.49845
7/10/2019 12:31			0	0.041	0	0	0			
7/10/2019 12:32			0	0.041	0	0	0			
7/10/2019 12:33			0	0.041	0	0	0			
7/10/2019 12:34			0	0.041	0	0	0			
7/10/2019 12:35	12.5	104.3	0	0.041	0	0	0			42.43247;-76.49844
7/10/2019 12:36			0	0.041	0	0	0			
7/10/2019 12:37			0	0.041	0	0	0			
7/10/2019 12:38			0	0.041	0	0	0			
7/10/2019 12:39			0	0.041	0	0	0			
7/10/2019 12:40	12.5	112.4	0	0.041	0	0	0			
7/10/2019 12:40										42.4326;-76.4983
7/10/2019 12:41			0	0.041	0	0	0			
7/10/2019 12:42			0	0.041	0	0	0			
7/10/2019 12:43			0	0.041	0	0	0			
7/10/2019 12:44			0	0.041	0	0	0			
7/10/2019 12:45	12.5	104.3	0	0.041	0	0	0			
7/10/2019 12:45										42.43273;-76.49841
7/10/2019 12:46			0	0.041	0	0	0			
7/10/2019 12:47			0	0.041	0	0	0			
7/10/2019 12:48			0	0.041	0	0	0			
7/10/2019 12:49			0	0.041	0	0	0			
7/10/2019 12:50	12.5	96.2	0	0.041	0	0	0			
7/10/2019 12:50										42.4326;-76.49844
7/10/2019 12:51			0	0.041	0	0	0			
7/10/2019 12:52			0	0.041	0	0	0			
7/10/2019 12:53			0	0.041	0	0	0			
7/10/2019 12:54			0	0.041	0	0	0			
7/10/2019 12:55	12.5	97.2	0	0.041	0	0	0			
7/10/2019 12:55										42.43225;-76.49819
7/10/2019 12:56			0	0.041	0	0	0			
7/10/2019 12:57			0	0.041	0	0	0			
7/10/2019 12:58			0	0.041	0	0	0			
7/10/2019 12:59			0	0.041	0	0	0			
7/10/2019 13:00	12.5	105.3	0	0.041	0	0	0			42.43248;-76.49836
7/10/2019 13:01			0	0.041	0	0	0			
7/10/2019 13:02			0	0.041	0	0	0			
7/10/2019 13:03			0	0.041	0	0	0			
7/10/2019 13:04			0	0.041	0	0	0			
7/10/2019 13:05	12.5	98.2	0	0.041	0	0	0			42.43253;-76.49834
7/10/2019 13:06			0	0.041	0	0	0			
7/10/2019 13:07			0	0.041	0	0	0			
7/10/2019 13:08			0	0.041	0	0	0			
7/10/2019 13:09			0	0.041	0	0	0			
7/10/2019 13:10	12.5	98.2	0	0.041	0	0	0			42.43249;-76.49833
7/10/2019 13:11			0	0.041	0	0	0			
7/10/2019 13:12			0	0.041	0	0	0			
7/10/2019 13:13			0	0.041	0	0	0			
7/10/2019 13:14			0	0.041	0	0	0			
7/10/2019 13:15	12.5	97.2	0	0.041	0	0	0			42.43246;-76.49828
7/10/2019 13:16			0	0.041	0	0	0			
7/10/2019 13:17			0	0.041	0	0	0			
7/10/2019 13:18			0	0.041	0	0	0			
7/10/2019 13:19			0	0.041	0	0	0			
7/10/2019 13:20	12.5	97.2	0	0.041	0	0	0			
7/10/2019 13:20										42.43247;-76.49823
7/10/2019 13:21			0	0.041	0	0	0			
7/10/2019 13:22			0	0.041	0	0	0			
7/10/2019 13:23			0	0.041	0	0	0			
7/10/2019 13:24			0	0.041	0	0	0			
7/10/2019 13:25	12.5	99.2	0	0.041	0	0	0			
7/10/2019 13:25										42.43247;-76.49824
7/10/2019 13:26			0	0.041	0	0	0			
7/10/2019 13:27			0	0.041	0	0	0			
7/10/2019 13:28			0	0.041	0	0	0			
7/10/2019 13:29			0	0.041	0	0	0			
7/10/2019 13:30	12.5	95.1	0	0.041	0	0	0			
7/10/2019 13:30										42.43247;-76.49824
7/10/2019 13:31			0	0.041	0	0	0			
7/10/2019 13:32			0	0.041	0	0	0			
7/10/2019 13:33			0	0.041	0	0	0			
7/10/2019 13:34			0	0.041	0	0	0			
7/10/2019 13:35	12.5	97.2	0	0.041	0	0	0			
7/10/2019 13:35										42.43246;-76.49823
7/10/2019 13:36			0	0.041	0	0	0			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/10/2019 13:37			0	0.041	0	0	0			
7/10/2019 13:38			0	0.041	0	0	0			
7/10/2019 13:39			0	0.041	0	0	0			
7/10/2019 13:40	12.5	111.3	0	0.041	0	0	0			42.43248;-76.49826
7/10/2019 13:41			0	0.041	0	0	0			
7/10/2019 13:42			0	0.041	0	0	0			
7/10/2019 13:43			0	0.041	0	0	0			
7/10/2019 13:44			0	0.041	0	0	0			
7/10/2019 13:45	12.5	101.2	0	0.041	0	0	0			42.43246;-76.49827
7/10/2019 13:46			0	0.041	0	0	0			
7/10/2019 13:47			0	0.041	0	0	0			
7/10/2019 13:48			0	0.041	0	0	0			
7/10/2019 13:49			0	0.041	0	0	0			
7/10/2019 13:50	12.5	103.2	0	0.041	0	0	0			42.43246;-76.49828
7/10/2019 13:51			0	0.041	0	0	0			
7/10/2019 13:52			0	0.041	0	0	0			
7/10/2019 13:53			0	0.041	0	0	0			
7/10/2019 13:54			0	0.041	0	0	0			
7/10/2019 13:55	12.5	96.2	0	0.041	0	0	0			42.43249;-76.49828
7/10/2019 13:56			0	0.041	0	0	0			
7/10/2019 13:57			0	0.041	0	0	0			
7/10/2019 13:58			0	0.041	0	0	0			
7/10/2019 13:59			0	0.041	0	0	0			
7/10/2019 14:00	12.5	99.2	0	0.041	0	0	0			
7/10/2019 14:00										42.43254;-76.49833
7/10/2019 14:01			0	0.041	0	0	0			
7/10/2019 14:02			0	0.041	0	0	0			
7/10/2019 14:03			0	0.041	0	0	0			
7/10/2019 14:04			0	0.041	0	0	0			
7/10/2019 14:05	12.5	98.2	0	0.041	0	0	0			
7/10/2019 14:05										42.43258;-76.49834
7/10/2019 14:06			0	0.041	0	0	0			
7/10/2019 14:07			0	0.041	0	0	0			
7/10/2019 14:08			0	0.041	0	0	0			
7/10/2019 14:09			0	0.041	0	0	0			
7/10/2019 14:10	12.5	117.4	0	0.041	0	0	0			
7/10/2019 14:10										42.43261;-76.49833
7/10/2019 14:11			0	0.041	0	0	0			
7/10/2019 14:12			0	0.041	0	0	0			
7/10/2019 14:13			0	0.041	0	0	0			
7/10/2019 14:14			0	0.041	0	0	0			
7/10/2019 14:15	12.5	106.3	0	0.041	0	0	0			42.43258;-76.49832
7/10/2019 14:16			0	0.041	0	0	0			
7/10/2019 14:17			0	0.041	0	0	0			
7/10/2019 14:18			0	0.097	0	0	0			
7/10/2019 14:19			0	0.097	0	0	0.076			
7/10/2019 14:20	12.5	98.2	0	0.15	0.003	0	0.004			42.4326;-76.49831
7/10/2019 14:21			0	0.15	0.003	0	0			
7/10/2019 14:22			0	0.15	0.003	0	0			
7/10/2019 14:23			0	0.15	0.003	0	0			
7/10/2019 14:24			0	0.15	0.003	0	0			
7/10/2019 14:25	12.5	97.2	0	0.15	0.003	0	0			42.43257;-76.49831
7/10/2019 14:26			0	0.15	0.003	0	0			
7/10/2019 14:27			0	0.15	0.003	0	0			
7/10/2019 14:28			0	0.15	0.003	0	0.001			
7/10/2019 14:29			0	0.15	0.003	0	0			
7/10/2019 14:30	12.5	103.2	0	0.15	0.003	0	0			42.43257;-76.49832
7/10/2019 14:31			0	0.15	0.003	0	0			
7/10/2019 14:32			0	0.15	0.003	0	0.002			
7/10/2019 14:33			0	0.213	0.003	0	0			
7/10/2019 14:34			0	0.213	0.004	0	0			
7/10/2019 14:35	12.4	111.3	0	0.213	0.001	0	0			
7/10/2019 14:35										42.43262;-76.49834
7/10/2019 14:36			0	0.213	0.001	0	0.001			
7/10/2019 14:37			0	0.213	0.001	0	0			
7/10/2019 14:38			0	0.213	0.001	0	0			
7/10/2019 14:39			0	0.213	0.001	0	0			
7/10/2019 14:40	12.4	113.4	0	0.213	0.001	0	0.006			
7/10/2019 14:40										42.43263;-76.49831
7/10/2019 14:41			0	0.213	0.001	0	0.003			
7/10/2019 14:42			0	0.213	0.001	0	0.002			
7/10/2019 14:43			0	0.213	0.002	0	0.032			
7/10/2019 14:44			0	0.213	0.003	0	0.073			
7/10/2019 14:45	12.4	98.2	0	0.213	0.006	0	0.033			
7/10/2019 14:45										42.43261;-76.49832
7/10/2019 14:46			0	0.213	0.008	0	0.044			
7/10/2019 14:47			0	0.213	0.008	0	0.029			
7/10/2019 14:48			0	0.213	0.01	0	0.039			
7/10/2019 14:49			0	0.213	0.012	0	0.002			
7/10/2019 14:50	12.5	98.2	0	0.213	0.012	0	0.001			
7/10/2019 14:50										42.43264;-76.49832
7/10/2019 14:51			0	0.213	0.014	0	0.032			
7/10/2019 14:52			0	0.213	0.016	0	0.017			
7/10/2019 14:53			0	0.213	0.018	0	0.01			
7/10/2019 14:54			0	0.213	0.019	0	0.061			
7/10/2019 14:55	12.5	108.3	0	0.213	0.021	0	0.019			42.43262;-76.49831
7/10/2019 14:56			0	0.213	0.024	0	0.053			
7/10/2019 14:57			0	0.213	0.026	0.001	0.059			
7/10/2019 14:58			0	0.213	0.029	0.001	0.066			
7/10/2019 14:59			0	0.213	0.031	0.001	0.088			
7/10/2019 15:00	12.4	102.2	0	0.213	0.032	0.001	0.059			42.43268;-76.49833
7/10/2019 15:01			0	0.213	0.035	0.001	0.085			
7/10/2019 15:02			0	0.213	0.04	0.001	0.08			
7/10/2019 15:03			0	0.213	0.043	0.001	0.046			
7/10/2019 15:04			0	0.213	0.048	0.002	0.102			
7/10/2019 15:05	12.5	97.2	0	0.213	0.053	0.002	0.101			42.4327;-76.49832
7/10/2019 15:06			0	0.213	0.058	0.002	0.113			
7/10/2019 15:07			0	0.213	0.062	0.002	0.087			
7/10/2019 15:08			0	0.213	0.068	0.002	0.16			
7/10/2019 15:09			0	0.213	0.073	0.003	0.167			
7/10/2019 15:10	12.5	98.2	0	0.213	0.081	0.003	0.145			42.43267;-76.49834
7/10/2019 15:11			0	0.213	0.086	0.003	0.149			
7/10/2019 15:12			0	0.213	0.092	0.003	0.14			
7/10/2019 15:13			0	0.214	0.098	0.004	0.172			
7/10/2019 15:14			0	0.214	0.102	0.004	0.093			
7/10/2019 15:15	12.5	98.2	0	0.214	0.107	0.004	0.118			
7/10/2019 15:15										42.43275;-76.49835
7/10/2019 15:16			0	0.214	0.112	0.005	0.108			
7/10/2019 15:17			0	0.214	0.116	0.005	0.176			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/10/2019 15:18			0	0.25	0.124	0.005	0.162			
7/10/2019 15:19			0	0.25	0.128	0.006	0.175			
7/10/2019 15:20	12.5	106.3	0	0.25	0.136	0.006	0.164			
7/10/2019 15:20										42.43273;-76.49839
7/10/2019 15:21			0	0.25	0.141	0.006	0.217			
7/10/2019 15:22			0	0.25	0.149	0.007	0.209			
7/10/2019 15:23			0	0.25	0.154	0.007	0.216			
7/10/2019 15:24			0	0.271	0.159	0.008	0.265			
7/10/2019 15:25	12.5	103.2	0	0.271	0.165	0.008	0.22			
7/10/2019 15:25										42.43273;-76.49837
7/10/2019 15:26			0	0.271	0.171	0.009	0.234			
7/10/2019 15:27			0	0.271	0.177	0.009	0.249			
7/10/2019 15:28			0	0.295	0.184	0.009	0.271			
7/10/2019 15:29			0	0.295	0.193	0.01	0.225			
7/10/2019 15:30	12.5	98.2	0	0.35	0.2	0.01	0.241			
7/10/2019 15:30										42.43277;-76.49836
7/10/2019 15:31			0	0.35	0.207	0.011	0.247			
7/10/2019 15:32			0	0.35	0.213	0.011	0.26			
7/10/2019 15:33			0	0.35	0.215	0.012	0.28			
7/10/2019 15:34			0	0.35	0.22	0.012	0.251			
7/10/2019 15:35	12.5	100.2	0	0.35	0.223	0.013	0.262			42.43279;-76.49838
7/10/2019 15:36			0	0.35	0.226	0.013	0.236			
7/10/2019 15:37			0	0.35	0.229	0.014	0.269			
7/10/2019 15:38			0	0.35	0.233	0.015	0.232			
7/10/2019 15:39			0	0.35	0.238	0.015	0.247			
7/10/2019 15:40	12.5	103.2	0	0.35	0.24	0.016	0.27			42.43282;-76.49839
7/10/2019 15:41			0	0.35	0.242	0.016	0.243			
7/10/2019 15:42			0	0.35	0.245	0.017	0.245			
7/10/2019 15:43			0	0.35	0.247	0.017	0.288			
7/10/2019 15:44			0	0.35	0.249	0.018	0.279			
7/10/2019 15:45	12.5	99.2	0	0.35	0.252	0.018	0.262			42.4327;-76.49834
7/10/2019 15:46			0	0.35	0.254	0.019	0.282			
7/10/2019 15:47			0	0.35	0.257	0.02	0.236			
7/10/2019 15:48			0	0.35	0.26	0.02	0.277			
7/10/2019 15:49			0	0.35	0.261	0.021	0.259			
7/10/2019 15:50	12.5	99.2	0	0.35	0.263	0.021	0.277			
7/10/2019 15:50										42.43256;-76.49831
7/10/2019 15:51			0	0.35	0.265	0.022	0.266			
7/10/2019 15:52			0	0.35	0.266	0.022	0.285			
7/10/2019 15:53			0	0.35	0.268	0.023	0.296			
7/10/2019 15:54			0	0.35	0.27	0.023	0.263			
7/10/2019 15:55	12.5	105.3	0	0.35	0.271	0.024	0.276			
7/10/2019 15:55										42.43265;-76.49834
7/10/2019 15:56			0	0.35	0.273	0.025	0.27			
7/10/2019 15:57			0	0.35	0.274	0.025	0.281			
7/10/2019 15:58			0	0.35	0.275	0.026	0.287			
7/10/2019 15:59			0	0.35	0.275	0.026	0.282			
7/10/2019 16:00	12.5	114.4	0	0.35	0.274	0.027	0.277			
7/10/2019 16:00										42.4326;-76.49834
7/10/2019 16:01			0	0.35	0.273	0.028	0.273			
7/10/2019 16:02			0	0.35	0.273	0.028	0.287			
7/10/2019 16:03			0	0.35	0.273	0.029	0.283			
7/10/2019 16:04			0	0.35	0.273	0.029	0.276			
7/10/2019 16:05	12.5	99.2	0	0.35	0.274	0.03	0.272			
7/10/2019 16:05										42.4326;-76.49832
7/10/2019 16:06			0	0.35	0.274	0.03	0.281			
7/10/2019 16:07			0	0.35	0.274	0.031	0.281			
7/10/2019 16:08			0	0.35	0.273	0.031	0.253			
7/10/2019 16:09			0	0.35	0.271	0.032	0.225			
7/10/2019 16:10	12.5	98.2	0	0.35	0.268	0.032	0.242			42.43258;-76.49834
7/10/2019 16:11			0	0.35	0.266	0.033	0.232			
7/10/2019 16:12			0	0.35	0.263	0.033	0.22			
7/10/2019 16:13			0	0.35	0.259	0.034	0.211			
7/10/2019 16:14			0	0.35	0.255	0.034	0.223			
7/10/2019 16:15	12.5	100.2	0	0.35	0.251	0.035	0.223			42.43261;-76.49829
7/10/2019 16:16			0	0.35	0.248	0.035	0.217			
7/10/2019 16:17			0	0.35	0.245	0.036	0.204			
7/10/2019 16:18			0	0.35	0.241	0.036	0.223			
7/10/2019 16:19			0	0.35	0.236	0.037	0.214			
7/10/2019 16:20	12.5	101.2	0	0.35	0.232	0.037	0.202			42.43256;-76.49828
7/10/2019 16:21			0	0.35	0.228	0.037	0.216			
7/10/2019 16:22			0	0.35	0.224	0.038	0.195			
7/10/2019 16:23			0	0.35	0.219	0.038	0.182			
7/10/2019 16:24			0	0.35	0.214	0.039	0.155			
7/10/2019 16:25	12.5	97.2	0	0.35	0.21	0.039	0.18			42.43253;-76.49831
7/10/2019 16:26			0	0.35	0.207	0.039	0.187			
7/10/2019 16:27			0	0.35	0.204	0.04	0.18			
7/10/2019 16:28			0	0.35	0.201	0.04	0.173			
7/10/2019 16:29			0	0.35	0.198	0.041	0.178			
7/10/2019 16:30	12.5	98.2	0	0.35	0.194	0.041	0.169			42.4325;-76.49832
7/10/2019 16:31			0	0.35	0.191	0.041	0.148			
7/10/2019 16:32			0	0.35	0.187	0.042	0.17			
7/10/2019 16:33			0	0.35	0.185	0.042	0.172			
7/10/2019 16:34			0	0.35	0.182	0.042	0.159			
7/10/2019 16:35	12.4	105.3	0	0.35	0.179	0.043	0.183			
7/10/2019 16:35										42.43254;-76.49826
7/10/2019 16:36			0	0.35	0.176	0.043	0.168			
7/10/2019 16:37			0	0.35	0.173	0.043	0.175			
7/10/2019 16:38			0	0.35	0.172	0.044	0.175			
7/10/2019 16:39			0	0.35	0.172	0.044	0.178			
7/10/2019 16:40	12.5	102.2	0	0.35	0.17	0.044	0.191			
7/10/2019 16:40										42.43258;-76.49831
7/10/2019 16:41			0	0.35	0.17	0.045	0.184			
7/10/2019 16:42			0	0.35	0.17	0.045	0.183			
7/10/2019 16:43			0	0.35	0.169	0.045	0.184			
7/10/2019 16:44			0	0.35	0.17	0.046	0.166			
7/10/2019 16:45	12.4	101.2	0	0.35	0.17	0.046	0.181			
7/10/2019 16:45										42.4326;-76.49814
7/10/2019 16:46			0	0.35	0.171	0.047	0.17			
7/10/2019 16:47			0	0.35	0.172	0.047	0.199			
7/10/2019 16:48			0	0.35	0.172	0.047	0.203			
7/10/2019 16:49			0	0.35	0.174	0.048	0.2			
7/10/2019 16:50	12.4	99.2	0	0.35	0.176	0.048	0.188			42.43259;-76.4983
7/10/2019 16:51			0	0.35	0.178	0.049	0.207			
7/10/2019 16:52			0	0.35	0.181	0.049	0.206			
7/10/2019 16:53			0	0.35	0.183	0.049	0.216			
7/10/2019 16:54			0	0.35	0.185	0.05	0.213			
7/10/2019 16:55	12.4	99.2	0	0.35	0.188	0.05	0.215			42.43274;-76.49826
7/10/2019 16:56			0	0.35	0.19	0.051	0.222			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/10/2019 16:57			0	0.35	0.193	0.051	0.211			
7/10/2019 16:58			0	0.35	0.196	0.052	0.226			
7/10/2019 16:59			0	0.35	0.198	0.052	0.205			
7/10/2019 17:00	12.4	104.3	0	0.35	0.2	0.052	0.232			42.43259;-76.49828
7/10/2019 17:01			0	0.35	0.202	0.053	0.233			
7/10/2019 17:02			0	0.35	0.206	0.053	0.222			
7/10/2019 17:03			0	0.35	0.209	0.054	0.217			
7/10/2019 17:04			0	0.35	0.212	0.054	0.227			
7/10/2019 17:05	12.4	99.2	0	0.35	0.213	0.055	0.239			42.43259;-76.49828
7/10/2019 17:06			0	0.35	0.215	0.055	0.224			
7/10/2019 17:07			0	0.35	0.216	0.056	0.213			
7/10/2019 17:08			0	0.35	0.217	0.056	0.225			
7/10/2019 17:09			0	0.35	0.218	0.057	0.218			
7/10/2019 17:10	12.4	106.3	0	0.35	0.219	0.057	0.219			
7/10/2019 17:10										42.43262;-76.49831
7/10/2019 17:11			0	0.35	0.219	0.058	0.216			
7/10/2019 17:12			0	0.35	0.219	0.058	0.225			
7/10/2019 17:13			0	0.35	0.219	0.058	0.223			
7/10/2019 17:14			0	0.35	0.219	0.059	0.229			
7/10/2019 17:15	12.4	101.2	0	0.35	0.221	0.059	0.229			
7/10/2019 17:15										42.43263;-76.49832
7/10/2019 17:16			0	0.35	0.221	0.06	0.226			
7/10/2019 17:17			0	0.35	0.221	0.06	0.221			
7/10/2019 17:18			0	0.35	0.221	0.061	0.234			
7/10/2019 17:19			0	0.35	0.221	0.061	0.229			
7/10/2019 17:20	12.4	98.2	0	0.35	0.222	0.062	0.226			
7/10/2019 17:20										42.43261;-76.49831
7/10/2019 17:21			0	0.35	0.222	0.062	0.234			
7/10/2019 17:22			0	0.35	0.223	0.063	0.232			
7/10/2019 17:23			0	0.35	0.224	0.063	0.223			
7/10/2019 17:24			0	0.35	0.224	0.064	0.231			
7/10/2019 17:25	12.4	100.2	0	0.35	0.225	0.064	0.232			42.43261;-76.49826
7/10/2019 17:26			0	0.35	0.226	0.065	0.235			
7/10/2019 17:27			0	0.35	0.227	0.065	0.229			
7/10/2019 17:28			0	0.35	0.228	0.066	0.234			
7/10/2019 17:29			0	0.35	0.229	0.066	0.238			
7/10/2019 17:30	12.4	114.4	0	0.35	0.229	0.067	0.243			
7/10/2019 17:30										42.43261;-76.4983
7/10/2019 17:31			0	0.35	0.23	0.067	0.239			
7/10/2019 17:32			0	0.35	0.232	0.068	0.232			
7/10/2019 17:33			0	0.35	0.232	0.068	0.234			
7/10/2019 17:34			0	0.35	0.232	0.069	0.236			
7/10/2019 17:35	12.4	102.2	0	0.35	0.233	0.069	0.235			
7/10/2019 17:35										42.43262;-76.49828
7/10/2019 17:36			0	0.35	0.233	0.07	0.226			
7/10/2019 17:37			0	0.35	0.233	0.07	0.239			
7/10/2019 17:38			0	0.35	0.234	0.071	0.231			
7/10/2019 17:39			0	0.35	0.234	0.071	0.224			
7/10/2019 17:40	12.4	99.2	0	0.35	0.234	0.071	0.227			
7/10/2019 17:40										42.43261;-76.49827
7/10/2019 17:41			0	0.35	0.233	0.072	0.221			
7/10/2019 17:42			0	0.35	0.233	0.072	0.22			
7/10/2019 17:43			0	0.35	0.232	0.073	0.227			
7/10/2019 17:44			0	0.35	0.231	0.073	0.225			
7/10/2019 17:45	12.4	110.3	0	0.35	0.231	0.074	0.231			
7/10/2019 17:45										42.43264;-76.49827
7/10/2019 17:46			0	0.35	0.23	0.074	0.222			
7/10/2019 17:47			0	0.35	0.229	0.075	0.224			
7/10/2019 17:48			0	0.35	0.228	0.075	0.23			
7/10/2019 17:49			0	0.35	0.228	0.076	0.226			
7/10/2019 17:50	12.4	110.3	0	0.35	0.228	0.076	0.227			42.43263;-76.49831
7/10/2019 17:51			0	0.35	0.227	0.077	0.216			
7/10/2019 17:52			0	0.35	0.226	0.077	0.209			
7/10/2019 17:53			0	0.35	0.225	0.078	0.212			
7/10/2019 17:54			0	0.35	0.224	0.078	0.207			
7/10/2019 17:55	12.4	109.3	0	0.35	0.222	0.078	0.212			42.43257;-76.49825
7/10/2019 17:56			0	0.35	0.221	0.079	0.199			
7/10/2019 17:57			0	0.35	0.22	0.079	0.211			
7/10/2019 17:58			0	0.35	0.219	0.08	0.216			
7/10/2019 17:59			0	0.35	0.218	0.08	0.205			
7/10/2019 18:00	12.4	109.3	0	0.35	0.217	0.081	0.212			42.4325;-76.49821
7/10/2019 18:01			0	0.35	0.216	0.081	0.209			
7/10/2019 18:02			0	0.35	0.214	0.081	0.19			
7/10/2019 18:03			0	0.35	0.212	0.082	0.198			
7/10/2019 18:04			0	0.35	0.21	0.082	0.205			
7/10/2019 18:05	12.4	102.2	0	0.35	0.208	0.083	0.205			42.43255;-76.4983
7/10/2019 18:06			0	0.35	0.207	0.083	0.196			
7/10/2019 18:07			0	0.35	0.205	0.084	0.191			
7/10/2019 18:08			0	0.35	0.204	0.084	0.175			
7/10/2019 18:09			0	0.35	0.202	0.084	0.191			
7/10/2019 18:10	12.4	100.2	0	0.35	0.201	0.085	0.194			
7/10/2019 18:10										42.43259;-76.4983
7/10/2019 18:11			0	0.35	0.2	0.085	0.199			
7/10/2019 18:12			0	0.35	0.199	0.086	0.197			
7/10/2019 18:13			0	0.35	0.198	0.086	0.213			
7/10/2019 18:14			0	0.35	0.198	0.086	0.204			
7/10/2019 18:15	12.4	100.2	0	0.35	0.198	0.087	0.203			42.43262;-76.49831
7/10/2019 18:16			0	0.35	0.197	0.087	0.198			
7/10/2019 18:17			0	0.35	0.197	0.088	0.199			
7/10/2019 18:18			0	0.35	0.197	0.088	0.206			
7/10/2019 18:19			0	0.35	0.197	0.088	0.192			
7/10/2019 18:20	12.4	102.2	0	0.35	0.197	0.089	0.21			42.43256;-76.49827
7/10/2019 18:21			0	0.35	0.197	0.089	0.197			
7/10/2019 18:22			0	0.35	0.197	0.09	0.195			
7/10/2019 18:23			0	0.35	0.197	0.09	0.205			
7/10/2019 18:24			0	0.35	0.199	0.091	0.215			
7/10/2019 18:25	12.4	100.2	0	0.35	0.2	0.091	0.215			42.43261;-76.49828
7/10/2019 18:26			0	0.35	0.202	0.091	0.193			
7/10/2019 18:27			0	0.35	0.202	0.092	0.193			
7/10/2019 18:28			0	0.35	0.201	0.092	0.187			
7/10/2019 18:29			0	0.35	0.2	0.093	0.191			
7/10/2019 18:30	12.4	100.2	0	0.35	0.199	0.093	0.188			42.43262;-76.49828
7/10/2019 18:31			0	0.35	0.198	0.093	0.192			
7/10/2019 18:32			0	0.35	0.197	0.094	0.188			
7/10/2019 18:33			0	0.35	0.195	0.094	0.17			
7/10/2019 18:34			0	0.35	0.194	0.095	0.178			
7/10/2019 18:35	12.4	100.2	0	0.35	0.193	0.095	0.174			
7/10/2019 18:35										42.43255;-76.49828
7/10/2019 18:36			0	0.35	0.191	0.095	0.173			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/10/2019 18:37			0	0.35	0.189	0.096	0.182			
7/10/2019 18:38			0	0.35	0.188	0.096	0.165			
7/10/2019 18:39			0	0.35	0.185	0.096	0.188			
7/10/2019 18:40	12.4	103.2	0	0.35	0.183	0.097	0.181			
7/10/2019 18:40										42.43254;-76.49827
7/10/2019 18:41			0	0.35	0.181	0.097	0.183			
7/10/2019 18:42			0	0.35	0.18	0.097	0.19			
7/10/2019 18:43			0	0.35	0.18	0.098	0.185			
7/10/2019 18:44			0	0.35	0.179	0.098	0.188			
7/10/2019 18:45	12.4	100.2	0	0.35	0.179	0.099	0.19			
7/10/2019 18:45										42.4325;-76.49828
7/10/2019 18:46			0	0.35	0.179	0.099	0.194			
7/10/2019 18:47			0	0.35	0.179	0.099	0.177			
7/10/2019 18:48			0	0.35	0.179	0.1	0.189			
7/10/2019 18:49			0	0.35	0.179	0.1	0.187			
7/10/2019 18:50	12.4	100.2	0	0.35	0.18	0.101	0.185			
7/10/2019 18:50										42.43249;-76.49831
7/10/2019 18:51			0	0.35	0.181	0.101	0.182			
7/10/2019 18:52			0	0.35	0.182	0.101	0.184			
7/10/2019 18:53			0	0.35	0.183	0.102	0.188			
7/10/2019 18:54			0	0.35	0.184	0.102	0.188			
7/10/2019 18:55	12.4	102.2	0	0.35	0.185	0.103	0.173			42.43252;-76.49833
7/10/2019 18:56			0	0.35	0.184	0.103	0.187			
7/10/2019 18:57			0	0.35	0.184	0.103	0.184			
7/10/2019 18:58			0	0.35	0.183	0.104	0.173			
7/10/2019 18:59			0	0.35	0.183	0.104	0.181			
7/10/2019 19:00	12.4	99.2	0	0.35	0.182	0.104	0.185			42.43248;-76.49834
7/10/2019 19:01			0	0.35	0.183	0.105	0.181			
7/10/2019 19:02			0	0.35	0.183	0.105	0.187			
7/10/2019 19:03			0	0.35	0.183	0.106	0.187			
7/10/2019 19:04			0	0.35	0.183	0.106	0.193			
7/10/2019 19:05	12.4	104.3	0	0.35	0.184	0.106	0.214			42.43246;-76.49834
7/10/2019 19:06			0	0.35	0.185	0.107	0.231			
7/10/2019 19:07			0	0.35	0.186	0.107	0.183			
7/10/2019 19:08			0	0.35	0.186	0.108	0.184			
7/10/2019 19:09			0	0.35	0.185	0.108	0.186			
7/10/2019 19:10	12.4	107.3	0	0.35	0.185	0.108	0.193			42.43243;-76.49833
7/10/2019 19:11			0	0.35	0.186	0.109	0.18			
7/10/2019 19:12			0	0.35	0.186	0.109	0.19			
7/10/2019 19:13			0	0.35	0.187	0.109	0.182			
7/10/2019 19:14			0	0.35	0.187	0.11	0.184			
7/10/2019 19:15	12.4	116.4	0	0.35	0.188	0.11	0.169			
7/10/2019 19:15										42.43242;-76.49833
7/10/2019 19:16			0	0.35	0.187	0.111	0.185			
7/10/2019 19:17			0	0.35	0.187	0.111	0.176			
7/10/2019 19:18			0	0.35	0.187	0.111	0.182			
7/10/2019 19:19			0	0.35	0.186	0.112	0.178			
7/10/2019 19:20	12.4	100.2	0	0.35	0.185	0.112	0.183			
7/10/2019 19:20										42.43243;-76.49834
7/10/2019 19:21			0	0.35	0.184	0.112	0.173			
7/10/2019 19:22			0	0.35	0.182	0.113	0.182			
7/10/2019 19:23			0	0.35	0.182	0.113	0.174			
7/10/2019 19:24			0	0.35	0.181	0.114	0.175			
7/10/2019 19:25	12.4	119.4	0	0.35	0.18	0.114	0.185			
7/10/2019 19:25										42.43245;-76.49836
7/10/2019 19:26			0	0.35	0.18	0.114	0.179			
7/10/2019 19:27			0	0.35	0.179	0.115	0.176			
7/10/2019 19:28			0	0.35	0.179	0.115	0.18			
7/10/2019 19:29			0	0.35	0.179	0.115	0.171			
7/10/2019 19:30	12.4	99.2	0	0.35	0.178	0.116	0.169			
7/10/2019 19:30										42.43244;-76.49834
7/10/2019 19:31			0	0.35	0.178	0.116	0.173			
7/10/2019 19:32			0	0.35	0.177	0.117	0.179			
7/10/2019 19:33			0	0.35	0.177	0.117	0.168			
7/10/2019 19:34			0	0.35	0.176	0.117	0.168			
7/10/2019 19:35	12.4	100.2	0	0.35	0.176	0.118	0.175			42.43242;-76.49836
7/10/2019 19:36			0	0.35	0.175	0.118	0.165			
7/10/2019 19:37			0	0.35	0.175	0.118	0.162			
7/10/2019 19:38			0	0.35	0.174	0.119	0.169			
7/10/2019 19:39			0	0.35	0.173	0.119	0.165			
7/10/2019 19:40	12.4	101.2	0	0.35	0.172	0.119	0.164			42.43245;-76.49832
7/10/2019 19:41			0	0.35	0.171	0.12	0.165			
7/10/2019 19:42			0	0.35	0.17	0.12	0.162			
7/10/2019 19:43			0	0.35	0.169	0.12	0.166			
7/10/2019 19:44			0	0.35	0.169	0.121	0.173			
7/10/2019 19:45	12.4	109.3	0	0.35	0.169	0.121	0.17			42.43244;-76.49831
7/10/2019 19:46			0	0.35	0.168	0.121	0.171			
7/10/2019 19:47			0	0.35	0.168	0.122	0.173			
7/10/2019 19:48			0	0.35	0.167	0.122	0.169			
7/10/2019 19:49			0	0.35	0.167	0.122	0.17			
7/10/2019 19:50	12.4	101.2	0	0.35	0.167	0.123	0.164			
7/10/2019 19:50										42.43243;-76.4983
7/10/2019 19:51			0	0.35	0.166	0.123	0.161			
7/10/2019 19:52			0	0.35	0.166	0.124	0.174			
7/10/2019 19:53			0	0.35	0.166	0.124	0.162			
7/10/2019 19:54			0	0.35	0.166	0.124	0.167			
7/10/2019 19:55	12.4	102.2	0	0.35	0.166	0.125	0.181			
7/10/2019 19:55										42.43251;-76.4983
7/10/2019 19:56			0	0.35	0.167	0.125	0.171			
7/10/2019 19:57			0	0.35	0.167	0.125	0.157			
7/10/2019 19:58			0	0.35	0.166	0.126	0.164			
7/10/2019 19:59			0	0.35	0.166	0.126	0.168			
7/10/2019 20:00	12.4	102.2	0	0.35	0.165	0.126	0.163			
7/10/2019 20:00										42.43253;-76.49831
7/10/2019 20:01			0	0.35	0.165	0.127	0.162			
7/10/2019 20:02			0	0.35	0.164	0.127	0.152			
7/10/2019 20:03			0	0.35	0.163	0.127	0.153			
7/10/2019 20:04			0	0.35	0.162	0.128	0.155			
7/10/2019 20:05	12.4	100.2	0	0.35	0.161	0.128	0.141			
7/10/2019 20:05										42.43257;-76.4983
7/10/2019 20:06			0	0.35	0.16	0.128	0.137			
7/10/2019 20:07			0	0.35	0.158	0.128	0.145			
7/10/2019 20:08			0	0.35	0.157	0.129	0.128			
7/10/2019 20:09			0	0.35	0.154	0.129	0.138			
7/10/2019 20:10	12.4	99.2	0	0.35	0.152	0.129	0.138			42.43258;-76.49835
7/10/2019 20:11			0	0.35	0.15	0.13	0.133			
7/10/2019 20:12			0	0.35	0.148	0.13	0.136			
7/10/2019 20:13			0	0.35	0.146	0.13	0.13			
7/10/2019 20:14			0	0.35	0.145	0.13	0.128			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/10/2019 20:15	12.4	99.2	0	0.35	0.143	0.131	0.13			42.43258;-76.49836
7/10/2019 20:16			0	0.35	0.14	0.131	0.131			
7/10/2019 20:17			0	0.35	0.139	0.131	0.129			
7/10/2019 20:18			0	0.35	0.137	0.132	0.121			
7/10/2019 20:19			0	0.35	0.134	0.132	0.126			
7/10/2019 20:20	12.4	102.2	0	0.35	0.133	0.132	0.123			42.43264;-76.49836
7/10/2019 20:21			0	0.35	0.132	0.132	0.12			
7/10/2019 20:22			0	0.35	0.13	0.133	0.121			
7/10/2019 20:23			0	0.35	0.129	0.133	0.115			
7/10/2019 20:24			0	0.35	0.128	0.133	0.123			
7/10/2019 20:25	12.4	100.2	0	0.35	0.127	0.133	0.116			42.43265;-76.49836
7/10/2019 20:26			0	0.35	0.125	0.134	0.111			
7/10/2019 20:27			0	0.35	0.123	0.134	0.11			
7/10/2019 20:28			0	0.35	0.122	0.134	0.102			
7/10/2019 20:29			0	0.35	0.119	0.134	0.094			
7/10/2019 20:30	12.4	102.2	0	0.35	0.117	0.134	0.096			
7/10/2019 20:30										42.43264;-76.49834
7/10/2019 20:31			0	0.35	0.115	0.135	0.104			
7/10/2019 20:32			0	0.35	0.113	0.135	0.1			
7/10/2019 20:33			0	0.35	0.112	0.135	0.096			
7/10/2019 20:34			0	0.35	0.11	0.135	0.095			
7/10/2019 20:35	12.3	110.3	0	0.35	0.108	0.135	0.083			
7/10/2019 20:35										42.43256;-76.49832
7/10/2019 20:36			0	0.35	0.105	0.136	0.09			
7/10/2019 20:37			0	0.35	0.103	0.136	0.092			
7/10/2019 20:38			0	0.35	0.101	0.136	0.093			
7/10/2019 20:39			0	0.35	0.099	0.136	0.087			
7/10/2019 20:40	12.3	97.2	0	0.35	0.097	0.136	0.076			
7/10/2019 20:40										42.43258;-76.49832
7/10/2019 20:41			0	0.35	0.095	0.137	0.082			
7/10/2019 20:42			0	0.35	0.093	0.137	0.082			
7/10/2019 20:43			0	0.35	0.091	0.137	0.077			
7/10/2019 20:44			0	0.35	0.09	0.137	0.075			
7/10/2019 20:45	12.3	100.2	0	0.35	0.088	0.137	0.069			42.43256;-76.49828
7/10/2019 20:46			0	0.35	0.087	0.137	0.078			
7/10/2019 20:47			0	0.35	0.085	0.138	0.078			
7/15/2019 13:36	12.6	133.6								
7/15/2019 13:36										42.433312199999996;-76.49796669999999
7/15/2019 13:39			0	0.12	0	0	0			
7/15/2019 13:40	12.6	96.2	0	0.12	0	0	0			42.43251;-76.49826
7/15/2019 13:41			0	0.12	0	0	0	0	0.016	
7/15/2019 13:42			0	0.12	0	0	0	0	0.017	
7/15/2019 13:43			0	0.12	0	0	0	0	0.014	
7/15/2019 13:44			0	0.12	0	0	0	0	0.013	
7/15/2019 13:45	12.6	101.2	0	0.12	0	0	0	0	0.014	42.43251;-76.49824
7/15/2019 13:46			0	0.12	0	0	0	0	0.014	
7/15/2019 13:47			0	0.12	0	0	0	0	0.013	
7/15/2019 13:48			0	0.12	0	0	0	0	0.013	
7/15/2019 13:49			0	0.12	0	0	0	0	0.015	
7/15/2019 13:50	12.6	107.3	0	0.991	0	0	0	0	0.018	42.43251;-76.49825
7/15/2019 13:51			0	0.991	0.015	0	0	0	0.013	
7/15/2019 13:52			0	0.991	0.012	0	0	0	0.014	
7/15/2019 13:53			0	0.991	0.011	0	0	0	0.016	
7/15/2019 13:54			0	0.991	0.011	0	0	0	0.022	
7/15/2019 13:55	12.6	112.4	0	0.991	0.011	0	0	0	0.014	42.43251;-76.49826
7/15/2019 13:56			0	0.991	0.011	0	0	0	0.013	
7/15/2019 13:57			0	0.991	0.011	0	0	0.001	0.013	
7/15/2019 13:58			0	0.991	0.011	0	0	0.001	0.029	
7/15/2019 13:59			0	0.991	0.011	0	0	0.001	0.016	
7/15/2019 14:00	12.5	104.3	0	0.991	0.011	0	0	0.001	0.011	42.43252;-76.49826
7/15/2019 14:01			0	0.991	0.011	0	0	0.001	0.012	
7/15/2019 14:02			0	0.991	0.011	0	0	0.001	0.012	
7/15/2019 14:03			0	0.991	0.011	0	0	0.001	0.011	
7/15/2019 14:04			0	0.991	0.011	0	0	0.001	0.012	
7/15/2019 14:05	12.6	101.2	0	0.991	0	0	0	0.001	0.013	42.43252;-76.49827
7/15/2019 14:06			0	0.991	0	0	0	0.001	0.012	
7/15/2019 14:07			0	0.991	0	0	0	0.001	0.012	
7/15/2019 14:08			0	0.991	0	0	0	0.001	0.013	
7/15/2019 14:09			0	0.991	0	0	0	0.001	0.012	
7/15/2019 14:10	12.5	97.2	0	0.991	0	0	0	0.001	0.012	42.43251;-76.49825
7/15/2019 14:11			0	0.991	0	0	0	0.001	0.013	
7/15/2019 14:12			0	0.991	0	0	0	0.001	0.012	
7/15/2019 14:13			0	0.991	0	0	0	0.001	0.012	
7/15/2019 14:14			0	0.991	0	0	0	0.001	0.016	
7/15/2019 14:15	12.6	109.3	0	0.991	0	0	0	0.001	0.014	42.43254;-76.49825
7/15/2019 14:16			0	0.991	0	0	0	0.001	0.013	
7/15/2019 14:17			0	0.991	0	0	0	0.001	0.014	
7/15/2019 14:18			0	0.991	0	0	0	0.001	0.014	
7/15/2019 14:19			0	0.991	0	0	0	0.001	0.014	
7/15/2019 14:20	12.5	99.2	0	0.991	0	0	0	0.001	0.015	42.43255;-76.49825
7/15/2019 14:21			0	0.991	0	0	0	0.001	0.017	
7/15/2019 14:22			0	0.991	0	0	0	0.001	0.014	
7/15/2019 14:23			0	0.991	0	0	0	0.001	0.013	
7/15/2019 14:24			0	0.991	0	0	0	0.001	0.013	
7/15/2019 14:25	12.5	101.2	0	0.991	0	0	0	0.001	0.019	42.43256;-76.49825
7/15/2019 14:26			0	0.991	0	0	0	0.001	0.016	
7/15/2019 14:27			0	0.991	0	0	0	0.001	0.014	
7/15/2019 14:28			0	0.991	0	0	0	0.001	0.013	
7/15/2019 14:29			0	0.991	0	0	0	0.001	0.013	
7/15/2019 14:30	12.5	98.2	0	0.991	0	0	0	0.001	0.013	42.43258;-76.49828
7/15/2019 14:31			0	0.991	0	0	0	0.001	0.014	
7/15/2019 14:32			0	0.991	0	0	0	0.002	0.014	
7/15/2019 14:33			0	0.991	0	0	0	0.002	0.017	
7/15/2019 14:34			0	0.991	0	0	0	0.002	0.015	
7/15/2019 14:35	12.5	112.4	0	0.991	0	0	0	0.002	0.014	42.43257;-76.49824
7/15/2019 14:36			0	0.991	0	0	0	0.002	0.013	
7/15/2019 14:37			0	0.991	0	0	0	0.002	0.013	
7/15/2019 14:38			0	0.991	0	0	0	0.002	0.016	
7/15/2019 14:39			0	0.991	0	0	0	0.002	0.02	
7/15/2019 14:40	12.5	104.3	0	0.991	0	0	0	0.002	0.017	42.43259;-76.49828
7/15/2019 14:41			0	0.991	0	0	0	0.002	0.016	
7/15/2019 14:42			0	0.991	0	0	0	0.002	0.017	
7/15/2019 14:43			0	0.991	0	0	0	0.002	0.014	
7/15/2019 14:44			0	0.991	0	0	0	0.002	0.025	
7/15/2019 14:45	12.5	100.2	0	0.991	0	0	0	0.002	0.014	42.43259;-76.49826
7/15/2019 14:46			0	0.991	0	0	0	0.002	0.014	
7/15/2019 14:47			0	0.991	0	0	0	0.002	0.016	
7/15/2019 14:48			0	0.991	0	0	0	0.002	0.03	
7/15/2019 14:49			0	0.991	0	0	0	0.002	0.03	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/15/2019 14:50	12.1	104.3	0	0.991	0	0	0	0.002	0.021	42.43262;-76.49831
7/15/2019 14:51			0	0.991	0	0	0	0.002	0.016	
7/15/2019 14:52			0	0.991	0	0	0	0.002	0.016	
7/15/2019 14:53			0	0.991	0	0	0	0.002	0.016	
7/15/2019 14:54			0	0.991	0	0	0	0.002	0.015	
7/15/2019 14:55	12.3	100.2	0	0.991	0	0	0	0.002	0.015	42.43261;-76.49832
7/15/2019 14:56			0	0.991	0	0	0	0.002	0.014	
7/15/2019 14:57			0	0.991	0	0	0	0.002	0.035	
7/15/2019 14:58			0	0.991	0	0	0	0.002	0.014	
7/15/2019 14:59			0	0.991	0	0	0	0.003	0.013	
7/15/2019 15:00	12.3	108.3	0	0.991	0	0	0	0.003	0.013	42.43261;-76.49829
7/15/2019 15:01			0	0.991	0	0	0	0.003	0.013	
7/15/2019 15:02			0	0.991	0	0	0	0.003	0.013	
7/15/2019 15:03			0	0.991	0	0	0	0.003	0.014	
7/15/2019 15:04			0	0.991	0	0	0	0.003	0.014	
7/15/2019 15:05	12.4	104.3	0	0.991	0	0	0	0.003	0.057	42.43263;-76.49831
7/15/2019 15:06			0	0.991	0	0	0	0.003	0.018	
7/15/2019 15:07			0	0.991	0	0	0	0.003	0.017	
7/15/2019 15:08			0	0.991	0	0	0	0.003	0.012	
7/15/2019 15:09			0	0.991	0	0	0	0.003	0.011	
7/15/2019 15:10	12.5	120.5	0	0.991	0	0	0	0.003	0.011	42.43263;-76.49828
7/15/2019 15:11			0	0.991	0	0	0	0.003	0.011	
7/15/2019 15:12			0	0.991	0	0	0	0.003	0.011	
7/15/2019 15:13			0	0.991	0	0	0	0.003	0.012	
7/15/2019 15:14			0	0.991	0	0	0	0.003	0.012	
7/15/2019 15:15	12.5	100.2	0	0.991	0	0	0	0.003	0.012	42.43273;-76.49834
7/15/2019 15:16			0	0.991	0	0	0	0.003	0.012	
7/15/2019 15:17			0	0.991	0	0	0	0.003	0.012	
7/15/2019 15:18			0	0.991	0	0	0	0.003	0.011	
7/15/2019 15:19			0	0.991	0	0	0	0.003	0.011	
7/15/2019 15:20	12.5	109.3	0	0.991	0	0	0	0.003	0.011	42.43279;-76.49839
7/15/2019 15:21			0	0.991	0	0	0	0.003	0.011	
7/15/2019 15:22			0	0.991	0	0	0	0.003	0.011	
7/15/2019 15:23			0	0.991	0	0	0	0.003	0.012	
7/15/2019 15:24			0	0.991	0	0	0	0.003	0.013	
7/15/2019 15:25	12.5	102.2	0	0.991	0	0	0	0.003	0.012	
7/15/2019 15:25										42.43266;-76.49831
7/15/2019 15:26			0	0.991	0	0	0.005	0.003	0.019	
7/15/2019 15:27			0	0.991	0	0	0.001	0.003	0.016	
7/15/2019 15:28			0	0.991	0	0	0	0.003	0.018	
7/15/2019 15:29			0	0.991	0	0	0	0.003	0.023	
7/15/2019 15:30	12.5	105.3	0	0.991	0	0	0	0.003	0.014	
7/15/2019 15:30										42.43238;-76.4982
7/15/2019 15:31			0	0.991	0	0	0	0.003	0.012	
7/15/2019 15:32			0	0.991	0	0	0.012	0.004	0.014	
7/15/2019 15:33			0	0.991	0	0	0.003	0.004	0.012	
7/15/2019 15:34			0	0.991	0.001	0	0.001	0.004	0.012	
7/15/2019 15:35	12.5	105.3	0	0.991	0.002	0	0.004	0.004	0.011	
7/15/2019 15:35										42.43241;-76.49822
7/15/2019 15:36			0	0.991	0.003	0	0.022	0.004	0.012	
7/15/2019 15:37			0	0.991	0.004	0	0.033	0.004	0.012	
7/15/2019 15:38			0	0.991	0.006	0	0.019	0.004	0.012	
7/15/2019 15:39			0	0.991	0.007	0	0.014	0.004	0.012	
7/15/2019 15:40	12.5	101.2	0	0.991	0.008	0	0.031	0.004	0.012	
7/15/2019 15:40										42.43217;-76.4982
7/15/2019 15:41			0	0.991	0.009	0	0.005	0.004	0.011	
7/15/2019 15:42			0	0.991	0.011	0	0.027	0.004	0.012	
7/15/2019 15:43			0	0.991	0.012	0	0.036	0.004	0.011	
7/15/2019 15:44			0	0.991	0.014	0	0.029	0.004	0.013	
7/15/2019 15:45	12.5	104.3	0	0.991	0.015	0	0.031	0.004	0.013	
7/15/2019 15:45										42.43234;-76.49825
7/15/2019 15:46			0	0.991	0.017	0.001	0.003	0.004	0.012	
7/15/2019 15:47			0	0.991	0.018	0.001	0.028	0.004	0.01	
7/15/2019 15:48			0	0.991	0.02	0.001	0.054	0.004	0.011	
7/15/2019 15:49			0	0.991	0.023	0.001	0.06	0.004	0.012	
7/15/2019 15:50	12.5	100.2	0	0.991	0.025	0.001	0.036	0.004	0.013	
7/15/2019 15:50										42.43247;-76.49823
7/15/2019 15:51			0	0.991	0.027	0.001	0.041	0.004	0.011	
7/15/2019 15:52			0	0.991	0.029	0.001	0.06	0.004	0.011	
7/15/2019 15:53			0	0.991	0.032	0.001	0.049	0.004	0.011	
7/15/2019 15:54			0	0.991	0.035	0.001	0.074	0.004	0.011	
7/15/2019 15:55	12.5	100.2	0	0.991	0.038	0.001	0.089	0.004	0.013	
7/15/2019 15:55										42.4325;-76.49824
7/15/2019 15:56			0	0.991	0.041	0.002	0.04	0.004	0.012	
7/15/2019 15:57			0	0.991	0.044	0.002	0.078	0.004	0.013	
7/15/2019 15:58			0	0.991	0.049	0.002	0.079	0.004	0.013	
7/15/2019 15:59			0	0.991	0.052	0.002	0.064	0.004	0.011	
7/15/2019 16:00	12.5	99.2	0	0.991	0.056	0.002	0.08	0.004	0.016	
7/15/2019 16:00										42.43254;-76.49823
7/15/2019 16:01			0	0.991	0.06	0.002	0.097	0.004	0.012	
7/15/2019 16:02			0	0.991	0.065	0.003	0.093	0.004	0.011	
7/15/2019 16:03			0	0.991	0.068	0.003	0.082	0.004	0.01	
7/15/2019 16:04			0	0.991	0.072	0.003	0.08	0.004	0.013	
7/15/2019 16:05	12.5	98.2	0	0.991	0.075	0.003	0.09	0.004	0.013	
7/15/2019 16:05										42.43254;-76.49822
7/15/2019 16:06			0	0.991	0.078	0.003	0.096	0.004	0.011	
7/15/2019 16:07			0	0.991	0.082	0.004	0.116	0.004	0.012	
7/15/2019 16:08			0	0.991	0.086	0.004	0.119	0.004	0.018	
7/15/2019 16:09			0	0.991	0.09	0.004	0.121	0.004	0.009	
7/15/2019 16:10	12.5	101.2	0	0.991	0.094	0.004	0.118	0.004	0.009	
7/15/2019 16:10										42.43249;-76.49823
7/15/2019 16:11			0	0.991	0.098	0.005	0.112	0.004	0.009	
7/15/2019 16:12			0	0.991	0.101	0.005	0.104	0.005	0.009	
7/15/2019 16:13			0	0.991	0.103	0.005	0.104	0.005	0.009	
7/15/2019 16:14			0	0.991	0.105	0.005	0.122	0.005	0.01	
7/15/2019 16:15	12.5	105.3	0	0.991	0.108	0.006	0.128	0.005	0.009	
7/15/2019 16:15										42.43247;-76.49825
7/15/2019 16:16			0	0.991	0.111	0.006	0.127	0.005	0.009	
7/15/2019 16:17			0	0.991	0.113	0.006	0.133	0.005	0.009	
7/15/2019 16:18			0	0.991	0.115	0.006	0.119	0.005	0.009	
7/15/2019 16:19			0	0.991	0.117	0.007	0.118	0.005	0.009	
7/15/2019 16:20	12.5	110.3	0	0.991	0.119	0.007	0.143	0.005	0.008	
7/15/2019 16:20										42.43246;-76.49825
7/15/2019 16:21			0	0.991	0.123	0.007	0.135	0.005	0.008	
7/15/2019 16:22			0	0.991	0.125	0.008	0.162	0.005	0.007	
7/15/2019 16:23			0	0.991	0.127	0.008	0.159	0.005	0.007	
7/15/2019 16:24			0	0.991	0.129	0.008	0.158	0.005	0.007	
7/15/2019 16:25	12.5	108.3	0	0.991	0.131	0.009	0.144	0.005	0.007	
7/15/2019 16:25										42.4325;-76.49823

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/15/2019 16:26			0	0.991	0.133	0.009	0.144	0.005	0.007	
7/15/2019 16:27			0	0.991	0.135	0.009	0.164	0.005	0.007	
7/15/2019 16:28			0	0.991	0.138	0.009	0.162	0.005	0.008	
7/15/2019 16:29			0	0.991	0.141	0.01	0.132	0.005	0.009	
7/15/2019 16:30	12.5	127.5	0	0.991	0.143	0.01	0.166	0.005	0.007	
7/15/2019 16:30										42.4325;-76.49821
7/15/2019 16:31			0	0.991	0.144	0.01	0.144	0.005	0.007	
7/15/2019 16:32			0	0.991	0.147	0.011	0.161	0.005	0.007	
7/15/2019 16:33			0	0.991	0.149	0.011	0.169	0.005	0.007	
7/15/2019 16:34			0	0.991	0.151	0.011	0.152	0.005	0.007	
7/15/2019 16:35	12.5	100.2	0	0.991	0.152	0.012	0.154	0.005	0.007	
7/15/2019 16:35										42.43252;-76.49824
7/15/2019 16:36			0	0.991	0.152	0.012	0.152	0.005	0.007	
7/15/2019 16:37			0	0.991	0.153	0.012	0.143	0.005	0.007	
7/15/2019 16:38			0	0.991	0.152	0.013	0.138	0.005	0.007	
7/15/2019 16:39			0	0.991	0.152	0.013	0.111	0.005	0.007	
7/15/2019 16:40	12.5	106.3	0	0.991	0.15	0.013	0.126	0.005	0.007	
7/15/2019 16:40										42.43253;-76.49823
7/15/2019 16:41			0	0.991	0.149	0.013	0.141	0.005	0.007	
7/15/2019 16:42			0	0.991	0.148	0.014	0.144	0.005	0.008	
7/15/2019 16:43			0	0.991	0.146	0.014	0.103	0.005	0.007	
7/15/2019 16:44			0	0.991	0.144	0.014	0.119	0.005	0.008	
7/15/2019 16:45	12.5	109.3	0	0.991	0.142	0.015	0.135	0.005	0.008	
7/15/2019 16:45										42.43253;-76.49828
7/15/2019 16:46			0	0.991	0.14	0.015	0.119	0.005	0.008	
7/15/2019 16:47			0	0.991	0.137	0.015	0.113	0.005	0.008	
7/15/2019 16:48			0	0.991	0.134	0.015	0.115	0.005	0.008	
7/15/2019 16:49			0	0.991	0.132	0.016	0.116	0.005	0.008	
7/15/2019 16:50	12.5	98.2	0	0.991	0.129	0.016	0.109	0.005	0.007	
7/15/2019 16:50										42.43253;-76.49825
7/15/2019 16:51			0	0.991	0.125	0.016	0.084	0.005	0.008	
7/15/2019 16:52			0	0.991	0.122	0.016	0.108	0.005	0.009	
7/15/2019 16:53			0	0.991	0.118	0.016	0.095	0.005	0.009	
7/15/2019 16:54			0	0.991	0.115	0.017	0.106	0.005	0.008	
7/15/2019 16:55	12.5	114.4	0	0.991	0.112	0.017	0.09	0.005	0.008	
7/15/2019 16:55										42.43255;-76.49825
7/15/2019 16:56			0	0.991	0.11	0.017	0.066	0.005	0.008	
7/15/2019 16:57			0	0.991	0.105	0.017	0.078	0.005	0.008	
7/15/2019 16:58			0	0.991	0.103	0.017	0.088	0.005	0.008	
7/15/2019 16:59			0	0.991	0.1	0.017	0.079	0.005	0.009	
7/15/2019 17:00	12.5	104.3	0	0.991	0.098	0.018	0.085	0.005	0.009	
7/15/2019 17:00										42.43252;-76.49824
7/15/2019 17:01			0	0.991	0.095	0.018	0.092	0.005	0.009	
7/15/2019 17:02			0	0.991	0.092	0.018	0.079	0.005	0.009	
7/15/2019 17:03			0	0.991	0.09	0.018	0.088	0.005	0.008	
7/15/2019 17:04			0	0.991	0.087	0.018	0.089	0.005	0.008	
7/15/2019 17:05	12.5	104.3	0	0.991	0.086	0.018	0.085	0.005	0.009	
7/15/2019 17:05										42.43252;-76.49817
7/15/2019 17:06			0	0.991	0.085	0.019	0.098	0.005	0.009	
7/15/2019 17:07			0	0.991	0.085	0.019	0.093	0.005	0.009	
7/15/2019 17:08			0	0.991	0.084	0.019	0.107	0.005	0.009	
7/15/2019 17:09			0	0.991	0.084	0.019	0.104	0.005	0.009	
7/15/2019 17:10	12.5	106.3	0	0.991	0.085	0.019	0.095	0.005	0.01	
7/15/2019 17:10										42.43255;-76.49821
7/15/2019 17:11			0	0.991	0.085	0.02	0.103	0.005	0.01	
7/15/2019 17:12			0	0.991	0.087	0.02	0.109	0.006	0.009	
7/15/2019 17:13			0	0.991	0.089	0.02	0.109	0.006	0.009	
7/15/2019 17:14			0	0.991	0.09	0.02	0.109	0.006	0.009	
7/15/2019 17:15	12.5	99.2	0	0.991	0.092	0.021	0.105	0.006	0.009	
7/15/2019 17:15										42.43256;-76.4982
7/15/2019 17:16			0	0.991	0.094	0.021	0.11	0.006	0.009	
7/15/2019 17:17			0	0.991	0.096	0.021	0.084	0.006	0.009	
7/15/2019 17:18			0	0.991	0.097	0.021	0.118	0.006	0.009	
7/15/2019 17:19			0	0.991	0.099	0.021	0.11	0.006	0.01	
7/15/2019 17:20	12.5	102.2	0	0.991	0.101	0.022	0.111	0.006	0.009	
7/15/2019 17:20										42.43259;-76.49825
7/15/2019 17:21			0	0.991	0.103	0.022	0.126	0.006	0.01	
7/15/2019 17:22			0	0.991	0.105	0.022	0.103	0.006	0.009	
7/15/2019 17:23			0	0.991	0.107	0.022	0.123	0.006	0.008	
7/15/2019 17:24			0	0.991	0.109	0.023	0.117	0.006	0.008	
7/15/2019 17:25	12.5	101.2	0	0.991	0.111	0.023	0.138	0.006	0.009	
7/15/2019 17:25										42.43243;-76.49813
7/15/2019 17:26			0	0.991	0.113	0.023	0.13	0.006	0.012	
7/15/2019 17:27			0	0.991	0.115	0.023	0.126	0.006	0.01	
7/15/2019 17:28			0	0.991	0.116	0.024	0.116	0.006	0.009	
7/15/2019 17:29			0	0.991	0.117	0.024	0.131	0.006	0.008	
7/15/2019 17:30	12.5	118.4	0	0.991	0.118	0.024	0.125	0.006	0.008	
7/15/2019 17:30										42.43244;-76.49816
7/15/2019 17:31			0	0.991	0.119	0.024	0.12	0.006	0.008	
7/15/2019 17:32			0	0.991	0.12	0.025	0.133	0.006	0.009	
7/15/2019 17:33			0	0.991	0.121	0.025	0.127	0.006	0.008	
7/15/2019 17:34			0	0.991	0.122	0.025	0.13	0.006	0.01	
7/15/2019 17:35	12.4	101.2	0	0.991	0.124	0.026	0.137	0.006	0.009	
7/15/2019 17:35										42.43249;-76.49817
7/15/2019 17:36			0	0.991	0.125	0.026	0.135	0.006	0.008	
7/15/2019 17:37			0	0.991	0.126	0.026	0.131	0.006	0.011	
7/15/2019 17:38			0	0.991	0.127	0.026	0.144	0.006	0.009	
7/15/2019 17:39			0	0.991	0.129	0.027	0.134	0.006	0.008	
7/15/2019 17:40	12.5	100.2	0	0.991	0.129	0.027	0.144	0.006	0.008	
7/15/2019 17:40										42.43253;-76.49822
7/15/2019 17:41			0	0.991	0.13	0.027	0.147	0.006	0.009	
7/15/2019 17:42			0	0.991	0.131	0.028	0.137	0.006	0.009	
7/15/2019 17:43			0	0.991	0.132	0.028	0.136	0.006	0.009	
7/15/2019 17:44			0	0.991	0.134	0.028	0.15	0.006	0.009	
7/15/2019 17:45	12.4	104.3	0	0.991	0.136	0.028	0.152	0.006	0.009	
7/15/2019 17:45										42.43255;-76.49819
7/15/2019 17:46			0	0.991	0.138	0.029	0.158	0.006	0.009	
7/15/2019 17:47			0	0.991	0.14	0.029	0.148	0.006	0.008	
7/15/2019 17:48			0	0.991	0.142	0.029	0.144	0.006	0.008	
7/15/2019 17:49			0	0.991	0.143	0.03	0.149	0.006	0.008	
7/15/2019 17:50	12.4	103.2	0	0.991	0.143	0.03	0.137	0.006	0.016	
7/15/2019 17:50										42.43258;-76.49823
7/15/2019 17:51			0	0.991	0.143	0.03	0.149	0.006	0.009	
7/15/2019 17:52			0	0.991	0.144	0.031	0.142	0.006	0.009	
7/15/2019 17:53			0	0.991	0.144	0.031	0.145	0.006	0.009	
7/15/2019 17:54			0	0.991	0.144	0.031	0.14	0.006	0.009	
7/15/2019 17:55	12.4	101.2	0	0.991	0.146	0.032	0.157	0.006	0.012	
7/15/2019 17:55										42.43258;-76.49825
7/15/2019 17:56			0	0.991	0.147	0.032	0.154	0.006	0.008	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/15/2019 17:57			0	0.991	0.147	0.032	0.16	0.006	0.022	
7/15/2019 17:58			0	0.991	0.149	0.033	0.153	0.006	0.026	
7/15/2019 17:59			0	0.991	0.149	0.033	0.148	0.006	0.011	
7/15/2019 18:00	12.4	108.3	0	0.991	0.149	0.033	0.153	0.006	0.009	
7/15/2019 18:00										42.43257;-76.49825
7/15/2019 18:01			0	0.991	0.149	0.033	0.148	0.007	0.009	
7/15/2019 18:02			0	0.991	0.148	0.034	0.148	0.007	0.012	
7/15/2019 18:03			0	0.991	0.148	0.034	0.148	0.007	0.013	
7/15/2019 18:04			0	0.991	0.149	0.034	0.141	0.007	0.009	
7/15/2019 18:05	12.4	131.6	0	0.991	0.149	0.035	0.149	0.007	0.016	
7/15/2019 18:05										42.43257;-76.49831
7/15/2019 18:06			0	0.991	0.149	0.035	0.149	0.007	0.018	
7/15/2019 18:07			0	0.991	0.15	0.035	0.139	0.007	0.014	
7/15/2019 18:08			0	0.991	0.149	0.036	0.132	0.007	0.018	
7/15/2019 18:09			0	0.991	0.149	0.036	0.14	0.007	0.017	
7/15/2019 18:10	12.4	101.2	0	0.991	0.147	0.036	0.135	0.007	0.009	
7/15/2019 18:10										42.43248;-76.49829
7/15/2019 18:11			0	0.991	0.145	0.036	0.124	0.007	0.015	
7/15/2019 18:12			0	0.991	0.144	0.037	0.136	0.007	0.009	
7/15/2019 18:13			0	0.991	0.142	0.037	0.132	0.007	0.009	
7/15/2019 18:14			0	0.991	0.14	0.037	0.131	0.007	0.009	
7/15/2019 18:15	12.4	112.4	0	0.991	0.139	0.038	0.139	0.007	0.008	
7/15/2019 18:15										42.4325;-76.4983
7/15/2019 18:16			0	0.991	0.139	0.038	0.136	0.007	0.009	
7/15/2019 18:17			0	0.991	0.138	0.038	0.135	0.007	0.009	
7/15/2019 18:18			0	0.991	0.137	0.038	0.146	0.007	0.009	
7/15/2019 18:19			0	0.991	0.136	0.039	0.131	0.007	0.009	
7/15/2019 18:20	12.4	111.3	0	0.991	0.135	0.039	0.123	0.007	0.01	
7/15/2019 18:20										42.43246;-76.49828
7/15/2019 18:21			0	0.991	0.133	0.039	0.131	0.007	0.008	
7/15/2019 18:22			0	0.991	0.132	0.039	0.128	0.007	0.008	
7/15/2019 18:23			0	0.991	0.132	0.04	0.135	0.007	0.008	
7/15/2019 18:24			0	0.991	0.131	0.04	0.13	0.007	0.01	
7/15/2019 18:25	12.4	110.3	0	0.991	0.132	0.04	0.133	0.007	0.01	
7/15/2019 18:25										42.43248;-76.49828
7/15/2019 18:26			0	0.991	0.132	0.041	0.129	0.007	0.011	
7/15/2019 18:27			0	0.991	0.132	0.041	0.133	0.007	0.012	
7/15/2019 18:28			0	0.991	0.132	0.041	0.117	0.007	0.009	
7/15/2019 18:29			0	0.991	0.131	0.041	0.125	0.007	0.009	
7/15/2019 18:30	12.4	100.2	0	0.991	0.131	0.042	0.131	0.007	0.01	
7/15/2019 18:30										42.43243;-76.49828
7/15/2019 18:31			0	0.991	0.13	0.042	0.134	0.007	0.008	
7/15/2019 18:32			0	0.991	0.13	0.042	0.136	0.007	0.008	
7/15/2019 18:33			0	0.991	0.129	0.042	0.131	0.007	0.008	
7/15/2019 18:34			0	0.991	0.129	0.043	0.141	0.007	0.008	
7/15/2019 18:35	12.4	142.7	0	0.991	0.13	0.043	0.14	0.007	0.008	
7/15/2019 18:35										42.43247;-76.49826
7/15/2019 18:36			0	0.991	0.131	0.043	0.162	0.007	0.009	
7/15/2019 18:37			0	0.991	0.132	0.044	0.136	0.007	0.017	
7/15/2019 18:38			0	0.991	0.133	0.044	0.141	0.007	0.009	
7/15/2019 18:39			0	0.991	0.132	0.044	0.123	0.007	0.008	
7/15/2019 18:40	12.4	103.2	0	0.991	0.132	0.044	0.129	0.007	0.008	
7/15/2019 18:40										42.43249;-76.49827
7/15/2019 18:41			0	0.991	0.131	0.045	0.123	0.007	0.008	
7/15/2019 18:42			0	0.991	0.131	0.045	0.13	0.007	0.009	
7/15/2019 18:43			0	0.991	0.131	0.045	0.135	0.007	0.008	
7/15/2019 18:44			0	0.991	0.131	0.045	0.132	0.007	0.008	
7/15/2019 18:45	12.4	104.3	0	0.991	0.13	0.046	0.123	0.007	0.008	
7/15/2019 18:45										42.43252;-76.4983
7/15/2019 18:46			0	0.991	0.13	0.046	0.115	0.007	0.008	
7/15/2019 18:47			0	0.991	0.129	0.046	0.126	0.007	0.008	
7/15/2019 18:48			0	0.991	0.129	0.046	0.132	0.008	0.008	
7/15/2019 18:49			0	0.991	0.129	0.047	0.122	0.008	0.008	
7/15/2019 18:50	12.4	102.2	0	0.991	0.127	0.047	0.127	0.008	0.008	
7/15/2019 18:50										42.43247;-76.49828
7/15/2019 18:51			0	0.991	0.126	0.047	0.126	0.008	0.008	
7/15/2019 18:52			0	0.991	0.125	0.047	0.121	0.008	0.008	
7/15/2019 18:53			0	0.991	0.124	0.048	0.126	0.008	0.008	
7/15/2019 18:54			0	0.991	0.123	0.048	0.126	0.008	0.01	
7/15/2019 18:55	12.4	102.2	0	0.991	0.123	0.048	0.123	0.008	0.01	
7/15/2019 18:55										42.43249;-76.49831
7/15/2019 18:56			0	0.991	0.123	0.049	0.122	0.008	0.013	
7/15/2019 18:57			0	0.991	0.123	0.049	0.113	0.008	0.01	
7/15/2019 18:58			0	0.991	0.122	0.049	0.119	0.008	0.008	
7/15/2019 18:59			0	0.991	0.121	0.049	0.121	0.008	0.008	
7/15/2019 19:00	12.4	101.2	0	0.991	0.12	0.049	0.12	0.008	0.007	
7/15/2019 19:00										42.43243;-76.49829
7/15/2019 19:01			0	0.991	0.12	0.05	0.133	0.008	0.008	
7/15/2019 19:02			0	0.991	0.121	0.05	0.122	0.008	0.008	
7/15/2019 19:03			0	0.991	0.12	0.05	0.119	0.008	0.008	
7/15/2019 19:04			0	0.991	0.119	0.05	0.11	0.008	0.008	
7/15/2019 19:05	12.4	101.2	0	0.991	0.119	0.051	0.124	0.008	0.008	
7/15/2019 19:05										42.43247;-76.49828
7/15/2019 19:06			0	0.991	0.119	0.051	0.114	0.008	0.008	
7/15/2019 19:07			0	0.991	0.119	0.051	0.118	0.008	0.008	
7/15/2019 19:08			0	0.991	0.119	0.051	0.114	0.008	0.009	
7/15/2019 19:09			0	0.991	0.118	0.052	0.113	0.008	0.008	
7/15/2019 19:10	12.4	110.3	0	0.991	0.118	0.052	0.123	0.008	0.008	
7/15/2019 19:10										42.43242;-76.49829
7/15/2019 19:11			0	0.991	0.118	0.052	0.121	0.008	0.008	
7/15/2019 19:12			0	0.991	0.118	0.052	0.135	0.008	0.008	
7/15/2019 19:13			0	0.991	0.119	0.053	0.123	0.008	0.008	
7/15/2019 19:14			0	0.991	0.12	0.053	0.128	0.008	0.008	
7/15/2019 19:15	12.4	101.2	0	0.991	0.121	0.053	0.121	0.008	0.008	42.43243;-76.4983
7/15/2019 19:16			0	0.991	0.121	0.054	0.11	0.008	0.008	
7/15/2019 19:17			0	0.991	0.121	0.054	0.116	0.008	0.01	
7/15/2019 19:18			0	0.991	0.12	0.054	0.115	0.008	0.009	
7/15/2019 19:19			0	0.991	0.12	0.054	0.119	0.008	0.009	
7/15/2019 19:20	12.4	103.2	0	0.991	0.12	0.054	0.117	0.008	0.01	42.43252;-76.49829
7/15/2019 19:21			0	0.991	0.119	0.055	0.093	0.008	0.01	
7/15/2019 19:22			0	0.991	0.118	0.055	0.112	0.008	0.008	
7/15/2019 19:23			0	0.991	0.117	0.055	0.092	0.008	0.008	
7/15/2019 19:24			0	0.991	0.115	0.055	0.098	0.008	0.009	
7/15/2019 19:25	12.4	101.2	0	0.991	0.114	0.056	0.111	0.008	0.011	42.43255;-76.49828
7/15/2019 19:26			0	0.991	0.113	0.056	0.106	0.008	0.009	
7/15/2019 19:27			0	0.991	0.112	0.056	0.107	0.008	0.009	
7/15/2019 19:28			0	0.991	0.111	0.056	0.104	0.008	0.01	
7/15/2019 19:29			0	0.991	0.109	0.056	0.093	0.008	0.009	
7/15/2019 19:30	12.4	101.2	0	0.991	0.107	0.057	0.1	0.008	0.008	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/15/2019 19:31			0	0.991	0.106	0.057	0.101	0.008	0.009	
7/15/2019 19:32			0	0.991	0.105	0.057	0.106	0.008	0.008	
7/15/2019 19:33			0	0.991	0.104	0.057	0.106	0.008	0.008	
7/15/2019 19:34			0	0.991	0.103	0.057	0.095	0.008	0.009	
7/15/2019 19:35	12.4	92.1	0	0.991	0.102	0.058	0.102	0.008	0.009	
7/15/2019 19:36			0	0.991	0.102	0.058	0.098	0.008	0.008	
7/15/2019 19:37			0	0.991	0.102	0.058	0.082	0.008	0.008	
7/15/2019 19:38			0	0.991	0.101	0.058	0.102	0.008	0.008	
7/15/2019 19:39			0	0.991	0.102	0.059	0.093	0.008	0.008	
7/15/2019 19:40	12.4	90.1	0	0.991	0.101	0.059	0.095	0.008	0.008	
7/15/2019 19:41			0	0.991	0.101	0.059	0.084	0.008	0.008	
7/15/2019 19:42			0	0.991	0.099	0.059	0.103	0.008	0.008	
7/15/2019 19:43			0	0.991	0.099	0.059	0.103	0.008	0.008	
7/15/2019 19:44			0	0.991	0.099	0.06	0.091	0.009	0.009	
7/15/2019 19:45	12.4	89.1	0	0.991	0.099	0.06	0.102	0.009	0.008	
7/15/2019 19:46			0	0.991	0.099	0.06	0.098	0.009	0.008	
7/15/2019 19:47			0	0.991	0.099	0.06	0.11	0.009	0.008	
7/15/2019 19:48			0	0.991	0.1	0.06	0.112	0.009	0.008	
7/15/2019 19:49			0	0.991	0.101	0.061	0.107	0.009	0.013	
7/15/2019 19:50	12.3	90.1	0	0.991	0.101	0.061	0.109	0.009	0.009	
7/15/2019 19:51			0	0.991	0.101	0.061	0.109	0.009	0.01	
7/15/2019 19:52			0	0.991	0.102	0.061	0.106	0.009	0.01	
7/15/2019 19:53			0	0.991	0.103	0.062	0.111	0.009	0.008	
7/15/2019 19:54			0	0.991	0.103	0.062	0.108	0.009	0.009	
7/15/2019 19:55	12.3	90.1	0	0.991	0.104	0.062	0.106	0.009	0.018	
7/15/2019 19:55										42.433194199999996;-76.4976157
7/15/2019 19:56			0	0.991	0.104	0.062	0.1	0.009	0.015	
7/15/2019 19:57			0	0.991	0.105	0.062	0.096	0.009	0.016	
7/15/2019 19:58			0	0.991	0.105	0.063	0.094	0.009	0.01	
7/15/2019 19:59			0	0.991	0.105	0.063	0.086	0.009	0.008	
7/15/2019 20:00	12.3	89.1	0	0.991	0.104	0.063	0.085	0.009	0.008	
7/15/2019 20:01			0	0.991	0.103	0.063	0.104	0.009	0.008	
7/15/2019 20:02			0	0.991	0.102	0.063	0.099	0.009	0.008	
7/15/2019 20:03			0	0.991	0.101	0.064	0.108	0.009	0.008	
7/15/2019 20:04			0	0.991	0.101	0.064	0.104	0.009	0.008	
7/15/2019 20:05	12.3	90.1	0	0.991	0.1	0.064	0.101	0.009	0.008	
7/15/2019 20:06			0	0.991	0.1	0.064	0.099	0.009	0.008	
7/15/2019 20:07			0	0.991	0.1	0.064	0.104	0.009	0.008	
7/15/2019 20:08			0	0.991	0.099	0.065	0.101	0.009	0.008	
7/15/2019 20:09			0	0.991	0.099	0.065	0.11	0.009	0.008	
7/15/2019 20:10	12.3	90.1	0	0.991	0.099	0.065	0.106	0.009	0.008	
7/15/2019 20:11			0	0.991	0.099	0.065	0.097	0.009	0.008	
7/15/2019 20:12			0	0.991	0.099	0.066	0.101	0.009	0.008	
7/15/2019 20:13			0	0.991	0.099	0.066	0.105	0.009	0.009	
7/15/2019 20:14			0	0.991	0.1	0.066	0.102	0.009	0.009	
7/15/2019 20:15	12.3	91.1	0	0.991	0.101	0.066	0.108	0.009	0.009	
7/15/2019 20:16			0	0.991	0.102	0.066	0.104	0.009	0.012	
7/15/2019 20:17			0	0.991	0.102	0.067	0.099	0.009	0.009	
7/15/2019 20:18			0	0.991	0.102	0.067	0.099	0.009	0.009	
7/15/2019 20:19			0	0.991	0.101	0.067	0.094	0.009	0.009	
7/15/2019 20:20	12.3	90.1	0	0.991	0.1	0.067	0.087	0.009	0.008	
7/15/2019 20:21			0	0.991	0.099	0.067	0.085	0.009	0.009	
7/15/2019 20:22			0	0.991	0.098	0.068	0.085	0.009	0.009	
7/15/2019 20:23			0	0.991	0.097	0.068	0.072	0.009	0.009	
7/15/2019 20:24			0	0.991	0.096	0.068	0.074	0.009	0.008	
7/15/2019 20:25	12.3	88.1	0	0.991	0.093	0.068	0.07	0.009	0.008	
7/15/2019 20:26			0	0.991	0.091	0.068	0.079	0.009	0.008	
7/15/2019 20:27			0	0.991	0.09	0.068	0.096	0.009	0.009	
7/15/2019 20:28			0	0.991	0.09	0.069	0.09	0.009	0.008	
7/15/2019 20:29			0	0.991	0.089	0.069	0.093	0.009	0.008	
7/15/2019 20:30	12.3	89.1	0	0.991	0.088	0.069	0.1	0.009	0.009	
7/15/2019 20:31			0	0.991	0.088	0.069	0.091	0.009	0.009	
7/15/2019 20:32			0	0.991	0.087	0.069	0.099	0.009	0.008	
7/15/2019 20:33			0	0.991	0.087	0.07	0.095	0.009	0.008	
7/15/2019 20:34			0	0.991	0.087	0.07	0.094	0.009	0.009	
7/15/2019 20:35	12.3	91.1	0	0.991	0.087	0.07	0.105	0.009	0.009	
7/15/2019 20:36			0	0.991	0.088	0.07	0.108	0.009	0.009	
7/15/2019 20:37			0	0.991	0.09	0.07	0.101	0.01	0.009	
7/15/2019 20:38			0	0.991	0.091	0.071	0.106	0.01	0.009	
7/15/2019 20:39			0	0.991	0.093	0.071	0.099	0.01	0.009	
7/15/2019 20:40	12.3	91.1	0	0.991	0.095	0.071	0.106	0.01	0.009	
7/15/2019 20:41			0	0.991	0.097	0.071	0.101	0.01	0.008	
7/15/2019 20:42			0	0.991	0.098	0.071	0.107	0.01	0.008	
7/15/2019 20:43			0	0.991	0.099	0.072	0.111	0.01	0.018	
7/15/2019 20:44			0	0.991	0.1	0.072	0.109	0.01	0.024	
7/15/2019 20:45	12.3	91.1	0	0.991	0.101	0.072	0.107	0.01	0.012	
7/15/2019 20:46			0	0.991	0.101	0.072	0.103	0.01	0.034	
7/15/2019 20:47			0	0.991	0.102	0.073	0.097	0.01	0.011	
7/15/2019 20:48			0	0.991	0.102	0.073	0.092	0.01	0.008	
7/15/2019 20:49			0	0.991	0.102	0.073	0.104	0.01	0.009	
7/15/2019 20:50	12.3	88.1	0	0.991	0.102	0.073	0.084	0.01	0.009	
7/15/2019 20:51			0	0.991	0.102	0.073	0.099	0.01	0.008	
7/15/2019 20:52			0	0.991	0.101	0.074	0.103	0.01	0.009	
7/15/2019 20:53			0	0.991	0.101	0.074	0.093	0.01	0.009	
7/15/2019 20:54			0	0.991	0.1	0.074	0.1	0.01	0.009	
7/15/2019 20:55	12.3	91.1	0	0.991	0.1	0.074	0.106	0.01	0.01	
7/15/2019 20:56			0	0.991	0.1	0.074	0.097	0.01	0.011	
7/15/2019 20:57			0	0.991	0.099	0.075	0.086	0.01	0.011	
7/15/2019 20:58			0	0.991	0.098	0.075	0.091	0.01	0.011	
7/15/2019 20:59			0	0.991	0.097	0.075	0.087	0.01	0.015	
7/15/2019 21:00	12.3	90.1	0	0.991	0.096	0.075	0.089	0.01	0.009	
7/15/2019 21:01			0	0.991	0.094	0.075	0.084	0.01	0.009	
7/15/2019 21:02			0	0.991	0.093	0.075	0.085	0.01	0.009	
7/15/2019 21:03			0	0.991	0.092	0.076	0.09	0.01	0.008	
7/15/2019 21:04			0	0.991	0.092	0.076	0.079	0.01	0.009	
7/15/2019 21:05	12.3	104.3	0	0.991	0.091	0.076	0.091	0.01	0.009	
7/15/2019 21:05										42.433187800000006;-76.497587
7/15/2019 21:06			0	0.991	0.09	0.076	0.083	0.01	0.009	
7/15/2019 21:07			0	0.991	0.089	0.076	0.077	0.01	0.009	
7/15/2019 21:08			0	0.991	0.088	0.076	0.077	0.01	0.009	
7/15/2019 21:09			0	0.991	0.087	0.077	0.072	0.01	0.008	
7/15/2019 21:10	12.3	91.1	0	0.991	0.085	0.077	0.076	0.01	0.009	
7/15/2019 21:11			0	0.991	0.083	0.077	0.072	0.01	0.01	
7/15/2019 21:12			0	0.991	0.082	0.077	0.069	0.01	0.009	
7/15/2019 21:13			0	0.991	0.081	0.077	0.072	0.01	0.009	
7/15/2019 21:14			0	0.991	0.08	0.077	0.072	0.01	0.01	
7/15/2019 21:15	12.3	91.1	0	0.991	0.079	0.078	0.076	0.01	0.011	
7/15/2019 21:16			0	0.991	0.078	0.078	0.068	0.01	0.011	
7/15/2019 21:17			0	0.991	0.077	0.078	0.061	0.01	0.009	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/15/2019 21:18			0	0.991	0.075	0.078	0.058	0.01	0.009	
7/15/2019 21:19			0	0.991	0.073	0.078	0.064	0.01	0.009	
7/15/2019 21:20	12.3	91.1	0	0.991	0.072	0.078	0.073	0.01	0.01	
7/15/2019 21:21			0	0.991	0.071	0.078	0.062	0.01	0.013	
7/15/2019 21:22			0	0.991	0.07	0.079	0.065	0.01	0.009	
7/15/2019 21:23			0	0.991	0.068	0.079	0.057	0.011	0.008	
7/15/2019 21:24			0	0.991	0.067	0.079	0.066	0.011	0.009	
7/15/2019 21:25	12.3	91.1	0	0.991	0.066	0.079	0.059	0.011	0.009	
7/15/2019 21:26			0	0.991	0.065	0.079	0.055	0.011	0.009	
7/15/2019 21:27			0	0.991	0.064	0.079	0.051	0.011	0.009	
7/15/2019 21:28			0	0.991	0.063	0.079	0.057	0.011	0.009	
7/15/2019 21:29			0	0.991	0.061	0.079	0.048	0.011	0.009	
7/15/2019 21:30	12.3	90.1	0	0.991	0.06	0.079	0.038	0.011	0.009	
7/15/2019 21:31			0	0.991	0.057	0.08	0.044	0.011	0.009	
7/15/2019 21:32			0	0.991	0.056	0.08	0.045	0.011	0.009	
7/15/2019 21:33									0.015	
7/15/2019 21:35	12.4	85								
7/15/2019 21:40	12.4	86								
7/15/2019 21:45	12.4	87								
7/16/2019 11:26	12.8	116.4								
7/16/2019 11:26										42.4331751;-76.4975565
7/16/2019 11:27			0	0.002	0	0	0			
7/16/2019 11:28			0	0.002	0	0	0			
7/16/2019 11:29			0	0.002	0	0	0			
7/16/2019 11:30	12.7	102.2	0	0.002	0	0	0	0	0.025	
7/16/2019 11:30										42.43255;-76.49821
7/16/2019 11:31			0	0.002	0	0	0	0	0.018	
7/16/2019 11:32			0	0.002	0	0	0	0	0.017	
7/16/2019 11:33			0	0.002	0	0	0	0	0.017	
7/16/2019 11:34			0	0.002	0	0	0	0	0.018	
7/16/2019 11:35	12.7	100.2	0	0.002	0	0	0	0	0.017	
7/16/2019 11:35										42.43254;-76.49826
7/16/2019 11:36			0	0.002	0	0	0	0	0.017	
7/16/2019 11:37			0	0.002	0	0	0	0	0.017	
7/16/2019 11:38			0	0.002	0	0	0	0	0.017	
7/16/2019 11:39			0	0.002	0	0	0	0	0.017	
7/16/2019 11:40	12.7	101.2	0	0.002	0	0	0	0	0.017	
7/16/2019 11:40										42.43257;-76.49827
7/16/2019 11:41			0	0.002	0	0	0	0	0.017	
7/16/2019 11:42			0	0.002	0	0	0	0	0.017	
7/16/2019 11:43			0	0.002	0	0	0	0	0.017	
7/16/2019 11:44			0	0.002	0	0	0	0	0.017	
7/16/2019 11:45	12.6	133.6	0	0.002	0	0	0	0.001	0.017	
7/16/2019 11:45										42.43256;-76.49825
7/16/2019 11:46			0	0.002	0	0	0	0.001	0.017	
7/16/2019 11:47			0	0.002	0	0	0	0.001	0.018	
7/16/2019 11:48			0	0.002	0	0	0	0.001	0.017	
7/16/2019 11:49			0	0.002	0	0	0	0.001	0.017	
7/16/2019 11:50	12.7	124.5	0	0.002	0	0	0	0.001	0.017	
7/16/2019 11:50										42.43257;-76.49818
7/16/2019 11:51			0	0.002	0	0	0	0.001	0.017	
7/16/2019 11:52			0	0.002	0	0	0	0.001	0.017	
7/16/2019 11:53			0	0.002	0	0	0	0.001	0.017	
7/16/2019 11:54			0	0.002	0	0	0	0.001	0.017	
7/16/2019 11:55	12.7	98.2	0	0.002	0	0	0	0.001	0.018	
7/16/2019 11:55										42.43259;-76.49823
7/16/2019 11:56			0	0.002	0	0	0	0.001	0.021	
7/16/2019 11:57			0	0.002	0	0	0	0.001	0.018	
7/16/2019 11:58			0	0.002	0	0	0	0.001	0.017	
7/16/2019 11:59			0	0.002	0	0	0	0.001	0.017	
7/16/2019 12:00	12.6	101.2	0	0.002	0	0	0	0.001	0.017	
7/16/2019 12:00										42.43259;-76.49825
7/16/2019 12:01			0	0.002	0	0	0	0.001	0.017	
7/16/2019 12:02			0	0.002	0	0	0	0.001	0.017	
7/16/2019 12:03			0	0.002	0	0	0	0.001	0.018	
7/16/2019 12:04			0	0.002	0	0	0	0.001	0.017	
7/16/2019 12:05	12.7	100.2	0	0.002	0	0	0	0.001	0.017	
7/16/2019 12:05										42.43255;-76.49827
7/16/2019 12:06			0	0.002	0	0	0	0.001	0.017	
7/16/2019 12:07			0	0.002	0	0	0	0.001	0.017	
7/16/2019 12:08			0	0.002	0	0	0	0.001	0.017	
7/16/2019 12:09			0	0.002	0	0	0	0.001	0.017	
7/16/2019 12:10	12.6	112.4	0	0.002	0	0	0	0.001	0.017	
7/16/2019 12:10										42.43257;-76.49825
7/16/2019 12:11			0	0.002	0	0	0	0.001	0.017	
7/16/2019 12:12			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:13			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:14			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:15	12.6	105.3	0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:15										42.43257;-76.49822
7/16/2019 12:16			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:17			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:18			0	0.002	0	0	0	0.002	0.019	
7/16/2019 12:19			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:20	12.6	146.8	0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:20										42.43253;-76.49829
7/16/2019 12:21			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:22			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:23			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:24			0	0.002	0	0	0	0.002	0.018	
7/16/2019 12:25	12.6	105.3	0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:25										42.43255;-76.49825
7/16/2019 12:26			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:27			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:28			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:29			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:30	12.6	138.7	0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:30										42.43258;-76.49821
7/16/2019 12:31			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:32			0	0.002	0	0	0	0.002	0.018	
7/16/2019 12:33			0	0.002	0	0	0	0.002	0.018	
7/16/2019 12:34			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:35	12.6	137.7	0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:35										42.43255;-76.49823
7/16/2019 12:36			0	0.002	0	0	0	0.002	0.017	
7/16/2019 12:37			0	0.002	0	0	0	0.002	0.018	
7/16/2019 12:38			0	0.002	0	0	0	0.002	0.018	
7/16/2019 12:39			0	0.002	0	0	0	0.003	0.017	
7/16/2019 12:40	12.6	101.2	0	0.002	0	0	0	0.003	0.017	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/16/2019 12:40										42.43253;-76.4982
7/16/2019 12:41			0	0.002	0	0	0	0.003	0.017	
7/16/2019 12:42			0	0.002	0	0	0	0.003	0.018	
7/16/2019 12:43			0	0.002	0	0	0	0.003	0.018	
7/16/2019 12:44			0	0.002	0	0	0	0.003	0.017	
7/16/2019 12:45	12.6	101.2	0	0.002	0	0	0	0.003	0.017	
7/16/2019 12:45										42.43251;-76.49824
7/16/2019 12:46			0	0.002	0	0	0	0.003	0.018	
7/16/2019 12:47			0	0.002	0	0	0	0.003	0.018	
7/16/2019 12:48			0	0.002	0	0	0	0.003	0.018	
7/16/2019 12:49			0	0.002	0	0	0	0.003	0.019	
7/16/2019 12:50	12.6	100.2	0	0.002	0	0	0	0.003	0.018	
7/16/2019 12:50										42.43253;-76.49824
7/16/2019 12:51			0	0.002	0	0	0	0.003	0.018	
7/16/2019 12:52			0	0.002	0	0	0	0.003	0.018	
7/16/2019 12:53			0	0.002	0	0	0	0.003	0.018	
7/16/2019 12:54			0	0.002	0	0	0	0.003	0.018	
7/16/2019 12:55	12.6	98.2	0	0.002	0	0	0	0.003	0.019	
7/16/2019 12:55										42.43251;-76.49825
7/16/2019 12:56			0	0.002	0	0	0	0.003	0.019	
7/16/2019 12:57			0	0.002	0	0	0	0.003	0.018	
7/16/2019 12:58			0	0.002	0	0	0	0.003	0.019	
7/16/2019 12:59			0	0.002	0	0	0	0.003	0.019	
7/16/2019 13:00	12.6	98.2	0	0.002	0	0	0	0.003	0.019	
7/16/2019 13:00										42.43248;-76.49825
7/16/2019 13:01			0	0.002	0	0	0	0.003	0.019	
7/16/2019 13:02			0	0.002	0	0	0	0.003	0.019	
7/16/2019 13:03			0	0.002	0	0	0	0.003	0.02	
7/16/2019 13:04			0	0.002	0	0	0	0.003	0.019	
7/16/2019 13:05	12.6	98.2	0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:05										42.4325;-76.49821
7/16/2019 13:06			0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:07			0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:08			0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:09			0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:10	12.6	100.2	0	0.002	0	0	0	0.004	0.02	
7/16/2019 13:10										42.43249;-76.49825
7/16/2019 13:11			0	0.002	0	0	0	0.004	0.02	
7/16/2019 13:12			0	0.002	0	0	0	0.004	0.021	
7/16/2019 13:13			0	0.002	0	0	0	0.004	0.02	
7/16/2019 13:14			0	0.002	0	0	0	0.004	0.02	
7/16/2019 13:15	12.6	108.3	0	0.002	0	0	0	0.004	0.02	
7/16/2019 13:15										42.43248;-76.49824
7/16/2019 13:16			0	0.002	0	0	0	0.004	0.021	
7/16/2019 13:17			0	0.002	0	0	0	0.004	0.02	
7/16/2019 13:18			0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:19			0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:20	12.6	97.2	0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:20										42.43246;-76.49829
7/16/2019 13:21			0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:22			0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:23			0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:24			0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:25	12.6	100.2	0	0.002	0	0	0	0.004	0.02	
7/16/2019 13:25										42.43247;-76.49821
7/16/2019 13:26			0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:27			0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:28			0	0.002	0	0	0	0.004	0.019	
7/16/2019 13:29			0	0.002	0	0	0	0.004	0.018	
7/16/2019 13:30	12.6	117.4	0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:30										42.43251;-76.49821
7/16/2019 13:31			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:32			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:33			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:34			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:35	12.6	99.2	0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:35										42.43253;-76.49824
7/16/2019 13:36			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:37			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:38			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:39			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:40	12.6	112.4	0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:40										42.43255;-76.49828
7/16/2019 13:41			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:42			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:43			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:44			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:45	12.6	99.2	0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:45										42.43257;-76.49829
7/16/2019 13:46			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:47			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:48			0	0.002	0	0	0	0.005	0.019	
7/16/2019 13:49			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:50	12.5	99.2	0	0.002	0	0	0	0.005	0.019	
7/16/2019 13:50										42.43256;-76.49829
7/16/2019 13:51			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:52			0	0.002	0	0	0	0.005	0.019	
7/16/2019 13:53			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:54			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:55	12.5	99.2	0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:55										42.43255;-76.49828
7/16/2019 13:56			0	0.002	0	0	0	0.005	0.018	
7/16/2019 13:57			0	0.002	0	0	0	0.006	0.019	
7/16/2019 13:58			0	0.002	0	0	0	0.006	0.019	
7/16/2019 13:59			0	0.002	0	0	0	0.006	0.019	
7/16/2019 14:00	12.5	110.3	0	0.002	0	0	0	0.006	0.019	
7/16/2019 14:00										42.43255;-76.49825
7/16/2019 14:01			0	0.002	0	0	0	0.006	0.019	
7/16/2019 14:02			0	0.002	0	0	0	0.006	0.018	
7/16/2019 14:03			0	0.002	0	0	0	0.006	0.019	
7/16/2019 14:04			0	0.002	0	0	0	0.006	0.019	
7/16/2019 14:05	12.5	102.2	0	0.002	0	0	0	0.006	0.019	
7/16/2019 14:05										42.43256;-76.49825
7/16/2019 14:06			0	0.002	0	0	0	0.006	0.019	
7/16/2019 14:07			0	0.002	0	0	0	0.006	0.019	
7/16/2019 14:08			0	0.002	0	0	0	0.006	0.02	
7/16/2019 14:09			0	0.002	0	0	0	0.006	0.02	
7/16/2019 14:10	12.5	106.3	0	0.002	0	0	0	0.006	0.021	
7/16/2019 14:10										42.43258;-76.49826

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/16/2019 14:11			0	0.002	0	0	0	0.006	0.02	
7/16/2019 14:12			0	0.002	0	0	0	0.006	0.02	
7/16/2019 14:13			0	0.002	0	0	0	0.006	0.02	
7/16/2019 14:14			0	0.002	0	0	0	0.006	0.02	
7/16/2019 14:15	12.5	98.2	0	0.004	0	0	0.003	0.006	0.02	
7/16/2019 14:15										42.43258;-76.49828
7/16/2019 14:16			0	0.008	0	0	0.002	0.006	0.019	
7/16/2019 14:17			0	0.008	0	0	0	0.006	0.02	
7/16/2019 14:18			0	0.008	0	0	0	0.006	0.019	
7/16/2019 14:19			0	0.008	0	0	0	0.006	0.02	
7/16/2019 14:20	12.5	100.2	0	0.013	0	0	0	0.006	0.02	
7/16/2019 14:20										42.43259;-76.49828
7/16/2019 14:21			0	0.013	0	0	0	0.007	0.02	
7/16/2019 14:22			0	0.013	0	0	0	0.007	0.02	
7/16/2019 14:23			0	0.013	0	0	0	0.007	0.02	
7/16/2019 14:24			0	0.013	0	0	0	0.007	0.02	
7/16/2019 14:25	12.5	119.4	0	0.013	0	0	0	0.007	0.02	
7/16/2019 14:25										42.4326;-76.49835
7/16/2019 14:26			0	0.013	0	0	0	0.007	0.021	
7/16/2019 14:27			0	0.013	0	0	0	0.007	0.02	
7/16/2019 14:28			0	0.013	0	0	0	0.007	0.02	
7/16/2019 14:29			0	0.024	0	0	0	0.007	0.021	
7/16/2019 14:30	12.5	117.4	0	0.024	0	0	0	0.007	0.02	
7/16/2019 14:30										42.43259;-76.49829
7/16/2019 14:31			0	0.033	0	0	0	0.007	0.02	
7/16/2019 14:32			0	0.033	0	0	0.001	0.007	0.02	
7/16/2019 14:33			0	0.033	0	0	0.004	0.007	0.02	
7/16/2019 14:34			0	0.033	0	0	0.003	0.007	0.02	
7/16/2019 14:35	12.5	108.3	0	0.033	0	0	0	0.007	0.02	
7/16/2019 14:35										42.43259;-76.4983
7/16/2019 14:36			0	0.033	0	0	0	0.007	0.02	
7/16/2019 14:37			0	0.033	0	0	0	0.007	0.021	
7/16/2019 14:38			0	0.033	0	0	0	0.007	0.021	
7/16/2019 14:39			0	0.033	0	0	0	0.007	0.02	
7/16/2019 14:40	12.5	98.2	0	0.033	0	0	0	0.007	0.021	
7/16/2019 14:40										42.4326;-76.49825
7/16/2019 14:41			0	0.033	0	0	0	0.007	0.02	
7/16/2019 14:42			0	0.033	0	0	0	0.007	0.02	
7/16/2019 14:43			0	0.033	0	0	0.005	0.007	0.02	
7/16/2019 14:44			0	0.033	0.001	0	0.021	0.007	0.021	
7/16/2019 14:45	12.5	101.2	0	0.033	0.001	0	0.001	0.008	0.021	
7/16/2019 14:45										42.43262;-76.49828
7/16/2019 14:46			0	0.033	0.001	0	0.002	0.008	0.02	
7/16/2019 14:47			0	0.033	0.001	0	0	0.008	0.02	
7/16/2019 14:48			0	0.033	0.001	0	0	0.008	0.02	
7/16/2019 14:49			0	0.033	0.001	0	0.007	0.008	0.021	
7/16/2019 14:50	12.5	99.2	0	0.033	0.001	0	0	0.008	0.021	
7/16/2019 14:50										42.43263;-76.49831
7/16/2019 14:51			0	0.033	0.001	0	0.001	0.008	0.021	
7/16/2019 14:52			0	0.033	0.001	0	0.002	0.008	0.021	
7/16/2019 14:53			0	0.033	0.001	0	0.009	0.008	0.021	
7/16/2019 14:54			0	0.033	0.002	0	0.02	0.008	0.021	
7/16/2019 14:55	12.5	102.2	0	0.033	0.002	0	0.002	0.008	0.021	
7/16/2019 14:55										42.43262;-76.49829
7/16/2019 14:56			0	0.033	0.002	0	0.008	0.008	0.02	
7/16/2019 14:57			0	0.033	0.002	0	0	0.008	0.021	
7/16/2019 14:58			0	0.033	0.002	0	0	0.008	0.021	
7/16/2019 14:59			0	0.033	0.002	0	0.012	0.008	0.021	
7/16/2019 15:00	12.5	99.2	0	0.033	0.002	0	0	0.008	0.021	
7/16/2019 15:00										42.43264;-76.4983
7/16/2019 15:01			0	0.033	0.002	0	0.001	0.008	0.021	
7/16/2019 15:02			0	0.033	0.002	0	0.001	0.008	0.021	
7/16/2019 15:03			0	0.033	0.002	0	0.002	0.008	0.021	
7/16/2019 15:04			0	0.033	0.002	0	0	0.008	0.021	
7/16/2019 15:05	12.5	119.4	0	0.033	0.001	0	0	0.008	0.021	
7/16/2019 15:05										42.43264;-76.49831
7/16/2019 15:06			0	0.033	0.001	0	0	0.008	0.021	
7/16/2019 15:07			0	0.033	0.001	0	0	0.008	0.021	
7/16/2019 15:08			0	0.033	0.001	0	0	0.009	0.022	
7/16/2019 15:09			0	0.033	0.001	0	0	0.009	0.021	
7/16/2019 15:10	12.5	139.7	0	0.033	0	0	0	0.009	0.021	
7/16/2019 15:10										42.43266;-76.49831
7/16/2019 15:11			0	0.033	0	0	0	0.009	0.021	
7/16/2019 15:12			0	0.033	0	0	0	0.009	0.022	
7/16/2019 15:13			0	0.033	0	0	0	0.009	0.021	
7/16/2019 15:14			0	0.033	0	0	0	0.009	0.021	
7/16/2019 15:15	12.5	99.2	0	0.033	0	0	0	0.009	0.021	
7/16/2019 15:15										42.43263;-76.4983
7/16/2019 15:16			0	0.033	0	0	0	0.009	0.022	
7/16/2019 15:17			0	0.033	0	0	0.004	0.009	0.021	
7/16/2019 15:18			0	0.033	0	0	0	0.009	0.021	
7/16/2019 15:19			0	0.033	0	0	0.002	0.009	0.021	
7/16/2019 15:20	12.5	100.2	0	0.033	0	0	0.001	0.009	0.022	
7/16/2019 15:20										42.43263;-76.49831
7/16/2019 15:21			0	0.033	0	0	0	0.009	0.021	
7/16/2019 15:22			0	0.033	0	0	0	0.009	0.021	
7/16/2019 15:23			0	0.033	0	0	0	0.009	0.023	
7/16/2019 15:24			0	0.033	0	0	0	0.009	0.023	
7/16/2019 15:25	12.5	98.2	0	0.033	0	0	0.002	0.009	0.022	
7/16/2019 15:25										42.43259;-76.49828
7/16/2019 15:26			0	0.033	0	0	0	0.009	0.021	
7/16/2019 15:27			0	0.033	0	0	0	0.009	0.021	
7/16/2019 15:28			0	0.033	0	0	0	0.009	0.021	
7/16/2019 15:29			0	0.033	0	0	0	0.009	0.021	
7/16/2019 15:30	12.5	102.2	0	0.033	0.001	0	0	0.01	0.021	
7/16/2019 15:30										42.43259;-76.49832
7/16/2019 15:31			0	0.033	0.001	0	0	0.01	0.021	
7/16/2019 15:32			0	0.033	0.001	0	0.004	0.01	0.021	
7/16/2019 15:33			0	0.033	0.001	0	0	0.01	0.021	
7/16/2019 15:34			0	0.033	0.001	0	0.016	0.01	0.021	
7/16/2019 15:35	12.5	106.3	0	0.033	0.001	0	0	0.01	0.021	
7/16/2019 15:35										42.43254;-76.49828
7/16/2019 15:36			0	0.033	0.001	0	0.001	0.01	0.021	
7/16/2019 15:37			0	0.033	0.001	0	0	0.01	0.021	
7/16/2019 15:38			0	0.033	0.001	0	0	0.01	0.021	
7/16/2019 15:39			0	0.033	0.001	0	0	0.01	0.021	
7/16/2019 15:40	12.4	106.3	0	0.033	0.001	0	0.016	0.01	0.02	
7/16/2019 15:40										42.43255;-76.49825
7/16/2019 15:41			0	0.033	0.002	0	0.006	0.01	0.02	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/16/2019 15:42			0	0.033	0.002	0	0.002	0.01	0.021	
7/16/2019 15:43			0	0.033	0.002	0	0	0.01	0.021	
7/16/2019 15:44			0	0.042	0.003	0	0.019	0.01	0.022	
7/16/2019 15:45	12.4	99.2	0	0.042	0.004	0	0.022	0.01	0.022	
7/16/2019 15:45										42.43256;-76.49825
7/16/2019 15:46			0	0.042	0.005	0	0.003	0.01	0.02	
7/16/2019 15:47			0	0.042	0.005	0	0.021	0.01	0.021	
7/16/2019 15:48			0	0.042	0.007	0	0.026	0.01	0.021	
7/16/2019 15:49			0	0.042	0.008	0	0.012	0.01	0.021	
7/16/2019 15:50	12.4	106.3	0	0.042	0.008	0	0.012	0.01	0.021	
7/16/2019 15:50										42.43254;-76.49825
7/16/2019 15:51			0	0.042	0.009	0	0.011	0.01	0.02	
7/16/2019 15:52			0	0.042	0.01	0	0.007	0.01	0.022	
7/16/2019 15:53			0	0.042	0.01	0	0.027	0.011	0.021	
7/16/2019 15:54			0	0.042	0.011	0	0.027	0.011	0.021	
7/16/2019 15:55	12.4	103.2	0	0.042	0.012	0	0.024	0.011	0.021	
7/16/2019 15:55										42.43254;-76.49823
7/16/2019 15:56			0	0.042	0.013	0	0.017	0.011	0.021	
7/16/2019 15:57			0	0.043	0.014	0	0.029	0.011	0.02	
7/16/2019 15:58			0	0.044	0.016	0	0.008	0.011	0.022	
7/16/2019 15:59			0	0.044	0.016	0	0.022	0.011	0.021	
7/16/2019 16:00	12.4	103.2	0	0.044	0.015	0	0.015	0.011	0.02	
7/16/2019 16:00										42.43254;-76.49822
7/16/2019 16:01			0	0.053	0.016	0	0.016	0.011	0.02	
7/16/2019 16:02			0	0.053	0.017	0	0.037	0.011	0.021	
7/16/2019 16:03			0	0.053	0.017	0	0.039	0.011	0.021	
7/16/2019 16:04			0	0.053	0.018	0.001	0.042	0.011	0.021	
7/16/2019 16:05	12.4	100.2	0	0.055	0.02	0.001	0.019	0.011	0.025	
7/16/2019 16:05										42.43251;-76.49821
7/16/2019 16:06			0	0.055	0.021	0.001	0.026	0.011	0.021	
7/16/2019 16:07			0	0.055	0.022	0.001	0.024	0.011	0.02	
7/16/2019 16:08			0	0.055	0.023	0.001	0.031	0.011	0.02	
7/16/2019 16:09			0	0.055	0.024	0.001	0.028	0.011	0.024	
7/16/2019 16:10	12.4	101.2	0	0.055	0.024	0.001	0.025	0.011	0.022	
7/16/2019 16:10										42.43251;-76.49824
7/16/2019 16:11			0	0.055	0.025	0.001	0.038	0.011	0.023	
7/16/2019 16:12			0	0.055	0.025	0.001	0.003	0.011	0.024	
7/16/2019 16:13			0	0.055	0.024	0.001	0.012	0.011	0.021	
7/16/2019 16:14			0	0.055	0.024	0.001	0	0.011	0.022	
7/16/2019 16:15	12.4	104.3	0	0.055	0.023	0.001	0.012	0.012	0.021	
7/16/2019 16:15										42.43251;-76.49824
7/16/2019 16:16			0	0.055	0.023	0.001	0.008	0.012	0.021	
7/16/2019 16:17			0	0.055	0.022	0.001	0.013	0.012	0.021	
7/16/2019 16:18			0	0.069	0.022	0.001	0.031	0.012	0.022	
7/16/2019 16:19			0	0.069	0.021	0.001	0.019	0.012	0.021	
7/16/2019 16:20	12.4	105.3	0	0.069	0.021	0.001	0.036	0.012	0.021	
7/16/2019 16:20										42.43251;-76.49825
7/16/2019 16:21			0	0.069	0.021	0.001	0.029	0.012	0.021	
7/16/2019 16:22			0	0.069	0.02	0.001	0.021	0.012	0.02	
7/16/2019 16:23			0	0.069	0.02	0.001	0.044	0.012	0.02	
7/16/2019 16:24			0	0.069	0.021	0.001	0.032	0.012	0.021	
7/16/2019 16:25	12.4	100.2	0	0.069	0.021	0.002	0.021	0.012	0.021	
7/16/2019 16:25										42.43246;-76.49829
7/16/2019 16:26			0	0.069	0.021	0.002	0.032	0.012	0.02	
7/16/2019 16:27			0	0.069	0.021	0.002	0.037	0.012	0.021	
7/16/2019 16:28			0	0.069	0.023	0.002	0.038	0.012	0.02	
7/16/2019 16:29			0	0.069	0.024	0.002	0.036	0.012	0.021	
7/16/2019 16:30	12.4	109.3	0	0.069	0.025	0.002	0.03	0.012	0.021	
7/16/2019 16:30										42.43256;-76.49819
7/16/2019 16:31			0	0.069	0.026	0.002	0.024	0.012	0.02	
7/16/2019 16:32			0	0.069	0.028	0.002	0.028	0.012	0.021	
7/16/2019 16:33			0	0.069	0.028	0.002	0.052	0.012	0.021	
7/16/2019 16:34			0	0.069	0.03	0.002	0.05	0.012	0.021	
7/16/2019 16:35	12.4	99.2	0	0.069	0.031	0.002	0.063	0.012	0.02	
7/16/2019 16:35										42.43258;-76.49821
7/16/2019 16:36			0	0.084	0.033	0.002	0.029	0.012	0.02	
7/16/2019 16:37			0	0.097	0.035	0.002	0.063	0.012	0.02	
7/16/2019 16:38			0	0.097	0.038	0.003	0.047	0.012	0.021	
7/16/2019 16:39			0	0.097	0.039	0.003	0.06	0.013	0.02	
7/16/2019 16:40	12.4	109.3	0	0.097	0.04	0.003	0.062	0.013	0.02	
7/16/2019 16:40										42.43253;-76.49805
7/16/2019 16:41			0	0.097	0.043	0.003	0.057	0.013	0.084	
7/16/2019 16:42			0	0.097	0.045	0.003	0.075	0.013	0.024	
7/16/2019 16:43			0	0.097	0.048	0.003	0.075	0.013	0.022	
7/16/2019 16:44			0	0.097	0.051	0.003	0.083	0.013	0.055	
7/16/2019 16:45	12.4	102.2	0	0.097	0.054	0.004	0.063	0.013	0.024	
7/16/2019 16:45										42.43258;-76.49823
7/16/2019 16:46			0	0.105	0.057	0.004	0.085	0.013	0.021	
7/16/2019 16:47			0	0.105	0.061	0.004	0.067	0.013	0.021	
7/16/2019 16:48			0	0.105	0.063	0.004	0.066	0.013	0.02	
7/16/2019 16:49			0	0.105	0.064	0.004	0.055	0.013	0.02	
7/16/2019 16:50	12.4	100.2	0	0.112	0.066	0.004	0.073	0.013	0.021	
7/16/2019 16:50										42.43258;-76.49822
7/16/2019 16:51			0	0.112	0.067	0.004	0.051	0.013	0.019	
7/16/2019 16:52			0	0.112	0.067	0.005	0.066	0.013	0.019	
7/16/2019 16:53			0	0.112	0.068	0.005	0.057	0.013	0.021	
7/16/2019 16:54			0	0.112	0.069	0.005	0.066	0.013	0.021	
7/16/2019 16:55	12.4	105.3	0	0.112	0.07	0.005	0.064	0.013	0.021	
7/16/2019 16:55										42.43257;-76.49821
7/16/2019 16:56			0	0.112	0.07	0.005	0.049	0.013	0.021	
7/16/2019 16:57			0	0.112	0.069	0.005	0.045	0.014	0.02	
7/16/2019 16:58			0	0.112	0.068	0.005	0.07	0.014	0.02	
7/16/2019 16:59			0	0.112	0.067	0.006	0.073	0.014	0.02	
7/16/2019 17:00	12.4	101.2	0	0.112	0.066	0.006	0.074	0.014	0.02	
7/16/2019 17:00										42.43257;-76.49822
7/16/2019 17:01			0	0.112	0.065	0.006	0.045	0.014	0.021	
7/16/2019 17:02			0	0.112	0.063	0.006	0.048	0.014	0.021	
7/16/2019 17:03			0	0.112	0.061	0.006	0.04	0.014	0.02	
7/16/2019 17:04			0	0.112	0.06	0.006	0.061	0.014	0.02	
7/16/2019 17:05	12.4	102.2	0	0.456	0.06	0.006	0.057	0.014	0.02	
7/16/2019 17:05										42.43257;-76.49825
7/16/2019 17:06			0	0.456	0.059	0.006	0.057	0.014	0.02	
7/16/2019 17:07			0	0.456	0.059	0.006	0.065	0.014	0.021	
7/16/2019 17:08			0	0.456	0.059	0.007	0.053	0.014	0.021	
7/16/2019 17:09			0	0.456	0.058	0.007	0.044	0.014	0.02	
7/16/2019 17:10	12.4	101.2	0	0.456	0.057	0.007	0.077	0.014	0.02	
7/16/2019 17:10										42.43256;-76.49825
7/16/2019 17:11			0	0.456	0.057	0.007	0.068	0.014	0.02	
7/16/2019 17:12			0	0.456	0.058	0.007	0.061	0.014	0.021	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/16/2019 17:13			0	0.456	0.058	0.007	0.066	0.014	0.02	
7/16/2019 17:14			0	0.456	0.059	0.007	0.088	0.014	0.02	
7/16/2019 17:15	12.4	115.4	0	0.456	0.06	0.008	0.072	0.014	0.02	
7/16/2019 17:15										42.43257;-76.49821
7/16/2019 17:16			0	0.456	0.061	0.008	0.074	0.014	0.02	
7/16/2019 17:17			0	0.456	0.062	0.008	0.066	0.014	0.039	
7/16/2019 17:18			0	0.456	0.064	0.008	0.085	0.014	0.027	
7/16/2019 17:19			0	0.456	0.067	0.008	0.094	0.015	0.02	
7/16/2019 17:20	12.4	103.2	0	0.456	0.068	0.008	0.1	0.015	0.02	
7/16/2019 17:20										42.43256;-76.49823
7/16/2019 17:21			0	0.456	0.071	0.009	0.099	0.015	0.02	
7/16/2019 17:22			0	0.456	0.074	0.009	0.097	0.015	0.023	
7/16/2019 17:23			0	0.456	0.077	0.009	0.102	0.015	0.021	
7/16/2019 17:24			0	0.456	0.08	0.009	0.098	0.015	0.021	
7/16/2019 17:25	12.4	101.2	0	0.456	0.083	0.009	0.105	0.015	0.021	
7/16/2019 17:25										42.43251;-76.4981
7/16/2019 17:26			0	0.456	0.086	0.01	0.104	0.015	0.021	
7/16/2019 17:27			0	0.456	0.088	0.01	0.107	0.015	0.02	
7/16/2019 17:28			0	0.456	0.092	0.01	0.112	0.015	0.021	
7/16/2019 17:29			0	0.456	0.094	0.01	0.114	0.015	0.022	
7/16/2019 17:30	12.3	101.2	0	0.456	0.096	0.011	0.114	0.015	0.02	
7/16/2019 17:30										42.43256;-76.49819
7/16/2019 17:31			0	0.456	0.099	0.011	0.114	0.015	0.02	
7/16/2019 17:32			0	0.456	0.102	0.011	0.114	0.015	0.019	
7/16/2019 17:33			0	0.456	0.104	0.011	0.107	0.015	0.022	
7/16/2019 17:34			0	0.456	0.106	0.012	0.117	0.015	0.02	
7/16/2019 17:35	12.3	102.2	0	0.456	0.109	0.012	0.121	0.015	0.019	
7/16/2019 17:35										42.43257;-76.49821
7/16/2019 17:36			0	0.456	0.11	0.012	0.121	0.015	0.019	
7/16/2019 17:37			0	0.456	0.111	0.012	0.116	0.015	0.018	
7/16/2019 17:38			0	0.456	0.113	0.013	0.127	0.015	0.02	
7/16/2019 17:39			0	0.456	0.115	0.013	0.14	0.015	0.02	
7/16/2019 17:40	12.3	103.2	0	0.456	0.118	0.013	0.127	0.015	0.021	
7/16/2019 17:40										42.43256;-76.49821
7/16/2019 17:41			0	0.456	0.119	0.013	0.141	0.015	0.02	
7/16/2019 17:42			0	0.456	0.121	0.014	0.124	0.015	0.02	
7/16/2019 17:43			0	0.456	0.123	0.014	0.133	0.016	0.019	
7/16/2019 17:44			0	0.456	0.124	0.014	0.142	0.016	0.019	
7/16/2019 17:45	12.3	102.2	0	0.456	0.126	0.014	0.152	0.016	0.02	
7/16/2019 17:45										42.43274;-76.49824
7/16/2019 17:46			0	0.456	0.127	0.015	0.151	0.016	0.02	
7/16/2019 17:47			0	0.456	0.129	0.015	0.138	0.016	0.019	
7/16/2019 17:48			0	0.456	0.131	0.015	0.142	0.016	0.019	
7/16/2019 17:49			0	0.456	0.133	0.016	0.15	0.016	0.019	
7/16/2019 17:50	12.3	102.2	0	0.456	0.134	0.016	0.151	0.016	0.02	
7/16/2019 17:50										42.43265;-76.49827
7/16/2019 17:51			0	0.456	0.136	0.016	0.153	0.016	0.019	
7/16/2019 17:52			0	0.456	0.137	0.017	0.131	0.016	0.019	
7/16/2019 17:53			0	0.456	0.138	0.017	0.151	0.016	0.019	
7/16/2019 17:54			0	0.456	0.139	0.017	0.156	0.016	0.019	
7/16/2019 17:55	12.3	139.7	0	0.456	0.14	0.018	0.152	0.016	0.019	
7/16/2019 17:55										42.43262;-76.49826
7/16/2019 17:56			0	0.456	0.141	0.018	0.159	0.016	0.018	
7/16/2019 17:57			0	0.456	0.142	0.018	0.151	0.016	0.019	
7/16/2019 17:58			0	0.456	0.143	0.018	0.159	0.016	0.019	
7/16/2019 17:59			0	0.456	0.145	0.019	0.163	0.016	0.02	
7/16/2019 18:00	12.3	138.7	0	0.456	0.148	0.019	0.162	0.016	0.02	
7/16/2019 18:00										42.43253;-76.49821
7/16/2019 18:01			0	0.456	0.149	0.019	0.164	0.016	0.02	
7/16/2019 18:02			0	0.456	0.15	0.02	0.167	0.016	0.02	
7/16/2019 18:03			0	0.456	0.151	0.02	0.153	0.016	0.046	
7/16/2019 18:04			0	0.456	0.152	0.02	0.159	0.016	0.032	
7/16/2019 18:05	12.3	129.6	0	0.456	0.153	0.021	0.155	0.016	0.022	
7/16/2019 18:05										42.43254;-76.49825
7/16/2019 18:06			0	0.456	0.153	0.021	0.143	0.017	0.021	
7/16/2019 18:07			0	0.456	0.153	0.021	0.141	0.017	0.02	
7/16/2019 18:08			0	0.456	0.153	0.022	0.136	0.017	0.02	
7/16/2019 18:09			0	0.456	0.151	0.022	0.127	0.017	0.021	
7/16/2019 18:10	12.3	102.2	0	0.456	0.15	0.022	0.124	0.017	0.022	
7/16/2019 18:10										42.4325;-76.49821
7/16/2019 18:11			0	0.456	0.148	0.022	0.121	0.017	0.023	
7/16/2019 18:12			0	0.456	0.146	0.023	0.11	0.017	0.023	
7/16/2019 18:13			0	0.456	0.143	0.023	0.101	0.017	0.021	
7/16/2019 18:14			0	0.456	0.138	0.023	0.084	0.017	0.02	
7/16/2019 18:15	12.3	102.2	0	0.456	0.133	0.023	0.093	0.017	0.019	
7/16/2019 18:15										42.43249;-76.49821
7/16/2019 18:16			0	0.456	0.129	0.023	0.091	0.017	0.02	
7/16/2019 18:17			0	0.456	0.124	0.024	0.1	0.017	0.02	
7/16/2019 18:18			0	0.456	0.12	0.024	0.095	0.017	0.019	
7/16/2019 18:19			0	0.456	0.115	0.024	0.088	0.017	0.02	
7/16/2019 18:20	12.3	106.3	0	0.456	0.111	0.024	0.076	0.017	0.019	
7/16/2019 18:20										42.43253;-76.49825
7/16/2019 18:21			0	0.456	0.106	0.024	0.073	0.017	0.019	
7/16/2019 18:22			0	0.456	0.101	0.025	0.066	0.017	0.019	
7/16/2019 18:23			0	0.456	0.097	0.025	0.076	0.017	0.019	
7/16/2019 18:24			0	0.456	0.093	0.025	0.084	0.017	0.019	
7/16/2019 18:25	12.3	101.2	0	0.456	0.09	0.025	0.054	0.017	0.019	
7/16/2019 18:25										42.43252;-76.49828
7/16/2019 18:26			0	0.456	0.086	0.025	0.066	0.017	0.018	
7/16/2019 18:27			0	0.456	0.082	0.025	0.062	0.017	0.018	
7/16/2019 18:28			0	0.456	0.079	0.025	0.073	0.017	0.019	
7/16/2019 18:29			0	0.456	0.078	0.026	0.066	0.017	0.019	
7/16/2019 18:30	12.3	102.2	0	0.456	0.076	0.026	0.071	0.018	0.018	
7/16/2019 18:30										42.4325;-76.49827
7/16/2019 18:31			0	0.456	0.075	0.026	0.067	0.018	0.018	
7/16/2019 18:32			0	0.456	0.074	0.026	0.069	0.018	0.018	
7/16/2019 18:33			0	0.456	0.072	0.026	0.085	0.018	0.019	
7/16/2019 18:34			0	0.456	0.071	0.026	0.065	0.018	0.018	
7/16/2019 18:35	12.3	108.3	0	0.456	0.07	0.026	0.076	0.018	0.018	
7/16/2019 18:35										42.43251;-76.49826
7/16/2019 18:36			0	0.456	0.071	0.027	0.074	0.018	0.019	
7/16/2019 18:37			0	0.456	0.071	0.027	0.076	0.018	0.019	
7/16/2019 18:38			0	0.456	0.072	0.027	0.088	0.018	0.019	
7/16/2019 18:39			0	0.456	0.073	0.027	0.09	0.018	0.019	
7/16/2019 18:40	12.3	144.7	0	0.456	0.073	0.027	0.067	0.018	0.019	
7/16/2019 18:40										42.43255;-76.49823
7/16/2019 18:41			0	0.456	0.074	0.027	0.079	0.018	0.019	
7/16/2019 18:42			0	0.456	0.076	0.028	0.076	0.018	0.018	
7/16/2019 18:43			0	0.456	0.076	0.028	0.087	0.018	0.019	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/16/2019 18:44			0	0.456	0.077	0.028	0.082	0.018	0.019	
7/16/2019 18:45	12.3	104.3	0	0.456	0.078	0.028	0.083	0.018	0.018	
7/16/2019 18:45										42.43251;-76.49825
7/16/2019 18:46			0	0.456	0.078	0.028	0.08	0.018	0.019	
7/16/2019 18:47			0	0.456	0.079	0.028	0.087	0.018	0.019	
7/16/2019 18:48			0	0.456	0.079	0.029	0.075	0.018	0.019	
7/16/2019 18:49			0	0.456	0.079	0.029	0.072	0.018	0.019	
7/16/2019 18:50	12.3	105.3	0	0.456	0.078	0.029	0.062	0.018	0.019	
7/16/2019 18:50										42.43251;-76.49829
7/16/2019 18:51			0	0.456	0.077	0.029	0.058	0.018	0.02	
7/16/2019 18:52			0	0.456	0.075	0.029	0.049	0.018	0.023	
7/16/2019 18:53			0	0.456	0.073	0.029	0.042	0.018	0.022	
7/16/2019 18:54			0	0.456	0.07	0.029	0.043	0.018	0.02	
7/16/2019 18:55	12.3	106.3	0	0.456	0.068	0.029	0.044	0.018	0.018	
7/16/2019 18:55										42.4325;-76.49831
7/16/2019 18:56			0	0.456	0.065	0.03	0.038	0.019	0.017	
7/16/2019 18:57			0	0.456	0.062	0.03	0.024	0.019	0.016	
7/16/2019 18:58			0	0.456	0.059	0.03	0.036	0.019	0.015	
7/16/2019 18:59			0	0.456	0.056	0.03	0.031	0.019	0.015	
7/16/2019 19:00	12.3	106.3	0	0.456	0.053	0.03	0.043	0.019	0.012	
7/16/2019 19:00										42.43253;-76.49831
7/16/2019 19:01			0	0.456	0.05	0.03	0.045	0.019	0.012	
7/16/2019 19:02			0	0.456	0.047	0.03	0.04	0.019	0.012	
7/16/2019 19:03			0	0.456	0.045	0.03	0.037	0.019	0.01	
7/16/2019 19:04			0	0.456	0.043	0.03	0.048	0.019	0.01	
7/16/2019 19:05	12.3	119.4	0	0.456	0.041	0.03	0.038	0.019	0.01	
7/16/2019 19:05										42.43252;-76.49831
7/16/2019 19:06			0	0.456	0.04	0.03	0.049	0.019	0.01	
7/16/2019 19:07			0	0.456	0.039	0.03	0.045	0.019	0.009	
7/16/2019 19:08			0	0.456	0.039	0.031	0.048	0.019	0.01	
7/16/2019 19:09			0	0.456	0.039	0.031	0.049	0.019	0.009	
7/16/2019 19:10	12.3	129.6	0	0.456	0.039	0.031	0.05	0.019	0.01	
7/16/2019 19:10										42.43253;-76.49828
7/16/2019 19:11			0	0.456	0.039	0.031	0.056	0.019	0.009	
7/16/2019 19:12			0	0.456	0.041	0.031	0.061	0.019	0.008	
7/16/2019 19:13			0	0.456	0.042	0.031	0.061	0.019	0.007	
7/16/2019 19:14			0	0.456	0.044	0.031	0.053	0.019	0.008	
7/16/2019 19:15	12.3	101.2	0	0.456	0.045	0.031	0.053	0.019	0.007	
7/16/2019 19:15										42.43254;-76.49828
7/16/2019 19:16			0	0.456	0.046	0.031	0.056	0.019	0.007	
7/16/2019 19:17			0	0.456	0.048	0.031	0.058	0.019	0.007	
7/16/2019 19:18			0	0.456	0.049	0.032	0.056	0.019	0.008	
7/16/2019 19:19			0	0.456	0.05	0.032	0.048	0.019	0.008	
7/16/2019 19:20	12.2	113.4	0	0.456	0.05	0.032	0.057	0.019	0.008	
7/16/2019 19:20										42.43258;-76.49829
7/16/2019 19:21			0	0.456	0.051	0.032	0.051	0.019	0.008	
7/16/2019 19:22			0	0.456	0.052	0.032	0.055	0.019	0.008	
7/16/2019 19:23			0	0.456	0.052	0.032	0.054	0.019	0.008	
7/16/2019 19:24			0	0.456	0.053	0.032	0.056	0.019	0.008	
7/16/2019 19:25	12.2	102.2	0	0.456	0.054	0.032	0.054	0.019	0.008	
7/16/2019 19:25										42.43261;-76.49828
7/16/2019 19:26			0	0.456	0.054	0.032	0.051	0.019	0.009	
7/16/2019 19:27			0	0.456	0.054	0.033	0.054	0.019	0.009	
7/16/2019 19:28			0	0.456	0.054	0.033	0.059	0.019	0.008	
7/16/2019 19:29			0	0.456	0.053	0.033	0.057	0.019	0.009	
7/16/2019 19:30	12.2	138.7	0	0.456	0.053	0.033	0.059	0.019	0.008	
7/16/2019 19:30										42.43259;-76.49832
7/16/2019 19:31			0	0.456	0.054	0.033	0.059	0.019	0.008	
7/16/2019 19:32			0	0.456	0.054	0.033	0.059	0.019	0.009	
7/16/2019 19:33			0	0.456	0.054	0.033	0.064	0.019	0.009	
7/16/2019 19:34			0	0.456	0.055	0.033	0.076	0.019	0.008	
7/16/2019 19:35	12.2	104.3	0	0.456	0.056	0.034	0.066	0.019	0.008	
7/16/2019 19:35										42.43256;-76.49827
7/16/2019 19:36			0	0.456	0.057	0.034	0.059	0.019	0.008	
7/16/2019 19:37			0	0.456	0.057	0.034	0.074	0.019	0.009	
7/16/2019 19:38			0	0.456	0.058	0.034	0.057	0.019	0.009	
7/16/2019 19:39			0	0.456	0.059	0.034	0.06	0.019	0.008	
7/16/2019 19:40	12.2	112.4	0	0.456	0.059	0.034	0.058	0.019	0.009	42.43252;-76.49824
7/16/2019 19:41			0	0.456	0.059	0.034	0.06	0.019	0.011	
7/16/2019 19:42			0	0.456	0.06	0.034	0.065	0.019	0.009	
7/16/2019 19:43			0	0.456	0.061	0.035	0.068	0.019	0.009	
7/16/2019 19:44			0	0.456	0.062	0.035	0.064	0.019	0.009	
7/16/2019 19:45	12.2	140.7	0	0.456	0.062	0.035	0.069	0.019	0.009	
7/16/2019 19:45										42.43253;-76.49825
7/16/2019 19:46			0	0.456	0.063	0.035	0.066	0.019	0.009	
7/16/2019 19:47			0	0.456	0.063	0.035	0.053	0.019	0.009	
7/16/2019 19:48			0	0.456	0.063	0.035	0.054	0.019	0.01	
7/16/2019 19:49								0.019	0.015	
7/16/2019 19:50	12.2	104.3						0.019	0.013	
7/16/2019 19:50										42.43256;-76.49822
7/16/2019 19:51								0.019	0.01	
7/16/2019 19:52								0.019	0.011	
7/16/2019 19:53								0.019	0.01	
7/16/2019 19:54								0.019	0.011	
7/16/2019 19:55	12.2	109.3						0.019	0.013	
7/16/2019 19:55										42.43256;-76.49825
7/16/2019 19:56								0.019	0.013	
7/16/2019 19:57								0.019	0.014	
7/16/2019 19:58								0.019	0.013	
7/16/2019 19:59								0.019	0.02	
7/16/2019 20:00	12.1	104.3	0	0.374	0	0.001	0.227	0.019	0.015	
7/16/2019 20:00										42.43255;-76.49823
7/16/2019 20:01			0	0.374	0	0.001	0.227	0.019	0.014	
7/16/2019 20:02			0	0.374	0	0.002	0.208	0.019	0.014	
7/16/2019 20:03			0	0.374	0	0.002	0.215	0.019	0.017	
7/16/2019 20:04			0	0.374	0	0.003	0.198	0.019	0.014	
7/16/2019 20:05	12.1	103.2	0	0.374	0	0.003	0.193	0.019	0.014	
7/16/2019 20:05										42.43252;-76.49825
7/16/2019 20:06			0	0.374	0	0.004	0.175	0.019	0.014	
7/16/2019 20:07			0	0.374	0	0.004	0.163	0.019	0.015	
7/16/2019 20:08			0	0.374	0	0.004	0.156	0.019	0.015	
7/16/2019 20:09			0	0.374	0	0.005	0.148	0.019	0.014	
7/16/2019 20:10	12.1	103.2	0	0.374	0	0.005	0.136	0.019	0.015	
7/16/2019 20:10										42.4326;-76.49833
7/16/2019 20:11			0	0.374	0	0.005	0.117	0.019	0.014	
7/16/2019 20:12			0	0.374	0.188	0.005	0.12	0.019	0.016	
7/16/2019 20:13			0	0.374	0.183	0.006	0.119	0.019	0.015	
7/16/2019 20:14			0	0.374	0.172	0.006	0.105	0.019	0.015	
7/16/2019 20:15	12.1	122.5	0	0.374	0.165	0.006	0.103	0.019	0.015	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/16/2019 20:15										42.43261;-76.49832
7/16/2019 20:16			0	0.374	0.157	0.006	0.091	0.019	0.015	
7/16/2019 20:17			0	0.374	0.148	0.006	0.071	0.019	0.015	
7/16/2019 20:18			0	0.374	0.14	0.007	0.076	0.019	0.015	
7/16/2019 20:19			0	0.374	0.131	0.007	0.071	0.019	0.014	
7/16/2019 20:20	12.1	105.3	0	0.374	0.122	0.007	0.063	0.019	0.015	
7/16/2019 20:20										42.43258;-76.49823
7/16/2019 20:21			0	0.374	0.113	0.007	0.064	0.019	0.015	
7/16/2019 20:22			0	0.374	0.106	0.007	0.054	0.019	0.015	
7/16/2019 20:23			0	0.374	0.099	0.007	0.055	0.019	0.015	
7/16/2019 20:24			0	0.374	0.091	0.007	0.039	0.019	0.015	
7/16/2019 20:25	12.1	102.2	0	0.374	0.084	0.008	0.035	0.019	0.015	
7/16/2019 20:25										42.4326;-76.49821
7/16/2019 20:26			0	0.374	0.078	0.008	0.027	0.019	0.015	
7/16/2019 20:27			0	0.374	0.072	0.008	0.025	0.019	0.015	
7/16/2019 20:28			0	0.374	0.065	0.008	0.033	0.019	0.016	
7/16/2019 20:29			0	0.374	0.06	0.008	0.021	0.019	0.016	
7/16/2019 20:30	12.1	102.2	0	0.374	0.054	0.008	0.027	0.019	0.016	
7/16/2019 20:30										42.43259;-76.49821
7/16/2019 20:31			0	0.374	0.05	0.008	0.02	0.019	0.015	
7/16/2019 20:32			0	0.374	0.045	0.008	0.013	0.019	0.016	
7/16/2019 20:33			0	0.374	0.041	0.008	0.012	0.019	0.015	
7/16/2019 20:34			0	0.374	0.037	0.008	0	0.019	0.016	
7/16/2019 20:35	12.1	112.4	0	0.374	0.033	0.008	0.018	0.019	0.015	
7/16/2019 20:35										42.4326;-76.49825
7/16/2019 20:36			0	0.374	0.03	0.008	0.007	0.019	0.015	
7/16/2019 20:37			0	0.374	0.027	0.008	0.008	0.019	0.015	
7/16/2019 20:38			0	0.374	0.023	0.008	0.003	0.019	0.015	
7/16/2019 20:39			0	0.374	0.02	0.008	0	0.019	0.014	
7/16/2019 20:40	12.1	103.2	0	0.374	0.018	0.008	0	0.019	0.015	
7/16/2019 20:40										42.43256;-76.49819
7/16/2019 20:41			0	0.374	0.016	0.008	0	0.019	0.015	
7/16/2019 20:42			0	0.374	0.013	0.008	0	0.019	0.015	
7/16/2019 20:43			0	0.374	0.012	0.008	0	0.019	0.015	
7/16/2019 20:44			0	0.374	0.009	0.008	0	0.019	0.015	
7/16/2019 20:45	12.1	103.2	0	0.374	0.008	0.008	0	0.019	0.014	
7/16/2019 20:45										42.43256;-76.49822
7/16/2019 20:46			0	0.374	0.006	0.008	0	0.019	0.014	
7/16/2019 20:47			0	0.374	0.004	0.008	0	0.019	0.038	
7/16/2019 20:48			0	0.374	0.003	0.008	0	0.019	0.031	
7/16/2019 20:49			0	0.374	0.002	0.008	0	0.019	0.015	
7/16/2019 20:50	12.1	103.2	0	0.374	0.002	0.008	0	0.019	0.014	
7/16/2019 20:50										42.43249;-76.49815
7/16/2019 20:51			0	0.374	0.001	0.008	0	0.019	0.014	
7/16/2019 20:52			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 20:53			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 20:54			0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 20:55	12.1	112.4	0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 20:55										42.43255;-76.49821
7/16/2019 20:56			0	0.374	0	0.008	0	0.019	0.013	
7/16/2019 20:57			0	0.374	0	0.008	0	0.019	0.013	
7/16/2019 20:58			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 20:59			0	0.374	0	0.008	0	0.019	0.013	
7/16/2019 21:00	12.1	117.4	0	0.374	0	0.008	0	0.019	0.013	
7/16/2019 21:00										42.43258;-76.49821
7/16/2019 21:01			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:02			0	0.374	0	0.008	0	0.019	0.013	
7/16/2019 21:03			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:04			0	0.374	0	0.008	0	0.019	0.013	
7/16/2019 21:05	12	102.2	0	0.374	0	0.008	0	0.019	0.02	
7/16/2019 21:05										42.43262;-76.49831
7/16/2019 21:06			0	0.374	0	0.008	0	0.019	0.013	
7/16/2019 21:07			0	0.374	0	0.008	0	0.019	0.013	
7/16/2019 21:08			0	0.374	0	0.008	0.003	0.019	0.013	
7/16/2019 21:09			0	0.374	0	0.008	0.004	0.019	0.014	
7/16/2019 21:10	12	113.4	0	0.374	0	0.008	0.003	0.019	0.014	
7/16/2019 21:10										42.43256;-76.49825
7/16/2019 21:11			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:12			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:13			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:14			0	0.374	0	0.008	0.003	0.019	0.014	
7/16/2019 21:15	12	105.3	0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:15										42.43257;-76.49828
7/16/2019 21:16			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:17			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:18			0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:19			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:20	12	111.3	0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:20										42.43259;-76.49826
7/16/2019 21:21			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:22			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:23			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:24			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:25	12	120.5	0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:25										42.43269;-76.49818
7/16/2019 21:26			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:27			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:28			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:29			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:30	12	102.2	0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:30										42.43267;-76.49817
7/16/2019 21:31			0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:32			0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:33			0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:34			0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:35	12	120.5	0	0.374	0	0.008	0	0.019	0.017	
7/16/2019 21:35										42.43243;-76.49828
7/16/2019 21:36			0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:37			0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:38			0	0.374	0	0.008	0	0.019	0.014	
7/16/2019 21:39			0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:40	12	109.3	0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:40										42.43259;-76.49817
7/16/2019 21:41			0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:42			0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:43			0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:44			0	0.374	0	0.008	0	0.019	0.015	
7/16/2019 21:45	12	108.3	0	0.374	0	0.008	0	0.019	0.016	
7/16/2019 21:45										42.43248;-76.49818

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/17/2019 11:40	12.9	115.4								
7/17/2019 11:41			0	0	0	0	0			
7/17/2019 11:42			0	0	0	0	0			
7/17/2019 11:43			0	0	0	0	0			
7/17/2019 11:44			0	0	0	0	0			
7/17/2019 11:45	12.8	96.2	0	0	0	0	0			42.43333;-76.49728
7/17/2019 11:46			0	0	0	0	0			
7/17/2019 11:47			0	0	0	0	0			
7/17/2019 11:48			0	0	0	0	0			
7/17/2019 11:49			0	0	0	0	0			
7/17/2019 11:50	12.8	101.2	0	0	0	0	0			42.43333;-76.49734
7/17/2019 11:51			0	0	0	0	0			
7/17/2019 11:52			0	0	0	0	0			
7/17/2019 11:53			0	0	0	0	0			
7/17/2019 11:54			0	0	0	0	0			
7/17/2019 11:55	12.7	96.2	0	0	0	0	0			42.43335;-76.49734
7/17/2019 11:56			0	0	0	0	0			
7/17/2019 11:57			0	0	0	0	0			
7/17/2019 11:58			0	0	0	0	0			
7/17/2019 11:59			0	0	0	0	0			
7/17/2019 12:00	12.7	100.2	0	0	0	0	0			42.43332;-76.49733
7/17/2019 12:01			0	0	0	0	0			
7/17/2019 12:02			0	0	0	0	0			
7/17/2019 12:03			0	0	0	0	0			
7/17/2019 12:04			0	0	0	0	0			
7/17/2019 12:05	12.7	95.1	0	0	0	0	0			
7/17/2019 12:05										42.43334;-76.49741
7/17/2019 12:06			0	0	0	0	0			
7/17/2019 12:07			0	0	0	0	0			
7/17/2019 12:08			0	0	0	0	0			
7/17/2019 12:09			0	0	0	0	0			
7/17/2019 12:10	12.7	113.4	0	0	0	0	0			
7/17/2019 12:10										42.43334;-76.49729
7/17/2019 12:11			0	0	0	0	0			
7/17/2019 12:12			0	0	0	0	0			
7/17/2019 12:13			0	0	0	0	0			
7/17/2019 12:14			0	0	0	0	0			
7/17/2019 12:15	12.7	94.1	0	0	0	0	0			
7/17/2019 12:15										42.43333;-76.49731
7/17/2019 12:16			0	0	0	0	0			
7/17/2019 12:17			0	0	0	0	0			
7/17/2019 12:18			0	0	0	0	0			
7/17/2019 12:19			0	0	0	0	0			
7/17/2019 12:20	12.7	105.3	0	0	0	0	0			
7/17/2019 12:20										42.43329;-76.49734
7/17/2019 12:21			0	0	0	0	0			
7/17/2019 12:22			0	0	0	0	0			
7/17/2019 12:23			0	0	0	0	0			
7/17/2019 12:24			0	0	0	0	0			
7/17/2019 12:25	12.7	94.1	0	0	0	0	0			42.43329;-76.49739
7/17/2019 12:26			0	0	0	0	0			
7/17/2019 12:27			0	0	0	0	0			
7/17/2019 12:28			0	0	0	0	0			
7/17/2019 12:29			0	0	0	0	0			
7/17/2019 12:30	12.7	94.1	0	0	0	0	0			42.43321;-76.49734
7/17/2019 12:31			0	0	0	0	0			
7/17/2019 12:32			0	0	0	0	0			
7/17/2019 12:33			0	0	0	0	0			
7/17/2019 12:34			0	0	0	0	0			
7/17/2019 12:35	12.7	97.2	0	0	0	0	0			42.43318;-76.49731
7/17/2019 12:36			0	0	0	0	0			
7/17/2019 12:37			0	0	0	0	0			
7/17/2019 12:38			0	0	0	0	0			
7/17/2019 12:39			0	0	0	0	0			
7/17/2019 12:40	12.7	113.4	0	0	0	0	0			42.43317;-76.49731
7/17/2019 12:41			0	0	0	0	0			
7/17/2019 12:42			0	0	0	0	0			
7/17/2019 12:43			0	0	0	0	0			
7/17/2019 12:44			0	0	0	0	0			
7/17/2019 12:45	12.7	95.1	0	0	0	0	0			
7/17/2019 12:45										42.43316;-76.49725
7/17/2019 12:46			0	0	0	0	0			
7/17/2019 12:47			0	0	0	0	0			
7/17/2019 12:48			0	0	0	0	0			
7/17/2019 12:49			0	0	0	0	0			
7/17/2019 12:50	12.7	112.4	0	0	0	0	0			
7/17/2019 12:50										42.43317;-76.49729
7/17/2019 12:51			0	0	0	0	0			
7/17/2019 12:52			0	0	0	0	0			
7/17/2019 12:53			0	0	0	0	0			
7/17/2019 12:54			0	0	0	0	0			
7/17/2019 12:55	12.7	100.2	0	0	0	0	0			
7/17/2019 12:55										42.43316;-76.4973
7/17/2019 12:56			0	0	0	0	0			
7/17/2019 12:57			0	0	0	0	0			
7/17/2019 12:58			0	0	0	0	0			
7/17/2019 12:59			0	0	0	0	0			
7/17/2019 13:00	12.7	95.1	0	0	0	0	0			
7/17/2019 13:00										42.43322;-76.49731
7/17/2019 13:01			0	0	0	0	0			
7/17/2019 13:02			0	0	0	0	0			
7/17/2019 13:03			0	0	0	0	0			
7/17/2019 13:04			0	0	0	0	0			
7/17/2019 13:05	12.7	94.1	0	0	0	0	0			42.43317;-76.49729
7/17/2019 13:06			0	0	0	0	0			
7/17/2019 13:07			0	0	0	0	0			
7/17/2019 13:08			0	0	0	0	0			
7/17/2019 13:09			0	0	0	0	0			
7/17/2019 13:10	12.7	96.2	0	0	0	0	0			42.43316;-76.49732
7/17/2019 13:11			0	0	0	0	0			
7/17/2019 13:12			0	0	0	0	0			
7/17/2019 13:13			0	0	0	0	0			
7/17/2019 13:14			0	0	0	0	0			
7/17/2019 13:15	12.7	96.2	0	0	0	0	0			42.43312;-76.49736
7/17/2019 13:16			0	0	0	0	0			
7/17/2019 13:17			0	0	0	0	0			
7/17/2019 13:18			0	0	0	0	0			
7/17/2019 13:19			0	0	0	0	0			
7/17/2019 13:20	12.7	100.2	0	0	0	0	0			42.43313;-76.49736

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/17/2019 13:21			0	0	0	0	0			
7/17/2019 13:22			0	0	0	0	0			
7/17/2019 13:23			0	0	0	0	0			
7/17/2019 13:24			0	0	0	0	0			
7/17/2019 13:25	12.7	96.2	0	0	0	0	0			
7/17/2019 13:25										42.43317;-76.49732
7/17/2019 13:26			0	0	0	0	0			
7/17/2019 13:27			0	0	0	0	0			
7/17/2019 13:28			0	0	0	0	0			
7/17/2019 13:29			0	0	0	0	0			
7/17/2019 13:30	12.7	101.2	0	0	0	0	0			
7/17/2019 13:30										42.43318;-76.49733
7/17/2019 13:31			0	0	0	0	0			
7/17/2019 13:32			0	0	0	0	0			
7/17/2019 13:33			0	0	0	0	0			
7/17/2019 13:34			0	0	0	0	0			
7/17/2019 13:35	12.6	103.2	0	0	0	0	0			
7/17/2019 13:35										42.4332;-76.49733
7/17/2019 13:36			0	0	0	0	0			
7/17/2019 13:37			0	0	0	0	0			
7/17/2019 13:38			0	0	0	0	0			
7/17/2019 13:39			0	0	0	0	0			
7/17/2019 13:40	12.7	121.5	0	0	0	0	0			42.43321;-76.49731
7/17/2019 13:41			0	0	0	0	0			
7/17/2019 13:42			0	0	0	0	0			
7/17/2019 13:43			0	0	0	0	0			
7/17/2019 13:44			0	0	0	0	0			
7/17/2019 13:45	12.6	108.3	0	0	0	0	0			42.43327;-76.49734
7/17/2019 13:46			0	0	0	0	0			
7/17/2019 13:47			0	0	0	0	0			
7/17/2019 13:48			0	0	0	0	0			
7/17/2019 13:49			0	0	0	0	0			
7/17/2019 13:50	12.6	100.2	0	0	0	0	0			42.43324;-76.49737
7/17/2019 13:51			0	0	0	0	0			
7/17/2019 13:52			0	0	0	0	0			
7/17/2019 13:53			0	0	0	0	0			
7/17/2019 13:54			0	0	0	0	0			
7/17/2019 13:55	12.6	101.2	0	0	0	0	0			42.43324;-76.49727
7/17/2019 13:56			0	0	0	0	0			
7/17/2019 13:57			0	0	0	0	0			
7/17/2019 13:58			0	0	0	0	0			
7/17/2019 13:59			0	0	0	0	0			
7/17/2019 14:00	12.6	101.2	0	0	0	0	0			
7/17/2019 14:00										42.43324;-76.49731
7/17/2019 14:01			0	0	0	0	0			
7/17/2019 14:02			0	0	0	0	0			
7/17/2019 14:03			0	0	0	0	0			
7/17/2019 14:04			0	0	0	0	0			
7/17/2019 14:05	12.6	95.1	0	0	0	0	0			
7/17/2019 14:05										42.43333;-76.49732
7/17/2019 14:06			0	0	0	0	0			
7/17/2019 14:07			0	0	0	0	0			
7/17/2019 14:08			0	0	0	0	0			
7/17/2019 14:09			0	0	0	0	0			
7/17/2019 14:10	12.6	110.3	0	0	0	0	0			
7/17/2019 14:10										42.43329;-76.49732
7/17/2019 14:11			0	0	0	0	0			
7/17/2019 14:12			0	0	0	0	0			
7/17/2019 14:13			0	0	0	0	0			
7/17/2019 14:14			0	0	0	0	0			
7/17/2019 14:15	12.6	96.2	0	0	0	0	0			
7/17/2019 14:15										42.43334;-76.49733
7/17/2019 14:16			0	0	0	0	0			
7/17/2019 14:17			0	0	0	0	0			
7/17/2019 14:18			0	0	0	0	0			
7/17/2019 14:19			0	0	0	0	0			
7/17/2019 14:20	12.6	104.3	0	0	0	0	0			42.43332;-76.49732
7/17/2019 14:21			0	0	0	0	0			
7/17/2019 14:22			0	0	0	0	0			
7/17/2019 14:23			0	0	0	0	0			
7/17/2019 14:24			0	0	0	0	0			
7/17/2019 14:25	12.6	109.3	0	0	0	0	0			42.43331;-76.49734
7/17/2019 14:26			0	0	0	0	0			
7/17/2019 14:27			0	0	0	0	0			
7/17/2019 14:28			0	0	0	0	0			
7/17/2019 14:29			0	0	0	0	0			
7/17/2019 14:30	12.6	103.2	0	0	0	0	0			42.43331;-76.49735
7/17/2019 14:31			0	0	0	0	0			
7/17/2019 14:32			0	0	0	0	0			
7/17/2019 14:33			0	0	0	0	0			
7/17/2019 14:34			0	0	0	0	0			
7/17/2019 14:35	12.6	97.2	0	0	0	0	0			
7/17/2019 14:35										42.43329;-76.49731
7/17/2019 14:36			0	0	0	0	0			
7/17/2019 14:37			0	0	0	0	0			
7/17/2019 14:38			0	0	0	0	0			
7/17/2019 14:39			0	0	0	0	0			
7/17/2019 14:40	12.6	124.5	0	0	0	0	0			
7/17/2019 14:40										42.43334;-76.49734
7/17/2019 14:41			0	0	0	0	0			
7/17/2019 14:42			0	0	0	0	0			
7/17/2019 14:43			0	0	0	0	0			
7/17/2019 14:44			0	0	0	0	0			
7/17/2019 14:45	12.6	112.4	0	0	0	0	0			
7/17/2019 14:45										42.43333;-76.49735
7/17/2019 14:46			0	0	0	0	0			
7/17/2019 14:47			0	0	0	0	0			
7/17/2019 14:48			0	0	0	0	0			
7/17/2019 14:49			0	0	0	0	0			
7/17/2019 14:50	12.6	110.3	0	0	0	0	0			
7/17/2019 14:50										42.43334;-76.49736
7/17/2019 14:51			0	0	0	0	0			
7/17/2019 14:52			0	0	0	0	0			
7/17/2019 14:53			0	0	0	0	0			
7/17/2019 14:54			0	0	0	0	0			
7/17/2019 14:55	12.6	96.2	0	0	0	0	0			42.43335;-76.49738
7/17/2019 14:56			0	0	0	0	0			
7/17/2019 14:57			0	0	0	0	0			
7/17/2019 14:58			0	0	0	0	0			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/17/2019 14:59			0	0	0	0	0			
7/17/2019 15:00	12.6	112.4	0	0	0	0	0			42.43338;-76.49744
7/17/2019 15:01			0	0	0	0	0			
7/17/2019 15:02			0	0	0	0	0			
7/17/2019 15:03			0	0	0	0	0			
7/17/2019 15:04			0	0	0	0	0			
7/17/2019 15:05	12.6	96.2	0	0	0	0	0			42.4333;-76.49736
7/17/2019 15:06			0	0	0	0	0			
7/17/2019 15:07			0	0	0	0	0			
7/17/2019 15:08			0	0	0	0	0			
7/17/2019 15:09			0	0	0	0	0			
7/17/2019 15:10	12.6	102.2	0	0	0	0	0			42.43339;-76.49737
7/17/2019 15:11			0	0	0	0	0			
7/17/2019 15:12			0	0	0	0	0			
7/17/2019 15:13			0	0	0	0	0			
7/17/2019 15:14			0	0	0	0	0			
7/17/2019 15:15	12.6	107.3	0	0	0	0	0			
7/17/2019 15:15										42.43335;-76.49734
7/17/2019 15:16			0	0	0	0	0			
7/17/2019 15:17			0	0	0	0	0			
7/17/2019 15:18			0	0	0	0	0			
7/17/2019 15:19			0	0	0	0	0			
7/17/2019 15:20	12.6	101.2	0	0	0	0	0			
7/17/2019 15:20										42.43362;-76.49744
7/17/2019 15:21			0	0	0	0	0			
7/17/2019 15:22			0	0	0	0	0			
7/17/2019 15:23			0	0	0	0	0			
7/17/2019 15:24			0	0	0	0	0			
7/17/2019 15:25	12.6	95.1	0	0	0	0	0			
7/17/2019 15:25										42.43328;-76.49734
7/17/2019 15:26			0	0	0	0	0			
7/17/2019 15:27			0	0	0	0	0			
7/17/2019 15:28			0	0	0	0	0			
7/17/2019 15:29			0	0	0	0	0			
7/17/2019 15:30	12.6	99.2	0	0	0	0	0			
7/17/2019 15:30										42.43319;-76.49732
7/17/2019 15:31			0	0	0	0	0			
7/17/2019 15:32			0	0	0	0	0			
7/17/2019 15:33			0	0	0	0	0			
7/17/2019 15:34			0	0	0	0	0			
7/17/2019 15:35	12.6	96.2	0	0	0	0	0			42.43329;-76.49731
7/17/2019 15:36			0	0	0	0	0			
7/17/2019 15:37			0	0	0	0	0			
7/17/2019 15:38			0	0	0	0	0			
7/17/2019 15:39			0	0	0	0	0			
7/17/2019 15:40	12.5	114.4	0	0	0	0	0			42.4333;-76.49725
7/17/2019 15:41			0	0	0	0	0			
7/17/2019 15:42			0	0	0	0	0			
7/17/2019 15:43			0	0	0	0	0			
7/17/2019 15:44			0	0	0	0	0			
7/17/2019 15:45	12.5	98.2	0	0	0	0	0			42.43334;-76.4973
7/17/2019 15:46			0	0	0	0	0			
7/17/2019 15:47			0	0	0	0	0			
7/17/2019 15:48			0	0	0	0	0			
7/17/2019 15:49			0	0	0	0	0			
7/17/2019 15:50	12.5	96.2	0	0	0	0	0			42.4333;-76.49727
7/17/2019 15:51			0	0	0	0	0			
7/17/2019 15:52			0	0	0	0	0			
7/17/2019 15:53			0	0	0	0	0			
7/17/2019 15:54			0	0	0	0	0			
7/17/2019 15:55	12.5	107.3	0	0	0	0	0			
7/17/2019 15:55										42.4333;-76.49728
7/17/2019 15:56			0	0	0	0	0			
7/17/2019 15:57			0	0	0	0	0			
7/17/2019 15:58			0	0	0	0	0			
7/17/2019 15:59			0	0	0	0	0			
7/17/2019 16:00	12.5	122.5	0	0	0	0	0			
7/17/2019 16:00										42.43328;-76.49725
7/17/2019 16:01			0	0	0	0	0			
7/17/2019 16:02			0	0	0	0	0			
7/17/2019 16:03			0	0	0	0	0			
7/17/2019 16:04			0	0	0	0	0			
7/17/2019 16:05	12.5	104.3	0	0	0	0	0			
7/17/2019 16:05										42.4333;-76.49725
7/17/2019 16:06			0	0	0	0	0			
7/17/2019 16:07			0	0	0	0	0			
7/17/2019 16:08			0	0	0	0	0			
7/17/2019 16:09			0	0	0	0	0			
7/17/2019 16:10	12.5	97.2	0	0	0	0	0			
7/17/2019 16:10										42.43335;-76.49728
7/17/2019 16:11			0	0	0	0	0			
7/17/2019 16:12			0	0	0	0	0			
7/17/2019 16:13			0	0	0	0	0			
7/17/2019 16:14			0	0	0	0	0			
7/17/2019 16:15	12.5	96.2	0	0	0	0	0			42.43333;-76.49728
7/17/2019 16:16			0	0	0	0	0			
7/17/2019 16:17			0	0	0	0	0			
7/17/2019 16:18			0	0	0	0	0			
7/17/2019 16:19			0	0	0	0	0			
7/17/2019 16:20	12.5	96.2	0	0	0	0	0			42.43333;-76.49728
7/17/2019 16:21			0	0	0	0	0			
7/17/2019 16:22			0	0	0	0	0			
7/17/2019 16:23			0	0	0	0	0			
7/17/2019 16:24			0	0	0	0	0			
7/17/2019 16:25	12.5	110.3	0	0	0	0	0			42.43328;-76.49725
7/17/2019 16:26			0	0	0	0	0			
7/17/2019 16:27			0	0	0	0	0			
7/17/2019 16:28			0	0	0	0	0			
7/17/2019 16:29			0	0	0	0	0			
7/17/2019 16:30	12.5	106.3	0	0	0	0	0			42.43334;-76.49725
7/17/2019 16:31			0	0	0	0	0			
7/17/2019 16:32			0	0	0	0	0			
7/17/2019 16:33			0	0	0	0	0			
7/17/2019 16:34			0	0	0	0	0			
7/17/2019 16:35	12.5	100.2	0	0	0	0	0			
7/17/2019 16:35										42.43333;-76.49728
7/17/2019 16:36			0	0	0	0	0			
7/17/2019 16:37			0	0	0	0	0			
7/17/2019 16:38			0	0	0	0	0			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/17/2019 16:39			0	0	0	0	0			
7/17/2019 16:40	12.5	127.5	0	0	0	0	0			42.43329;-76.49723
7/17/2019 16:41			0	0	0	0	0			
7/17/2019 16:42			0	0	0	0	0			
7/17/2019 16:43			0	0	0	0	0			
7/17/2019 16:44			0	0	0	0	0			
7/17/2019 16:45	12.5	106.3	0	0	0	0	0			42.43327;-76.49725
7/17/2019 16:46			0	0	0	0	0			
7/17/2019 16:47			0	0	0	0	0			
7/17/2019 16:48			0	0	0	0	0			
7/17/2019 16:49			0	0	0	0	0			
7/17/2019 16:50	12.5	97.2	0	0	0	0	0			42.43327;-76.49728
7/17/2019 16:51			0	0	0	0	0			
7/17/2019 16:52			0	0	0	0	0			
7/17/2019 16:53			0	0	0	0	0			
7/17/2019 16:54			0	0	0	0	0			
7/17/2019 16:55	12.5	111.3	0	0	0	0	0			42.43327;-76.4973
7/17/2019 16:56			0	0	0	0	0			
7/17/2019 16:57			0	0	0	0	0			
7/17/2019 16:58			0	0	0	0	0			
7/17/2019 16:59			0	0	0	0	0			
7/17/2019 17:00	12.5	97.2	0	0	0	0	0			42.43331;-76.49728
7/17/2019 17:01			0	0	0	0	0			
7/17/2019 17:02			0	0	0	0	0			
7/17/2019 17:03			0	0	0	0	0			
7/17/2019 17:04			0	0	0	0	0			
7/17/2019 17:05	12.5	115.4	0	0	0	0	0			
7/17/2019 17:05										42.43327;-76.49724
7/17/2019 17:06			0	0	0	0	0			
7/17/2019 17:07			0	0	0	0	0			
7/17/2019 17:08			0	0	0	0	0			
7/17/2019 17:09			0	0	0	0	0			
7/17/2019 17:10	12.5	96.2	0	0	0	0	0			
7/17/2019 17:10										42.43318;-76.49722
7/17/2019 17:11			0	0	0	0	0			
7/17/2019 17:12			0	0	0	0	0			
7/17/2019 17:13			0	0	0	0	0			
7/17/2019 17:14			0	0	0	0	0			
7/17/2019 17:15	12.5	96.2	0	0	0	0	0			42.4333;-76.49726
7/17/2019 17:16			0	0	0	0	0			
7/17/2019 17:17			0	0	0	0	0			
7/17/2019 17:18			0	0	0	0	0			
7/17/2019 17:19			0	0	0	0	0			
7/17/2019 17:20	12.5	96.2	0	0	0	0	0			42.43329;-76.49724
7/17/2019 17:21			0	0	0	0	0			
7/17/2019 17:22			0	0	0	0	0			
7/17/2019 17:23			0	0	0	0	0			
7/17/2019 17:24			0	0	0	0	0			
7/17/2019 17:25	12.5	105.3	0	0	0	0	0			42.4333;-76.49729
7/17/2019 17:26			0	0	0	0	0			
7/17/2019 17:27			0	0	0	0	0			
7/17/2019 17:28			0	0	0	0	0			
7/17/2019 17:29			0	0	0	0	0			
7/17/2019 17:30	12.5	98.2	0	0	0	0	0			42.4333;-76.49726
7/17/2019 17:31			0	0	0	0	0			
7/17/2019 17:32			0	0	0	0	0			
7/17/2019 17:33			0	0	0	0	0			
7/17/2019 17:34			0	0	0	0	0			
7/17/2019 17:35	12.5	97.2	0	0	0	0	0			
7/17/2019 17:35										42.4332;-76.49721
7/17/2019 17:36			0	0	0	0	0			
7/17/2019 17:37			0	0	0	0	0			
7/17/2019 17:38			0	0	0	0	0			
7/17/2019 17:39			0	0	0	0	0			
7/17/2019 17:40	12.5	96.2	0	0	0	0	0			
7/17/2019 17:40										42.4333;-76.49725
7/17/2019 17:41			0	0	0	0	0			
7/17/2019 17:42			0	0	0	0	0			
7/17/2019 17:43			0	0	0	0	0			
7/17/2019 17:44			0	0	0	0	0			
7/17/2019 17:45	12.5	108.3	0	0	0	0	0			
7/17/2019 17:45										42.4334;-76.49735
7/17/2019 17:46			0	0	0	0	0			
7/17/2019 17:47			0	0	0	0	0			
7/17/2019 17:48			0	0	0	0	0			
7/17/2019 17:49			0	0	0	0	0			
7/17/2019 17:50	12.5	106.3	0	0	0	0	0			42.43339;-76.49733
7/17/2019 17:51			0	0	0	0	0			
7/17/2019 17:52			0	0	0	0	0			
7/17/2019 17:53			0	0	0	0	0			
7/17/2019 17:54			0	0	0	0	0			
7/17/2019 17:55	12.5	97.2	0	0	0	0	0			42.4333;-76.49733
7/17/2019 17:56			0	0	0	0	0			
7/17/2019 17:57			0	0	0	0	0			
7/17/2019 17:58			0	0	0	0	0			
7/17/2019 17:59			0	0	0	0	0			
7/17/2019 18:00	12.5	100.2	0	0	0	0	0			42.43339;-76.49732
7/17/2019 18:01			0	0	0	0	0			
7/17/2019 18:02			0	0	0	0	0			
7/17/2019 18:03			0	0	0	0	0			
7/17/2019 18:04			0	0	0	0	0			
7/17/2019 18:05	12.5	97.2	0	0	0	0	0			42.43338;-76.49731
7/17/2019 18:06			0	0	0	0	0			
7/17/2019 18:07			0	0	0	0	0			
7/17/2019 18:08			0	0	0	0	0			
7/17/2019 18:09			0	0	0	0	0			
7/17/2019 18:10	12.4	97.2	0	0	0	0	0			
7/17/2019 18:10										42.43331;-76.49734
7/17/2019 18:11			0	0	0	0	0			
7/17/2019 18:12			0	0	0	0	0			
7/17/2019 18:13			0	0	0	0	0			
7/17/2019 18:14			0	0	0	0	0			
7/17/2019 18:15	12.4	106.3	0	0	0	0	0			
7/17/2019 18:15										42.4333;-76.49733
7/17/2019 18:16			0	0	0	0	0			
7/17/2019 18:17			0	0	0	0	0			
7/17/2019 18:18			0	0	0	0	0			
7/17/2019 18:19			0	0	0	0	0			
7/17/2019 18:20	12.4	97.2	0	0	0	0	0			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/17/2019 18:20										42.43325;-76.49733
7/17/2019 18:21			0	0	0	0	0			
7/17/2019 18:22			0	0	0	0	0			
7/17/2019 18:23			0	0	0	0	0			
7/17/2019 18:24			0	0	0	0	0			
7/17/2019 18:25	12.4	98.2	0	0	0	0	0			
7/17/2019 18:25										42.43322;-76.49736
7/17/2019 18:26			0	0	0	0	0			
7/17/2019 18:27			0	0	0	0	0			
7/17/2019 18:28			0	0	0	0	0			
7/17/2019 18:29			0	0	0	0	0			
7/17/2019 18:30	12.4	112.4	0	0	0	0	0			42.43319;-76.49734
7/17/2019 18:31			0	0	0	0	0			
7/17/2019 18:32			0	0	0	0	0			
7/17/2019 18:33			0	0	0	0	0			
7/17/2019 18:34			0	0	0	0	0			
7/17/2019 18:35	12.4	99.2	0	0	0	0	0			42.43324;-76.4974
7/17/2019 18:36			0	0	0	0	0			
7/17/2019 18:37			0	0	0	0	0			
7/17/2019 18:38			0	0	0	0	0			
7/17/2019 18:39			0	0	0	0	0			
7/17/2019 18:40	12.4	97.2	0	0	0	0	0			42.43314;-76.49734
7/17/2019 18:41			0	0	0	0	0			
7/17/2019 18:42			0	0	0	0	0			
7/17/2019 18:43			0	0	0	0	0			
7/17/2019 18:44			0	0	0	0	0			
7/17/2019 18:45	12.4	98.2	0	0	0	0	0			42.43318;-76.49734
7/17/2019 18:46			0	0	0	0	0			
7/17/2019 18:47			0	0	0	0	0			
7/17/2019 18:48			0	0	0	0	0			
7/17/2019 18:49			0	0	0	0	0			
7/17/2019 18:50	12.4	97.2	0	0	0	0	0			
7/17/2019 18:50										42.4332;-76.49738
7/17/2019 18:51			0	0	0	0	0			
7/17/2019 18:52			0	0	0	0	0			
7/17/2019 18:53			0	0	0	0	0			
7/17/2019 18:54			0	0	0	0	0			
7/17/2019 18:55	12.4	96.2	0	0	0	0	0			
7/17/2019 18:55										42.43317;-76.49736
7/17/2019 18:56			0	0	0	0	0			
7/17/2019 18:57			0	0	0	0	0			
7/17/2019 18:58			0	0	0	0	0			
7/17/2019 18:59			0	0	0	0	0			
7/17/2019 19:00	12.4	96.2	0	0	0	0	0			
7/17/2019 19:00										42.43312;-76.49732
7/17/2019 19:01			0	0	0	0	0			
7/17/2019 19:02			0	0	0	0	0			
7/17/2019 19:03			0	0	0	0	0			
7/17/2019 19:04			0	0	0	0	0			
7/17/2019 19:05	12.4	102.2	0	0	0	0	0			
7/17/2019 19:05										42.43314;-76.49733
7/17/2019 19:06			0	0	0	0	0			
7/17/2019 19:07			0	0	0	0	0			
7/17/2019 19:08			0	0	0	0	0			
7/17/2019 19:09			0	0	0	0	0			
7/17/2019 19:10	12.4	97.2	0	0	0	0	0			42.43325;-76.49731
7/17/2019 19:11			0	0	0	0	0			
7/17/2019 19:12			0	0	0	0	0			
7/17/2019 19:13			0	0	0	0	0			
7/17/2019 19:14			0	0	0	0	0			
7/17/2019 19:15	12.4	98.2	0	0	0	0	0			42.43324;-76.49731
7/17/2019 19:16			0	0	0	0	0			
7/17/2019 19:17			0	0	0	0	0			
7/17/2019 19:18			0	0	0	0	0			
7/17/2019 19:19			0	0	0	0	0			
7/17/2019 19:20	12.4	119.4	0	0	0	0	0			42.43327;-76.49725
7/17/2019 19:21			0	0	0	0	0			
7/17/2019 19:22			0	0	0	0	0			
7/17/2019 19:23			0	0	0	0	0			
7/17/2019 19:24			0	0	0	0	0			
7/17/2019 19:25	12.4	98.2	0	0	0	0	0			42.4333;-76.49734
7/17/2019 19:26			0	0	0	0	0			
7/17/2019 19:27			0	0	0	0	0			
7/17/2019 19:28			0	0	0	0	0			
7/17/2019 19:29			0	0	0	0	0			
7/17/2019 19:30	12.4	110.3	0	0	0	0	0			
7/17/2019 19:30										42.4333;-76.49724
7/17/2019 19:31			0	0	0	0	0			
7/17/2019 19:32			0	0	0	0	0			
7/17/2019 19:33			0	0	0	0	0			
7/17/2019 19:34			0	0	0	0	0			
7/17/2019 19:35	12.4	96.2	0	0	0	0	0			
7/17/2019 19:35										42.4333;-76.49731
7/17/2019 19:36			0	0	0	0	0			
7/17/2019 19:37			0	0	0	0	0			
7/17/2019 19:38			0	0	0	0	0			
7/17/2019 19:39			0	0	0	0	0			
7/17/2019 19:40	12.4	100.2	0	0	0	0	0			
7/17/2019 19:40										42.4333;-76.49726
7/17/2019 19:41			0	0	0	0	0			
7/17/2019 19:42			0	0	0	0	0			
7/17/2019 19:43			0	0	0	0	0			
7/17/2019 19:44			0	0	0	0	0			
7/17/2019 19:45	12.4	101.2	0	0	0	0	0			
7/17/2019 19:45										42.4333;-76.49722
7/17/2019 19:46			0	0	0	0	0			
7/17/2019 19:47			0	0	0	0	0			
7/17/2019 19:48			0	0	0	0	0			
7/17/2019 19:49			0	0	0	0	0			
7/17/2019 19:50	12.4	102.2	0	0	0	0	0			42.43325;-76.49722
7/17/2019 19:51			0	0	0	0	0			
7/17/2019 19:52			0	0	0	0	0			
7/17/2019 19:53			0	0	0	0	0			
7/17/2019 19:54			0	0	0	0	0			
7/17/2019 19:55	12.4	98.2	0	0	0	0	0			42.43335;-76.49733
7/17/2019 19:56			0	0	0	0	0			
7/17/2019 19:57			0	0	0	0	0			
7/17/2019 19:58			0	0	0	0	0			
7/17/2019 19:59			0	0	0	0	0			

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/17/2019 20:00	12.4	104.3	0	0	0	0	0			42.43339;-76.49736
7/17/2019 20:01			0	0	0	0	0			
7/17/2019 20:02			0	0	0	0	0			
7/17/2019 20:03			0	0	0	0	0			
7/17/2019 20:04			0	0	0	0	0			
7/17/2019 20:05	12.4	120.5	0	0	0	0	0			
7/17/2019 20:05										42.43331;-76.4974
7/17/2019 20:06			0	0	0	0	0			
7/17/2019 20:07			0	0	0	0	0			
7/17/2019 20:08			0	0	0	0	0			
7/17/2019 20:09			0	0	0	0	0			
7/17/2019 20:10	12.4	101.2	0	0	0	0	0			
7/17/2019 20:10										42.43321;-76.49736
7/17/2019 20:11			0	0	0	0	0			
7/17/2019 20:12			0	0	0	0	0			
7/17/2019 20:13			0	0	0	0	0			
7/17/2019 20:14			0	0	0	0	0			
7/17/2019 20:15	12.3	102.2	0	0	0	0	0			
7/17/2019 20:15										42.43325;-76.49731
7/17/2019 20:16			0	0	0	0	0			
7/17/2019 20:17			0	0	0	0	0			
7/17/2019 20:18			0	0	0	0	0			
7/17/2019 20:19			0	0	0	0	0			
7/17/2019 20:20	12.3	98.2	0	0	0	0	0			
7/17/2019 20:20										42.43337;-76.49731
7/17/2019 20:21			0	0	0	0	0			
7/17/2019 20:22			0	0	0	0	0			
7/17/2019 20:23			0	0	0	0	0			
7/17/2019 20:24			0	0	0	0	0			
7/17/2019 20:25	12.3	100.2	0	0	0	0	0			42.43325;-76.49729
7/17/2019 20:26			0	0	0	0	0			
7/17/2019 20:27			0	0	0	0	0			
7/17/2019 20:28			0	0	0	0	0			
7/17/2019 20:29			0	0	0	0	0			
7/17/2019 20:30	12.4	101.2	0	0	0	0	0			42.43327;-76.49731
7/17/2019 20:31			0	0	0	0	0			
7/17/2019 20:32			0	0	0	0	0			
7/17/2019 20:33			0	0	0	0	0			
7/17/2019 20:34			0	0	0	0	0			
7/17/2019 20:35	12.3	97.2	0	0	0	0	0			42.43326;-76.4973
7/17/2019 20:36			0	0	0	0	0			
7/17/2019 20:37			0	0	0	0	0			
7/17/2019 20:38			0	0	0	0	0			
7/17/2019 20:39			0	0	0	0	0			
7/17/2019 20:40	12.3	101.2	0	0	0	0	0			42.43328;-76.49729
7/31/2019 13:19	12.5	118.4								
7/31/2019 13:20	12.4	152.8	0	0	0	0	0			
7/31/2019 13:21			0	0	0	0	0			
7/31/2019 13:22			0	0	0	0	0	0	0.03	
7/31/2019 13:23			0	0	0	0	0	0	0.03	
7/31/2019 13:24			0	0	0	0	0	0	0.029	
7/31/2019 13:25	12.4	102.2	0	0	0	0	0	0	0.032	
7/31/2019 13:25										42.43274;-76.49818
7/31/2019 13:26			0	0	0	0	0	0	0.029	
7/31/2019 13:27			0	0	0	0	0	0	0.03	
7/31/2019 13:28			0	0	0	0	0	0	0.029	
7/31/2019 13:29			0	0	0	0	0	0	0.027	
7/31/2019 13:30	12.5	100.2	0	0	0	0	0	0	0.026	
7/31/2019 13:30										42.43273;-76.4982
7/31/2019 13:31			0	0	0	0	0	0	0.026	
7/31/2019 13:32			0	0	0	0	0	0	0.027	
7/31/2019 13:33			0	0	0	0	0	0	0.026	
7/31/2019 13:34			0	0	0	0	0	0	0.026	
7/31/2019 13:35	12.5	105.3	0	0	0	0	0	0	0.026	
7/31/2019 13:35										42.43272;-76.49821
7/31/2019 13:36			0	0	0	0	0	0	0.024	
7/31/2019 13:37			0	0	0	0	0	0.001	0.025	
7/31/2019 13:38			0	0	0	0	0	0.001	0.025	
7/31/2019 13:39			0	0	0	0	0	0.001	0.025	
7/31/2019 13:40	12.5	114.4	0	0	0	0	0	0.001	0.024	
7/31/2019 13:40										42.43276;-76.49823
7/31/2019 13:41			0	0	0	0	0	0.001	0.024	
7/31/2019 13:42			0	0	0	0	0	0.001	0.024	
7/31/2019 13:43			0	0	0	0	0	0.001	0.026	
7/31/2019 13:44			0	0	0	0	0	0.001	0.029	
7/31/2019 13:45	12.5	105.3	0	0	0	0	0	0.001	0.027	
7/31/2019 13:45										42.43274;-76.49822
7/31/2019 13:46			0	0	0	0	0	0.001	0.023	
7/31/2019 13:47			0	0	0	0	0	0.001	0.025	
7/31/2019 13:48			0	0	0	0	0	0.001	0.027	
7/31/2019 13:49			0	0	0	0	0	0.002	0.027	
7/31/2019 13:50	12.5	101.2	0	0	0	0	0	0.002	0.024	
7/31/2019 13:50										42.4327;-76.49821
7/31/2019 13:51			0	0	0	0	0	0.002	0.023	
7/31/2019 13:52			0	0	0	0	0	0.002	0.025	
7/31/2019 13:53			0	0	0	0	0	0.002	0.025	
7/31/2019 13:54			0	0	0	0	0	0.002	0.023	
7/31/2019 13:55	12.5	106.3	0	0	0	0	0	0.002	0.026	
7/31/2019 13:55										42.43272;-76.49825
7/31/2019 13:56			0	0	0	0	0	0.002	0.023	
7/31/2019 13:57			0	0	0	0	0	0.002	0.023	
7/31/2019 13:58			0	0	0	0	0	0.002	0.022	
7/31/2019 13:59			0	0	0	0	0	0.002	0.023	
7/31/2019 14:00	12.5	106.3	0	0	0	0	0	0.002	0.031	
7/31/2019 14:00										42.4327;-76.49821
7/31/2019 14:01			0	0	0	0	0	0.002	0.024	
7/31/2019 14:02			0	0	0	0	0	0.002	0.021	
7/31/2019 14:03			0	0	0	0	0	0.002	0.021	
7/31/2019 14:04			0	0	0	0	0	0.002	0.021	
7/31/2019 14:05	12.5	114.4	0	0	0	0	0	0.002	0.02	
7/31/2019 14:05										42.43272;-76.49821
7/31/2019 14:06			0	0	0	0	0	0.002	0.025	
7/31/2019 14:07			0	0	0	0	0	0.002	0.026	
7/31/2019 14:08			0	0	0	0	0	0.002	0.019	
7/31/2019 14:09			0	0	0	0	0	0.002	0.019	
7/31/2019 14:10	12.5	99.2	0	0	0	0	0	0.003	0.019	
7/31/2019 14:10										42.43272;-76.49821
7/31/2019 14:11			0	0	0	0	0	0.003	0.023	
7/31/2019 14:12			0	0	0	0	0	0.003	0.02	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/31/2019 14:13			0	0	0	0	0	0.003	0.02	
7/31/2019 14:14			0	0	0	0	0	0.003	0.02	
7/31/2019 14:15	12.5	111.3	0	0	0	0	0	0.003	0.022	
7/31/2019 14:15										42.43282;-76.49821
7/31/2019 14:16			0	0	0	0	0	0.003	0.021	
7/31/2019 14:17			0	0	0	0	0	0.003	0.02	
7/31/2019 14:18			0	0	0	0	0	0.003	0.023	
7/31/2019 14:19			0	0	0	0	0	0.003	0.02	
7/31/2019 14:20	12.5	125.5	0	0	0	0	0	0.003	0.02	
7/31/2019 14:21			0	0	0	0	0	0.003	0.02	
7/31/2019 14:21										42.43273;-76.49825
7/31/2019 14:22			0	0	0	0	0	0.003	0.02	
7/31/2019 14:23			0	0	0	0	0	0.003	0.02	
7/31/2019 14:24			0	0	0	0	0	0.003	0.02	
7/31/2019 14:25	12.5	98.2	0	0	0	0	0	0.003	0.02	42.43248;-76.49811
7/31/2019 14:26			0	0	0	0	0	0.003	0.02	
7/31/2019 14:27			0	0	0	0	0	0.003	0.02	
7/31/2019 14:28			0	0	0	0	0	0.003	0.02	
7/31/2019 14:29			0	0	0	0	0	0.003	0.019	
7/31/2019 14:30	12.5	100.2	0	0	0	0	0	0.003	0.019	42.43274;-76.49823
7/31/2019 14:31			0	0	0	0	0	0.003	0.02	
7/31/2019 14:32			0	0	0	0	0	0.003	0.02	
7/31/2019 14:33			0	0	0	0	0	0.004	0.02	
7/31/2019 14:34			0	0	0	0	0	0.004	0.02	
7/31/2019 14:35	12.5	105.3	0	0	0	0	0	0.004	0.02	42.43267;-76.49821
7/31/2019 14:36			0	0	0	0	0	0.004	0.02	
7/31/2019 14:37			0	0	0	0	0	0.004	0.02	
7/31/2019 14:38			0	0	0	0	0	0.004	0.02	
7/31/2019 14:39			0	0	0	0	0	0.004	0.02	
7/31/2019 14:40	12.5	127.5	0	0	0	0	0	0.004	0.021	
7/31/2019 14:40										42.43265;-76.49821
7/31/2019 14:41			0	0	0	0	0	0.004	0.02	
7/31/2019 14:42			0	0	0	0	0	0.004	0.022	
7/31/2019 14:43			0	0	0	0	0	0.004	0.02	
7/31/2019 14:44			0	0	0	0	0	0.004	0.022	
7/31/2019 14:45	12.5	103.2	0	0	0	0	0	0.004	0.02	
7/31/2019 14:46			0	0	0	0	0	0.004	0.02	
7/31/2019 14:46										42.43266;-76.49817
7/31/2019 14:47			0	0	0	0	0	0.004	0.02	
7/31/2019 14:48			0	0	0	0	0	0.004	0.02	
7/31/2019 14:49			0	0	0	0	0	0.004	0.02	
7/31/2019 14:50	12.5	112.4	0	0	0	0	0	0.004	0.02	42.43269;-76.49819
7/31/2019 14:51			0	0	0	0	0	0.004	0.02	
7/31/2019 14:52			0	0	0	0	0	0.004	0.019	
7/31/2019 14:53			0	0	0	0	0	0.004	0.019	
7/31/2019 14:54			0	0	0	0	0	0.004	0.02	
7/31/2019 14:55	12.5	117.4	0	0	0	0	0	0.004	0.019	42.43267;-76.49817
7/31/2019 14:56			0	0	0	0	0	0.004	0.019	
7/31/2019 14:57			0	0	0	0	0	0.004	0.019	
7/31/2019 14:58			0	0	0	0	0	0.005	0.019	
7/31/2019 14:59			0	0	0	0	0	0.005	0.019	
7/31/2019 15:00	12.5	98.2	0	0	0	0	0	0.005	0.019	42.43267;-76.49815
7/31/2019 15:01			0	0	0	0	0	0.005	0.019	
7/31/2019 15:02			0	0	0	0	0	0.005	0.019	
7/31/2019 15:03			0	0	0	0	0	0.005	0.018	
7/31/2019 15:04			0	0	0	0	0	0.005	0.018	
7/31/2019 15:05	12.5	100.2	0	0	0	0	0	0.005	0.018	42.43264;-76.4982
7/31/2019 15:06			0	0	0	0	0	0.005	0.041	
7/31/2019 15:07			0	0	0	0	0	0.005	0.019	
7/31/2019 15:08			0	0	0	0	0	0.005	0.019	
7/31/2019 15:09			0	0	0	0	0	0.005	0.018	
7/31/2019 15:10	12.5	110.3	0	0	0	0	0	0.005	0.021	
7/31/2019 15:11			0	0	0	0	0	0.005	0.04	
7/31/2019 15:12			0	0	0	0	0	0.005	0.02	
7/31/2019 15:12										42.43265;-76.49813
7/31/2019 15:13			0	0	0	0	0	0.005	0.019	
7/31/2019 15:14			0	0	0	0	0	0.005	0.019	
7/31/2019 15:15	12.5	116.4	0	0	0	0	0	0.005	0.017	
7/31/2019 15:15										42.43269;-76.49815
7/31/2019 15:16			0	0	0	0	0	0.005	0.018	
7/31/2019 15:17			0	0	0	0	0	0.005	0.018	
7/31/2019 15:18			0	0	0	0	0	0.005	0.018	
7/31/2019 15:19			0	0	0	0	0	0.005	0.018	
7/31/2019 15:20	12.5	133.6	0	0	0	0	0	0.005	0.018	42.4327;-76.49821
7/31/2019 15:21			0	0	0	0	0	0.006	0.018	
7/31/2019 15:22			0	0	0	0	0	0.006	0.018	
7/31/2019 15:23			0	0	0	0	0	0.006	0.018	
7/31/2019 15:24			0	0	0	0	0	0.006	0.018	
7/31/2019 15:25	12.5	104.3	0	0	0	0	0	0.006	0.017	
7/31/2019 15:25										42.43268;-76.49819
7/31/2019 15:26			0	0	0	0	0	0.006	0.017	
7/31/2019 15:27			0	0	0	0	0	0.006	0.018	
7/31/2019 15:28			0	0	0	0	0	0.006	0.018	
7/31/2019 15:29			0	0	0	0	0	0.006	0.019	
7/31/2019 15:30	12.5	111.3	0	0	0	0	0	0.006	0.018	42.4326;-76.49804
7/31/2019 15:31			0	0	0	0	0	0.006	0.018	
7/31/2019 15:32			0	0	0	0	0	0.006	0.018	
7/31/2019 15:33			0	0	0	0	0	0.006	0.018	
7/31/2019 15:34			0	0	0	0	0	0.006	0.018	
7/31/2019 15:35	12.5	123.5	0	0	0	0	0	0.006	0.018	
7/31/2019 15:35										42.43266;-76.49814
7/31/2019 15:36			0	0	0	0	0	0.006	0.018	
7/31/2019 15:37			0	0	0	0	0	0.006	0.018	
7/31/2019 15:38			0	0	0	0	0	0.006	0.017	
7/31/2019 15:39			0	0	0	0	0	0.006	0.018	
7/31/2019 15:40	12.5	99.2	0	0	0	0	0	0.006	0.017	42.43267;-76.49816
7/31/2019 15:41			0	0	0	0	0	0.006	0.018	
7/31/2019 15:42			0	0	0	0	0	0.006	0.019	
7/31/2019 15:43			0	0	0	0	0	0.006	0.019	
7/31/2019 15:44			0	0	0	0	0	0.006	0.018	
7/31/2019 15:45	12.5	103.2	0	0	0	0	0	0.006	0.018	42.43267;-76.49815
7/31/2019 15:46			0	0	0	0	0	0.006	0.018	
7/31/2019 15:47			0	0	0	0	0	0.006	0.018	
7/31/2019 15:48			0	0	0	0	0	0.007	0.017	
7/31/2019 15:49			0	0	0	0	0	0.007	0.017	
7/31/2019 15:50	12.5	101.2	0	0	0	0	0	0.007	0.017	
7/31/2019 15:50										42.43268;-76.49809
7/31/2019 15:51			0	0	0	0	0	0.007	0.018	
7/31/2019 15:52			0	0	0	0	0	0.007	0.017	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
7/31/2019 15:53			0	0	0	0	0	0.007	0.017	
7/31/2019 15:54			0	0	0	0	0	0.007	0.017	
7/31/2019 15:55	12.5	109.3	0	0	0	0	0	0.007	0.017	42.43304;-76.49789
7/31/2019 15:56			0	0	0	0	0	0.007	0.017	
7/31/2019 15:57			0	0	0	0	0	0.007	0.017	
7/31/2019 15:58			0	0	0	0	0	0.007	0.017	
7/31/2019 15:59			0	0	0	0	0	0.007	0.017	
7/31/2019 16:00	12.5	104.3	0	0	0	0	0	0.007	0.017	42.43277;-76.49783
7/31/2019 16:01			0	0	0	0	0	0.007	0.017	
7/31/2019 16:02			0	0	0	0	0	0.007	0.017	
7/31/2019 16:03			0	0	0	0	0	0.007	0.017	
7/31/2019 16:04			0	0	0	0	0	0.007	0.017	
7/31/2019 16:05	12.5	109.3	0	0	0	0	0	0.007	0.017	42.43265;-76.49808
7/31/2019 16:06			0	0	0	0	0	0.007	0.017	
7/31/2019 16:07			0	0	0	0	0	0.007	0.017	
7/31/2019 16:08			0	0	0	0	0	0.007	0.017	
7/31/2019 16:09			0	0	0	0	0	0.007	0.019	
7/31/2019 16:10	12.5	105.3	0	0	0	0	0	0.007	0.018	42.43267;-76.49806
7/31/2019 16:11			0	0	0	0	0	0.007	0.017	
7/31/2019 16:12			0	0	0	0	0	0.007	0.017	
7/31/2019 16:13			0	0	0	0	0	0.007	0.017	
7/31/2019 16:14			0	0	0	0	0	0.007	0.017	
7/31/2019 16:15	12.5	103.2	0	0	0	0	0	0.007	0.017	42.43267;-76.49806
7/31/2019 16:16			0	0	0	0	0	0.008	0.017	
7/31/2019 16:17			0	0	0	0	0	0.008	0.017	
7/31/2019 16:18			0	0	0	0	0	0.008	0.017	
7/31/2019 16:19			0	0	0	0	0	0.008	0.017	
7/31/2019 16:20	12.5	100.2	0	0.001	0	0	0	0.008	0.017	42.43267;-76.49812
7/31/2019 16:21			0	0.001	0	0	0	0.008	0.017	
7/31/2019 16:22			0	0.001	0	0	0	0.008	0.017	
7/31/2019 16:23			0	0.001	0	0	0	0.008	0.018	
7/31/2019 16:24			0	0.001	0	0	0	0.008	0.017	
7/31/2019 16:25	12.4	100.2	0	0.001	0	0	0	0.008	0.017	42.4327;-76.49814
7/31/2019 16:26			0	0.001	0	0	0	0.008	0.017	
7/31/2019 16:27			0	0.001	0	0	0	0.008	0.017	
7/31/2019 16:28			0	0.001	0	0	0	0.008	0.017	
7/31/2019 16:29			0	0.001	0	0	0	0.008	0.017	
7/31/2019 16:30	12.4	100.2	0	0.001	0	0	0.001	0.008	0.016	42.43278;-76.49815
7/31/2019 16:31			0	0.008	0	0	0	0.008	0.016	
7/31/2019 16:32			0	0.01	0	0	0	0.008	0.016	
7/31/2019 16:33			0	0.01	0	0	0	0.008	0.016	
7/31/2019 16:34			0	0.01	0	0	0.001	0.008	0.015	
7/31/2019 16:35	12.4	109.3	0	0.016	0	0	0.016	0.008	0.015	42.43271;-76.49812
7/31/2019 16:36			0	0.017	0	0	0.005	0.008	0.015	
7/31/2019 16:37			0	0.032	0	0	0.004	0.008	0.015	
7/31/2019 16:38			0	0.032	0.001	0	0.013	0.008	0.016	
7/31/2019 16:39			0	0.032	0.002	0	0.003	0.008	0.015	
7/31/2019 16:40	12.4	101.2	0	0.032	0.002	0	0.006	0.008	0.015	42.43284;-76.49815
7/31/2019 16:41			0	0.032	0.002	0	0	0.008	0.015	
7/31/2019 16:42			0	0.032	0.003	0	0.003	0.008	0.016	
7/31/2019 16:43			0	0.032	0.004	0	0	0.008	0.016	
7/31/2019 16:44			0	0.032	0.004	0	0.004	0.008	0.016	
7/31/2019 16:45	12.4	108.3	0	0.032	0.005	0	0.012	0.009	0.016	42.4328;-76.49815
7/31/2019 16:46			0	0.032	0.005	0	0.002	0.009	0.016	
7/31/2019 16:47			0	0.036	0.006	0	0.025	0.009	0.016	
7/31/2019 16:48			0	0.038	0.006	0	0.037	0.009	0.016	
7/31/2019 16:49			0	0.046	0.008	0	0.03	0.009	0.016	
7/31/2019 16:50	12.4	105.3	0	0.046	0.01	0	0.023	0.009	0.017	42.43275;-76.49812
7/31/2019 16:51			0	0.046	0.011	0	0.014	0.009	0.016	
7/31/2019 16:52			0	0.046	0.012	0	0.029	0.009	0.016	
7/31/2019 16:53			0	0.046	0.013	0	0.021	0.009	0.016	
7/31/2019 16:54			0	0.046	0.014	0	0.005	0.009	0.016	
7/31/2019 16:55	12.4	99.2	0	0.046	0.014	0	0.012	0.009	0.016	42.43277;-76.49815
7/31/2019 16:56			0	0.048	0.016	0	0.012	0.009	0.016	
7/31/2019 16:57			0	0.048	0.017	0	0.029	0.009	0.015	
7/31/2019 16:58			0	0.048	0.018	0	0.027	0.009	0.015	
7/31/2019 16:59			0	0.048	0.019	0	0.02	0.009	0.037	
7/31/2019 17:00	12.4	101.2	0	0.048	0.018	0	0.01	0.009	0.031	42.43257;-76.49812
7/31/2019 17:01			0	0.048	0.019	0	0.022	0.009	0.035	
7/31/2019 17:02			0	0.048	0.02	0	0.018	0.009	0.016	
7/31/2019 17:03			0	0.048	0.02	0	0.005	0.009	0.016	
7/31/2019 17:04			0	0.048	0.019	0	0.017	0.009	0.017	
7/31/2019 17:05	12.4	99.2	0	0.052	0.019	0	0.009	0.009	0.016	42.43259;-76.49814
7/31/2019 17:06			0	0.052	0.018	0	0.014	0.009	0.017	
7/31/2019 17:07			0	0.052	0.017	0	0.011	0.009	0.016	
7/31/2019 17:08			0	0.052	0.016	0.001	0.045	0.009	0.016	
7/31/2019 17:09			0	0.052	0.017	0.001	0.024	0.009	0.017	
7/31/2019 17:10	12.4	103.2	0	0.054	0.018	0.001	0.043	0.009	0.018	42.4326;-76.49815
7/31/2019 17:11			0	0.059	0.019	0.001	0.023	0.009	0.017	
7/31/2019 17:12			0	0.059	0.02	0.001	0.033	0.01	0.016	
7/31/2019 17:13			0	0.059	0.02	0.001	0.032	0.01	0.016	
7/31/2019 17:14			0	0.059	0.021	0.001	0.027	0.01	0.015	
7/31/2019 17:15	12.4	112.4	0	0.059	0.023	0.001	0.024	0.01	0.016	42.43261;-76.49815
7/31/2019 17:16			0	0.059	0.023	0.001	0.019	0.01	0.015	
7/31/2019 17:17			0	0.059	0.023	0.001	0.014	0.01	0.016	
7/31/2019 17:18			0	0.059	0.024	0.001	0.038	0.01	0.016	
7/31/2019 17:19			0	0.059	0.025	0.001	0.017	0.01	0.022	
7/31/2019 17:20	12.4	102.2	0	0.059	0.024	0.001	0.002	0.01	0.018	42.43253;-76.4982
7/31/2019 17:21			0	0.059	0.023	0.001	0.016	0.01	0.016	
7/31/2019 17:22			0	0.059	0.023	0.001	0.01	0.01	0.016	
7/31/2019 17:23			0	0.059	0.022	0.001	0.011	0.01	0.016	
7/31/2019 17:24			0	0.059	0.021	0.001	0.001	0.01	0.016	
7/31/2019 17:25	12.4	105.3	0	0.059	0.019	0.001	0	0.01	0.016	42.4323;-76.49818
7/31/2019 17:26			0	0.059	0.016	0.001	0.005	0.01	0.017	
7/31/2019 17:27			0	0.059	0.015	0.001	0.001	0.01	0.02	
7/31/2019 17:28			0	0.059	0.013	0.001	0	0.01	0.016	
7/31/2019 17:29			0	0.059	0.011	0.001	0	0.01	0.024	
7/31/2019 17:30	12.4	102.2	0	0.059	0.008	0.001	0	0.01	0.017	42.43259;-76.49819
7/31/2019 17:31			0	0.059	0.007	0.001	0.007	0.01	0.016	
7/31/2019 17:32			0	0.059	0.005	0.001	0.001	0.01	0.016	
7/31/2019 17:33			0	0.059	0.004	0.001	0	0.01	0.016	
7/31/2019 17:34			0	0.059	0.003	0.001	0	0.01	0.016	
7/31/2019 17:35	12.4	101.2	0	0.059	0.002	0.001	0.007	0.01	0.016	42.43267;-76.49818
7/31/2019 17:36			0	0.059	0.003	0.001	0.014	0.01	0.015	
7/31/2019 17:37			0	0.059	0.003	0.001	0.003	0.01	0.015	
7/31/2019 17:38			0	0.059	0.003	0.001	0.013	0.01	0.015	
7/31/2019 17:39			0	0.059	0.003	0.001	0.009	0.01	0.014	
7/31/2019 17:40	12.4	100.2	0	0.059	0.003	0.001	0.008	0.01	0.016	42.43268;-76.49814
7/31/2019 17:41			0	0.059	0.004	0.001	0.019	0.011	0.015	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/31/2019 17:42			0	0.059	0.005	0.001	0.017	0.011	0.016	
7/31/2019 17:43			0	0.059	0.005	0.001	0.009	0.011	0.015	
7/31/2019 17:44			0	0.059	0.006	0.001	0.029	0.011	0.015	
7/31/2019 17:45	12.4	100.2	0	0.059	0.007	0.001	0.013	0.011	0.016	42.43261;-76.49815
7/31/2019 17:46			0	0.059	0.009	0.002	0.019	0.011	0.053	
7/31/2019 17:47			0	0.059	0.009	0.002	0.006	0.011	0.022	
7/31/2019 17:48			0	0.059	0.009	0.002	0.016	0.011	0.016	
7/31/2019 17:49			0	0.059	0.01	0.002	0.016	0.011	0.015	
7/31/2019 17:50	12.4	101.2	0	0.059	0.011	0.002	0.027	0.011	0.015	42.43261;-76.49818
7/31/2019 17:51			0	0.059	0.012	0.002	0.012	0.011	0.015	
7/31/2019 17:52			0	0.059	0.013	0.002	0.001	0.011	0.015	
7/31/2019 17:53			0	0.059	0.014	0.002	0.028	0.011	0.015	
7/31/2019 17:54			0	0.059	0.015	0.002	0.03	0.011	0.016	
7/31/2019 17:55	12.4	120.5	0	0.059	0.016	0.002	0.014	0.011	0.015	42.4326;-76.49816
7/31/2019 17:56			0	0.06	0.017	0.002	0.031	0.011	0.015	
7/31/2019 17:57			0	0.06	0.018	0.002	0.047	0.011	0.015	
7/31/2019 17:58			0	0.06	0.02	0.002	0.038	0.011	0.017	
7/31/2019 17:59			0	0.06	0.022	0.002	0.01	0.011	0.016	
7/31/2019 18:00	12.4	107.3	0	0.06	0.023	0.002	0.04	0.011	0.015	42.43261;-76.49812
7/31/2019 18:01			0	0.06	0.024	0.002	0.039	0.011	0.015	
7/31/2019 18:02			0	0.06	0.026	0.002	0.041	0.011	0.015	
7/31/2019 18:03			0	0.06	0.028	0.002	0.033	0.011	0.015	
7/31/2019 18:04			0	0.06	0.029	0.003	0.029	0.011	0.015	
7/31/2019 18:05	12.4	102.2	0	0.06	0.03	0.003	0.034	0.011	0.015	42.4326;-76.49821
7/31/2019 18:06			0	0.06	0.03	0.003	0.049	0.011	0.015	
7/31/2019 18:07			0	0.06	0.031	0.003	0.029	0.011	0.015	
7/31/2019 18:08			0	0.06	0.032	0.003	0.042	0.011	0.015	
7/31/2019 18:09			0	0.06	0.033	0.003	0.035	0.012	0.014	
7/31/2019 18:10	12.4	104.3	0	0.06	0.034	0.003	0.029	0.012	0.014	42.43263;-76.4982
7/31/2019 18:11			0	0.06	0.034	0.003	0.026	0.012	0.014	
7/31/2019 18:12			0	0.06	0.034	0.003	0.017	0.012	0.014	
7/31/2019 18:13			0	0.06	0.033	0.003	0.051	0.012	0.015	
7/31/2019 18:14			0	0.06	0.034	0.003	0.048	0.012	0.014	
7/31/2019 18:15	12.4	102.2	0	0.06	0.034	0.003	0.05	0.012	0.014	42.43259;-76.49817
7/31/2019 18:16			0	0.061	0.035	0.003	0.056	0.012	0.013	
7/31/2019 18:17			0	0.061	0.036	0.004	0.052	0.012	0.014	
7/31/2019 18:18			0	0.061	0.037	0.004	0.045	0.012	0.013	
7/31/2019 18:19			0	0.061	0.038	0.004	0.05	0.012	0.014	
7/31/2019 18:20	12.4	101.2	0	0.061	0.04	0.004	0.041	0.012	0.013	42.43256;-76.4981
7/31/2019 18:21			0	0.065	0.041	0.004	0.048	0.012	0.013	
7/31/2019 18:22			0	0.065	0.041	0.004	0.053	0.012	0.013	
7/31/2019 18:23			0	0.065	0.042	0.004	0.05	0.012	0.013	
7/31/2019 18:24			0	0.065	0.043	0.004	0.048	0.012	0.014	
7/31/2019 18:25	12.4	101.2	0	0.065	0.044	0.004	0.041	0.012	0.014	42.43259;-76.49815
7/31/2019 18:26			0	0.065	0.045	0.004	0.044	0.012	0.013	
7/31/2019 18:27			0	0.065	0.046	0.005	0.058	0.012	0.014	
7/31/2019 18:28			0	0.065	0.048	0.005	0.044	0.012	0.014	
7/31/2019 18:29			0	0.065	0.048	0.005	0.063	0.012	0.014	
7/31/2019 18:30	12.4	101.2	0	0.073	0.048	0.005	0.069	0.012	0.014	42.43264;-76.49812
7/31/2019 18:31			0	0.073	0.048	0.005	0.054	0.012	0.013	
7/31/2019 18:32			0	0.073	0.049	0.005	0.06	0.012	0.016	
7/31/2019 18:33			0	0.073	0.049	0.005	0.061	0.012	0.013	
7/31/2019 18:34			0	0.073	0.05	0.005	0.051	0.012	0.013	
7/31/2019 18:35	12.4	103.2	0	0.073	0.049	0.005	0.059	0.012	0.013	42.43261;-76.49813
7/31/2019 18:36			0	0.073	0.05	0.006	0.051	0.012	0.013	
7/31/2019 18:37			0	0.073	0.05	0.006	0.044	0.012	0.014	
7/31/2019 18:38			0	0.073	0.051	0.006	0.065	0.012	0.013	
7/31/2019 18:39			0	0.075	0.052	0.006	0.06	0.012	0.013	
7/31/2019 18:40	12.3	101.2	0	0.075	0.052	0.006	0.059	0.012	0.016	42.43261;-76.49815
7/31/2019 18:41			0	0.075	0.054	0.006	0.07	0.012	0.013	
7/31/2019 18:42			0	0.075	0.055	0.006	0.059	0.012	0.013	
7/31/2019 18:43			0	0.081	0.056	0.006	0.072	0.012	0.013	
7/31/2019 18:44			0	0.084	0.057	0.007	0.068	0.013	0.013	
7/31/2019 18:45	12.3	114.4	0	0.084	0.059	0.007	0.072	0.013	0.013	42.43261;-76.49813
7/31/2019 18:46			0	0.084	0.059	0.007	0.06	0.013	0.013	
7/31/2019 18:47			0	0.084	0.06	0.007	0.075	0.013	0.013	
7/31/2019 18:48			0	0.084	0.061	0.007	0.075	0.013	0.013	
7/31/2019 18:49			0	0.084	0.062	0.007	0.067	0.013	0.013	
7/31/2019 18:50	12.3	119.4	0	0.084	0.064	0.007	0.072	0.013	0.012	42.43264;-76.49817
7/31/2019 18:51			0	0.084	0.064	0.008	0.077	0.013	0.012	
7/31/2019 18:52			0	0.084	0.066	0.008	0.071	0.013	0.012	
7/31/2019 18:53			0	0.085	0.068	0.008	0.071	0.013	0.012	
7/31/2019 18:54			0	0.085	0.068	0.008	0.081	0.013	0.012	
7/31/2019 18:55	12.3	101.2	0	0.085	0.069	0.008	0.059	0.013	0.012	42.43266;-76.49818
7/31/2019 18:56			0	0.085	0.069	0.008	0.063	0.013	0.013	
7/31/2019 18:57			0	0.085	0.069	0.008	0.07	0.013	0.013	
7/31/2019 18:58			0	0.085	0.069	0.009	0.078	0.013	0.012	
7/31/2019 18:59			0	0.085	0.069	0.009	0.067	0.013	0.011	
7/31/2019 19:00	12.3	101.2	0	0.085	0.068	0.009	0.061	0.013	0.012	42.43265;-76.49816
7/31/2019 19:01			0	0.085	0.068	0.009	0.07	0.013	0.011	
7/31/2019 19:02			0	0.085	0.068	0.009	0.06	0.013	0.011	
7/31/2019 19:03			0	0.085	0.068	0.009	0.064	0.013	0.012	
7/31/2019 19:04			0	0.085	0.067	0.009	0.065	0.013	0.012	
7/31/2019 19:05	12.3	104.3	0	0.085	0.067	0.01	0.067	0.013	0.015	42.43264;-76.49815
7/31/2019 19:06			0	0.085	0.067	0.01	0.063	0.013	0.012	
7/31/2019 19:07			0	0.085	0.066	0.01	0.071	0.013	0.011	
7/31/2019 19:08			0	0.085	0.065	0.01	0.063	0.013	0.012	
7/31/2019 19:09			0	0.085	0.065	0.01	0.055	0.013	0.012	
7/31/2019 19:10	12.3	101.2	0	0.085	0.064	0.01	0.05	0.013	0.012	42.43265;-76.49815
7/31/2019 19:11			0	0.085	0.063	0.01	0.064	0.013	0.012	
7/31/2019 19:12			0	0.085	0.063	0.01	0.069	0.013	0.012	
7/31/2019 19:13			0	0.085	0.063	0.011	0.06	0.013	0.013	
7/31/2019 19:14			0	0.085	0.063	0.011	0.061	0.013	0.012	
7/31/2019 19:15	12.3	102.2	0	0.085	0.063	0.011	0.064	0.013	0.013	42.43265;-76.49814
7/31/2019 19:16			0	0.085	0.063	0.011	0.061	0.013	0.011	
7/31/2019 19:17			0	0.085	0.062	0.011	0.061	0.013	0.012	
7/31/2019 19:18			0	0.085	0.062	0.011	0.065	0.013	0.012	
7/31/2019 19:19			0	0.085	0.062	0.011	0.057	0.013	0.012	
7/31/2019 19:20	12.3	112.4	0	0.085	0.062	0.011	0.062	0.013	0.012	42.43279;-76.49818
7/31/2019 19:21			0	0.085	0.061	0.012	0.053	0.013	0.012	
7/31/2019 19:22			0	0.085	0.061	0.012	0.063	0.013	0.011	
7/31/2019 19:23			0	0.085	0.061	0.012	0.065	0.013	0.011	
7/31/2019 19:24			0	0.085	0.061	0.012	0.056	0.014	0.011	
7/31/2019 19:25	12.3	102.2	0	0.085	0.062	0.012	0.071	0.014	0.012	42.43267;-76.49815
7/31/2019 19:26			0	0.085	0.062	0.012	0.058	0.014	0.011	
7/31/2019 19:27			0	0.085	0.062	0.012	0.062	0.014	0.012	
7/31/2019 19:28			0	0.085	0.061	0.012	0.064	0.014	0.011	
7/31/2019 19:29			0	0.085	0.061	0.013	0.052	0.014	0.012	
7/31/2019 19:30	12.3	113.4	0	0.085	0.06	0.013	0.05	0.014	0.012	42.43266;-76.49814

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
7/31/2019 19:31			0	0.085	0.059	0.013	0.035	0.014	0.012	
7/31/2019 19:32			0	0.085	0.058	0.013	0.055	0.014	0.012	
7/31/2019 19:33			0	0.085	0.058	0.013	0.045	0.014	0.012	
7/31/2019 19:34			0	0.085	0.057	0.013	0.053	0.014	0.012	
7/31/2019 19:35	12.3	101.2	0	0.085	0.056	0.013	0.043	0.014	0.012	42.43257;-76.49812
7/31/2019 19:36			0	0.085	0.055	0.013	0.047	0.014	0.012	
7/31/2019 19:37			0	0.085	0.054	0.013	0.032	0.014	0.011	
7/31/2019 19:38			0	0.085	0.052	0.013	0.042	0.014	0.012	
7/31/2019 19:39			0	0.085	0.051	0.014	0.041	0.014	0.012	
7/31/2019 19:40	12.3	102.2	0	0.085	0.049	0.014	0.038	0.014	0.012	42.43265;-76.49812
7/31/2019 19:41			0	0.085	0.047	0.014	0.032	0.014	0.011	
7/31/2019 19:42			0	0.085	0.045	0.014	0.035	0.014	0.011	
7/31/2019 19:43			0	0.085	0.043	0.014	0.029	0.014	0.011	
7/31/2019 19:44			0	0.085	0.041	0.014	0.02	0.014	0.012	
7/31/2019 19:45	12.3	101.2	0	0.085	0.039	0.014	0.018	0.014	0.011	42.43257;-76.49812
7/31/2019 19:46			0	0.085	0.037	0.014	0.022	0.014	0.012	
7/31/2019 19:47			0	0.085	0.036	0.014	0.017	0.014	0.012	
7/31/2019 19:48			0	0.085	0.034	0.014	0.019	0.014	0.012	
7/31/2019 19:49			0	0.085	0.031	0.014	0.009	0.014	0.012	
7/31/2019 19:50	12.3	113.4	0	0.085	0.029	0.014	0.024	0.014	0.011	42.43269;-76.49815
7/31/2019 19:51			0	0.085	0.026	0.014	0.016	0.014	0.011	
7/31/2019 19:52			0	0.085	0.024	0.014	0	0.014	0.011	
7/31/2019 19:53			0	0.085	0.022	0.014	0.016	0.014	0.011	
7/31/2019 19:54			0	0.085	0.019	0.014	0.003	0.014	0.011	
7/31/2019 19:55	12.3	104.3	0	0.085	0.017	0.014	0.001	0.014	0.01	42.43274;-76.49817
7/31/2019 19:56			0	0.085	0.015	0.014	0.011	0.014	0.011	
7/31/2019 19:57			0	0.085	0.014	0.014	0.006	0.014	0.011	
7/31/2019 19:58			0	0.085	0.012	0.014	0.006	0.014	0.011	
7/31/2019 19:59			0	0.085	0.01	0.014	0.009	0.014	0.011	
7/31/2019 20:00	12.3	101.2	0	0.085	0.009	0.014	0.008	0.014	0.011	42.43269;-76.49815
7/31/2019 20:01			0	0.085	0.008	0.014	0.009	0.014	0.011	
7/31/2019 20:02			0	0.085	0.007	0.014	0	0.014	0.01	
7/31/2019 20:03			0	0.085	0.006	0.014	0.002	0.014	0.011	
7/31/2019 20:04			0	0.085	0.005	0.014	0	0.014	0.011	
7/31/2019 20:05	12.3	103.2	0	0.085	0.005	0.014	0	0.014	0.011	42.43271;-76.49818
7/31/2019 20:06			0	0.085	0.004	0.014	0	0.014	0.011	
7/31/2019 20:07			0	0.085	0.004	0.014	0	0.015	0.011	
7/31/2019 20:08			0	0.085	0.003	0.014	0	0.015	0.011	
7/31/2019 20:09			0	0.085	0.003	0.014	0	0.015	0.011	
7/31/2019 20:10	12.3	101.2	0	0.085	0.002	0.014	0	0.015	0.037	42.43268;-76.49819
7/31/2019 20:11			0	0.085	0.002	0.014	0	0.015	0.022	
7/31/2019 20:12			0	0.085	0.002	0.014	0	0.015	0.011	
7/31/2019 20:13			0	0.085	0.001	0.014	0	0.015	0.011	
7/31/2019 20:14			0	0.085	0.001	0.014	0	0.015	0.011	
7/31/2019 20:15	12.3	100.2	0	0.085	0.001	0.014	0	0.015	0.011	42.43269;-76.49815
7/31/2019 20:16			0	0.085	0	0.014	0	0.015	0.011	
7/31/2019 20:17			0	0.085	0	0.014	0	0.015	0.011	
7/31/2019 20:18			0	0.085	0	0.014	0	0.015	0.011	
7/31/2019 20:19			0	0.085	0	0.014	0	0.015	0.011	
7/31/2019 20:20	12.3	111.3	0	0.085	0	0.014	0	0.015	0.011	42.4327;-76.49818
7/31/2019 20:21			0	0.085	0	0.014	0	0.015	0.011	
7/31/2019 20:22			0	0.085	0	0.014	0	0.015	0.011	
7/31/2019 20:23			0	0.085	0	0.014	0	0.015	0.011	
7/31/2019 20:24			0	0.085	0	0.014	0	0.015	0.037	
7/31/2019 20:25	12.3	101.2	0	0.085	0	0.014	0	0.015	0.025	42.43274;-76.49817
7/31/2019 20:26			0	0.085	0	0.014	0	0.015	0.011	
7/31/2019 20:27			0	0.085	0	0.014	0	0.015	0.011	
7/31/2019 20:28			0	0.085	0	0.014	0	0.015	0.011	
7/31/2019 20:29			0	0.085	0	0.014	0	0.015	0.011	
7/31/2019 20:30	12.3	102.2	0	0.085	0	0.014	0	0.015	0.012	42.4327;-76.49813
7/31/2019 20:31			0	0.085	0	0.014	0	0.015	0.011	
7/31/2019 20:32									0.014	
8/1/2019 12:11	12.6	124.5								
8/1/2019 12:12	12.1	105.3								
8/1/2019 12:13								0		
8/1/2019 12:14								0	0.026	
8/1/2019 12:15	12.5	88.1						0	0.023	42.43271;-76.49805
8/1/2019 12:16								0	0.022	
8/1/2019 12:17								0	0.022	
8/1/2019 12:18								0	0.023	
8/1/2019 12:19								0	0.029	
8/1/2019 12:20	12.5	89.1						0	0.022	42.43271;-76.49805
8/1/2019 12:21								0	0.026	
8/1/2019 12:22								0	0.022	
8/1/2019 12:23								0	0.034	
8/1/2019 12:24								0	0.041	
8/1/2019 12:25	12.5	87						0	0.021	42.43271;-76.49805
8/1/2019 12:26								0	0.022	
8/1/2019 12:27								0	0.024	
8/1/2019 12:28								0	0.022	
8/1/2019 12:29								0.001	0.029	
8/1/2019 12:30	12.5	92.1						0.001	0.056	42.43271;-76.49805
8/1/2019 12:31								0.001	0.021	
8/1/2019 12:32								0.001	0.053	
8/1/2019 12:33								0.001	0.043	
8/1/2019 12:34								0.001	0.024	
8/1/2019 12:35	12.5	88.1						0.001	0.024	42.43271;-76.49805
8/1/2019 12:36								0.001	0.024	
8/1/2019 12:37								0.001	0.023	
8/1/2019 12:38								0.001	0.023	
8/1/2019 12:39								0.001	0.022	
8/1/2019 12:40	12.5	86						0.002	0.021	42.43271;-76.49805
8/1/2019 12:41								0.002	0.022	
8/1/2019 12:42								0.002	0.025	
8/1/2019 12:42	12.5	113.4								
8/1/2019 12:44								0	0.028	
8/1/2019 12:45	12.5	91.1						0	0.03	42.43271;-76.49805
8/1/2019 12:46								0	0.022	
8/1/2019 12:47								0	0.028	
8/1/2019 12:48								0	0.024	
8/1/2019 12:49								0	0.022	
8/1/2019 12:50	12.5	89.1						0	0.023	42.43271;-76.49805
8/1/2019 12:51								0	0.053	
8/1/2019 12:52								0	0.044	
8/1/2019 12:53								0	0.167	
8/1/2019 12:54								0	0.034	
8/1/2019 12:55	12.5	87						0	0.032	42.43271;-76.49805
8/1/2019 12:56								0	0.049	
8/1/2019 12:57								0	0.023	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
8/1/2019 12:58								0	0.07	
8/1/2019 12:59								0.002	0.232	
8/1/2019 13:00	12.5	87						0.002	0.091	42.43271;-76.49805
8/1/2019 13:01								0.002	0.021	
8/1/2019 13:02								0.002	0.02	
8/1/2019 13:03								0.002	0.019	
8/1/2019 13:04								0.002	0.022	
8/1/2019 13:05	12.5	104.3						0.002	0.028	42.43271;-76.49805
8/1/2019 13:06								0.002	0.034	
8/1/2019 13:07								0.003	0.118	
8/1/2019 13:08								0.003	0.032	
8/1/2019 13:09								0.003	0.073	
8/1/2019 13:10	12.5	87						0.003	0.039	42.43271;-76.49805
8/1/2019 13:11								0.003	0.022	
8/1/2019 13:12								0.003	0.019	
8/1/2019 13:13								0.003	0.018	
8/1/2019 13:14								0.003	0.018	
8/1/2019 13:15	12.5	87						0.003	0.018	42.43271;-76.49805
8/1/2019 13:16								0.003	0.018	
8/1/2019 13:17								0.003	0.018	
8/1/2019 13:18								0.003	0.02	
8/1/2019 13:19								0.003	0.018	
8/1/2019 13:20	12.4	87						0.003	0.017	42.43271;-76.49805
8/1/2019 13:21								0.003	0.019	
8/1/2019 13:22								0.003	0.021	
8/1/2019 13:23								0.003	0.018	
8/1/2019 13:24								0.003	0.019	
8/1/2019 13:25	12.4	89.1						0.003	0.017	42.43271;-76.49805
8/1/2019 13:26								0.003	0.016	
8/1/2019 13:27								0.004	0.017	
8/1/2019 13:28								0.004	0.017	
8/1/2019 13:29								0.004	0.018	
8/1/2019 13:30	12.4	88.1						0.004	0.017	42.43271;-76.49805
8/1/2019 13:31								0.004	0.017	
8/1/2019 13:32								0.004	0.017	
8/1/2019 13:33								0.004	0.018	
8/1/2019 13:34								0.004	0.017	
8/1/2019 13:35	12.3	87						0.004	0.018	42.43271;-76.49805
8/1/2019 13:36								0.004	0.017	
8/1/2019 13:37								0.004	0.018	
8/1/2019 13:38								0.004	0.017	
8/1/2019 13:39								0.004	0.017	
8/1/2019 13:40	12.3	88.1						0.004	0.018	42.43271;-76.49805
8/1/2019 13:41								0.004	0.017	
8/1/2019 13:41	12.3	118.4								
8/1/2019 13:41										42.4331617;-76.49750449999999
8/1/2019 13:43								0	0.016	
8/1/2019 13:44								0	0.017	
8/1/2019 13:45	12.2	110.3						0	0.017	
8/1/2019 13:45										42.43271;-76.49805
8/1/2019 13:46								0	0.017	
8/1/2019 13:47								0	0.017	
8/1/2019 13:48								0	0.017	
8/1/2019 13:49								0	0.017	
8/1/2019 13:50	12.3	89.1						0	0.027	42.43271;-76.49805
8/1/2019 13:51								0	0.018	
8/1/2019 13:52								0	0.021	
8/1/2019 13:53								0	0.022	
8/1/2019 13:54								0	0.017	
8/1/2019 13:55	12.3	88.1						0	0.017	42.43271;-76.49805
8/1/2019 13:56								0	0.017	
8/1/2019 13:57								0	0.017	
8/1/2019 13:58								0.001	0.017	
8/1/2019 13:59								0.001	0.017	
8/1/2019 14:00	12.3	87						0.001	0.016	42.43271;-76.49805
8/1/2019 14:01								0.001	0.017	
8/1/2019 14:02								0.001	0.017	
8/1/2019 14:03								0.001	0.016	
8/1/2019 14:04								0.001	0.016	
8/1/2019 14:05	12.3	91.1						0.001	0.016	
8/1/2019 14:05										42.43271;-76.49805
8/1/2019 14:05	12.2	114.4								
8/1/2019 14:07								0.001	0.016	
8/1/2019 14:08								0	0.017	
8/1/2019 14:09								0	0.057	
8/1/2019 14:10	12.3	88.1						0	0.09	42.43271;-76.49805
8/1/2019 14:11								0	0.02	
8/1/2019 14:12								0	0.03	
8/1/2019 14:13								0	0.028	
8/1/2019 14:14								0	0.034	
8/1/2019 14:15	12.2	89.1						0	0.022	
8/1/2019 14:15										42.43271;-76.49805
8/1/2019 14:16								0	0.027	
8/1/2019 14:17								0	0.218	
8/1/2019 14:18								0	0.02	
8/1/2019 14:19								0	0.017	
8/1/2019 14:20	12.2	89.1						0	0.018	42.43271;-76.49805
8/1/2019 14:21								0	0.016	
8/1/2019 14:22								0.001	0.017	
8/1/2019 14:23								0.001	0.017	
8/1/2019 14:24								0.001	0.017	
8/1/2019 14:25	12.2	89.1						0.001	0.018	42.43271;-76.49805
8/1/2019 14:26								0.001	0.019	
8/1/2019 14:27								0.001	0.018	
8/1/2019 14:28								0.002	0.018	
8/1/2019 14:29								0.002	0.018	
8/1/2019 14:30	12.2	89.1						0.002	0.018	
8/1/2019 14:30										42.43271;-76.49805
8/1/2019 14:31								0.002	0.018	
8/1/2019 14:32								0.002	0.017	
8/1/2019 14:33								0.002	0.126	
8/1/2019 14:34								0.002	0.018	
8/1/2019 14:35	12.4	87						0.002	0.017	42.43271;-76.49805
8/1/2019 14:36								0.002	0.017	
8/1/2019 14:37								0.002	0.059	
8/1/2019 14:38								0.002	0.016	
8/1/2019 14:39								0.002	0.016	
8/1/2019 14:40	12.3	89.1						0.002	0.02	42.43271;-76.49805
8/1/2019 14:41								0.002	0.017	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
8/1/2019 14:42								0.002	0.016	
8/1/2019 14:43								0.002	0.016	
8/1/2019 14:44								0.002	0.016	
8/1/2019 14:45	12.3	89.1						0.002	0.016	42.43271;-76.49805
8/1/2019 14:46								0.002	0.017	
8/1/2019 14:47								0.003	0.017	
8/1/2019 14:48								0.003	0.016	
8/1/2019 14:49								0.003	0.016	
8/1/2019 14:50	12.3	114.4						0.003	0.018	42.43271;-76.49805
8/1/2019 14:51								0.003	0.016	
8/1/2019 14:52								0.003	0.015	
8/1/2019 14:53								0.003	0.015	
8/1/2019 14:54								0.003	0.014	
8/1/2019 14:55	12.3	89.1						0.003	0.014	42.43271;-76.49805
8/1/2019 14:56								0.003	0.014	
8/1/2019 14:57								0.003	0.014	
8/1/2019 14:58								0.003	0.196	
8/1/2019 14:59								0.003	0.046	
8/1/2019 15:00	12.3	90.1						0.003	0.017	42.43271;-76.49805
8/1/2019 15:01								0.003	0.014	
8/1/2019 15:02								0.003	0.013	
8/1/2019 15:03								0.003	0.013	
8/1/2019 15:04								0.003	0.013	
8/1/2019 15:05	12.3	91.1						0.004	0.014	42.43271;-76.49805
8/1/2019 15:06								0.004	0.056	
8/1/2019 15:07								0.004	0.013	
8/1/2019 15:08								0.004	0.028	
8/1/2019 15:09								0.004	0.014	
8/1/2019 15:10	12.3	106.3						0.004	0.014	42.43271;-76.49805
8/1/2019 15:11								0.004	0.016	
8/1/2019 15:12								0.004	0.02	
8/1/2019 15:13								0.004	0.02	
8/1/2019 15:14								0.004	0.017	
8/1/2019 15:15	12.3	125.5						0.004	0.017	42.43271;-76.49805
8/1/2019 15:16								0.004	0.016	
8/1/2019 15:17								0.004	0.114	
8/1/2019 15:18								0.004	0.016	
8/1/2019 15:19								0.004	0.014	
8/1/2019 15:20	12.3	95.1						0.004	0.015	42.43271;-76.49805
8/1/2019 15:21								0.004	0.014	
8/1/2019 15:22								0.004	0.014	
8/1/2019 15:23								0.004	0.015	
8/1/2019 15:24								0.004	0.016	
8/1/2019 15:25	12.3	89.1						0.004	0.017	42.43271;-76.49805
8/1/2019 15:26								0.005	0.026	
8/1/2019 15:27								0.005	0.014	
8/1/2019 15:28								0.005	0.014	
8/1/2019 15:29								0.005	0.014	
8/1/2019 15:30	12.3	89.1						0.005	0.014	
8/1/2019 15:30										42.43271;-76.49805
8/1/2019 15:31								0.005	0.013	
8/1/2019 15:32								0.005	0.014	
8/1/2019 15:33								0.005	0.014	
8/1/2019 15:34								0.005	0.035	
8/1/2019 15:35	12.3	99.2						0.005	0.04	42.43271;-76.49805
8/1/2019 15:36								0.005	0.015	
8/1/2019 15:37								0.005	0.014	
8/1/2019 15:38								0.005	0.013	
8/1/2019 15:39								0.005	0.016	
8/1/2019 15:40	12.2	127.5						0.005	0.014	42.43271;-76.49805
8/1/2019 15:41								0.005	0.014	
8/1/2019 15:42								0.005	0.014	
8/1/2019 15:43								0.005	0.014	
8/1/2019 15:44								0.005	0.013	
8/1/2019 15:45	12.3	91.1						0.005	0.027	
8/1/2019 15:45										42.43271;-76.49805
8/1/2019 15:46								0.005	0.014	
8/1/2019 15:47								0.005	0.013	
8/1/2019 15:48								0.005	0.013	
8/1/2019 15:49								0.005	0.013	
8/1/2019 15:50	12.3	95.1						0.005	0.013	42.43271;-76.49805
8/1/2019 15:51								0.005	0.013	
8/1/2019 15:52								0.005	0.013	
8/1/2019 15:53								0.005	0.013	
8/1/2019 15:54								0.005	0.014	
8/1/2019 15:55	12.3	91.1						0.005	0.013	42.43271;-76.49805
8/1/2019 15:56								0.006	0.014	
8/1/2019 15:57								0.006	0.013	
8/1/2019 15:58								0.006	0.013	
8/1/2019 15:59								0.006	0.013	
8/1/2019 16:00	12.3	89.1						0.006	0.014	
8/1/2019 16:00										42.43271;-76.49805
8/1/2019 16:01								0.006	0.014	
8/1/2019 16:02								0.006	0.016	
8/1/2019 16:03								0.006	0.013	
8/1/2019 16:04								0.006	0.014	
8/1/2019 16:05	12.2	128.6						0.006	0.014	42.43271;-76.49805
8/1/2019 16:06								0.006	0.014	
8/1/2019 16:07								0.006	0.014	
8/1/2019 16:08								0.006	0.017	
8/1/2019 16:09								0.006	0.015	
8/1/2019 16:10	12.2	126.5						0.006	0.015	42.43271;-76.49805
8/1/2019 16:11								0.006	0.015	
8/1/2019 16:12								0.006	0.015	
8/1/2019 16:13								0.006	0.027	
8/1/2019 16:14								0.006	0.039	
8/1/2019 16:15	12.3	90.1						0.006	0.03	
8/1/2019 16:15										42.43271;-76.49805
8/1/2019 16:16								0.006	0.018	
8/1/2019 16:17								0.006	0.022	
8/1/2019 16:18								0.006	0.016	
8/1/2019 16:19								0.006	0.017	
8/1/2019 16:20	12.3	90.1						0.006	0.025	42.43271;-76.49805
8/1/2019 16:21								0.006	0.034	
8/1/2019 16:22								0.006	0.016	
8/1/2019 16:23								0.007	0.015	
8/1/2019 16:24								0.007	0.016	
8/1/2019 16:25	12.3	89.1						0.007	0.019	42.43271;-76.49805
8/1/2019 16:26								0.007	0.017	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
8/1/2019 16:27								0.007	0.016	
8/1/2019 16:28								0.007	0.013	
8/1/2019 16:29								0.007	0.012	
8/1/2019 16:30	12.3	91.1						0.007	0.013	
8/1/2019 16:30										42.43271;-76.49805
8/1/2019 16:31								0.007	0.013	
8/1/2019 16:32								0.007	0.012	
8/1/2019 16:33								0.007	0.012	
8/1/2019 16:34								0.007	0.014	
8/1/2019 16:35	12.3	90.1						0.007	0.013	42.43271;-76.49805
8/1/2019 16:36								0.007	0.012	
8/1/2019 16:37								0.007	0.011	
8/1/2019 16:38								0.007	0.011	
8/1/2019 16:39								0.007	0.011	
8/1/2019 16:40	12.3	90.1						0.007	0.011	42.43271;-76.49805
8/1/2019 16:41								0.007	0.011	
8/1/2019 16:42								0.007	0.013	
8/1/2019 16:43								0.007	0.014	
8/1/2019 16:44								0.007	0.014	
8/1/2019 16:45	12.3	91.1						0.007	0.015	
8/1/2019 16:45										42.43271;-76.49805
8/1/2019 16:46								0.007	0.018	
8/1/2019 16:47								0.007	0.017	
8/1/2019 16:48								0.007	0.017	
8/1/2019 16:49								0.007	0.016	
8/1/2019 16:50	12.3	95.1						0.007	0.015	42.43271;-76.49805
8/1/2019 16:51								0.007	0.016	
8/1/2019 16:52								0.007	0.015	
8/1/2019 16:53								0.007	0.016	
8/1/2019 16:54								0.007	0.02	
8/1/2019 16:55	12.3	95.1						0.007	0.017	42.43271;-76.49805
8/1/2019 16:56								0.008	0.018	
8/1/2019 16:57								0.008	0.017	
8/1/2019 16:58								0.008	0.016	
8/1/2019 16:59								0.008	0.017	
8/1/2019 17:00	12.3	91.1						0.008	0.017	42.43271;-76.49805
8/1/2019 17:01								0.008	0.018	
8/1/2019 17:02								0.008	0.016	
8/1/2019 17:03								0.008	0.016	
8/1/2019 17:04								0.008	0.015	
8/1/2019 17:05	12.3	109.3						0.008	0.015	42.43271;-76.49805
8/1/2019 17:06								0.008	0.027	
8/1/2019 17:07								0.008	0.02	
8/1/2019 17:08								0.008	0.016	
8/1/2019 17:09								0.008	0.015	
8/1/2019 17:10	12.3	91.1						0.008	0.015	42.43271;-76.49805
8/1/2019 17:11								0.008	0.015	
8/1/2019 17:12								0.008	0.015	
8/1/2019 17:13								0.008	0.015	
8/1/2019 17:14								0.008	0.02	
8/1/2019 17:15	12.3	92.1						0.008	0.019	42.43271;-76.49805
8/1/2019 17:16								0.008	0.017	
8/1/2019 17:17								0.008	0.021	
8/1/2019 17:18								0.008	0.048	
8/1/2019 17:19								0.008	0.015	
8/1/2019 17:20	12.2	89.1						0.008	0.016	42.43271;-76.49805
8/1/2019 17:21								0.008	0.015	
8/1/2019 17:22								0.009	0.015	
8/1/2019 17:23								0.009	0.02	
8/1/2019 17:24								0.009	0.019	
8/1/2019 17:25	12.3	90.1						0.009	0.019	42.43271;-76.49805
8/1/2019 17:26								0.009	0.017	
8/1/2019 17:27								0.009	0.015	
8/1/2019 17:28								0.009	0.021	
8/1/2019 17:29								0.009	0.018	
8/1/2019 17:30	12.2	109.3						0.009	0.018	42.43271;-76.49805
8/1/2019 17:31								0.009	0.016	
8/1/2019 17:32								0.009	0.015	
8/1/2019 17:33								0.009	0.015	
8/1/2019 17:34								0.009	0.014	
8/1/2019 17:35	12.2	128.6						0.009	0.017	42.43271;-76.49805
8/1/2019 17:36								0.009	0.119	
8/1/2019 17:37								0.009	0.015	
8/1/2019 17:38								0.009	0.016	
8/1/2019 17:39								0.009	0.015	
8/1/2019 17:40	12.6	87							0.018	42.43271;-76.49805
8/1/2019 17:45	12.6	86								42.43271;-76.49805
8/1/2019 17:50	12.6	86								42.43271;-76.49805
8/1/2019 17:55	12.4	87								42.43271;-76.49805
8/1/2019 18:00	12.6	87								
8/1/2019 18:00										42.43271;-76.49805
8/1/2019 18:05	12.6	85								42.43271;-76.49805
8/1/2019 18:10	12.6	87								42.43271;-76.49805
8/1/2019 18:15	12.5	85								42.43271;-76.49805
8/1/2019 18:20	12.6	87								42.43271;-76.49805
8/1/2019 18:25	12.6	88.1								42.43271;-76.49805
8/1/2019 18:30	12.6	106.3								
8/1/2019 18:30										42.43271;-76.49805
8/1/2019 18:35	12.6	86								42.43271;-76.49805
8/1/2019 18:40	12.6	104.3								42.43271;-76.49805
8/1/2019 18:45	12.6	87								42.43271;-76.49805
8/1/2019 18:50	12.6	85								42.43271;-76.49805
8/1/2019 18:55	12.6	86								42.43271;-76.49805
8/1/2019 19:00	12.6	86								
8/1/2019 19:00										42.43271;-76.49805
8/1/2019 19:05	12.6	85								42.43271;-76.49805
8/1/2019 19:10	12.6	86								42.43271;-76.49805
8/1/2019 19:15	12.6	104.3								42.43271;-76.49805
8/1/2019 19:20	12.6	104.3								42.43271;-76.49805
8/1/2019 19:25	12.6	86								42.43271;-76.49805
8/1/2019 19:30	12.6	86								42.43271;-76.49805
8/1/2019 19:35	12.6	87								42.43271;-76.49805
8/1/2019 19:40	12.6	85								42.43271;-76.49805
8/1/2019 19:45	12.6	86								42.43271;-76.49805
8/1/2019 19:50	12.6	86								42.43271;-76.49805
8/1/2019 19:55	12.6	87								42.43271;-76.49805
8/1/2019 20:00	12.6	86								42.43271;-76.49805
8/1/2019 20:05	12.6	85								42.43271;-76.49805
8/1/2019 20:10	12.6	92.1								42.43271;-76.49805

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	**Batt. Voltage (V)**	**Current (mA)**	**VOC (Low) (ppm)**	**VOC (Peak) (ppm)**	**VOC (STEL) (ppm)**	**VOC (TWA) (ppm)**	**VOC (ppm)**	**Total TWA (mg/m³)**	**Mass Conc. Total (mg/m³)**	**Location**
8/1/2019 20:15	12.6	122.5								42.43271;-76.49805
9/4/2019 17:00	12.5	134.6								
9/4/2019 17:01										42.432408699999996;-76.4970005
9/4/2019 17:02	12.5	111.3								
9/4/2019 17:03								0	0.036	
9/4/2019 17:04								0	0.034	
9/4/2019 17:05	12.2	89.1						0	0.033	
9/4/2019 17:06								0	0.032	
9/4/2019 17:07								0	0.033	
9/4/2019 17:08								0	0.033	
9/4/2019 17:09								0	0.032	
9/4/2019 17:10	12.3	88.1						0	0.032	
9/4/2019 17:11								0	0.033	
9/4/2019 17:12								0	0.033	
9/4/2019 17:13								0	0.032	
9/4/2019 17:14								0	0.033	
9/4/2019 17:15	12.3	89.1						0	0.032	
9/4/2019 17:16								0	0.031	
9/4/2019 17:17								0	0.031	
9/4/2019 17:18								0.001	0.032	
9/4/2019 17:19								0.001	0.032	
9/4/2019 17:20	12.3	89.1						0.001	0.031	
9/4/2019 17:21								0.001	0.031	
9/4/2019 17:22								0.001	0.032	
9/4/2019 17:23								0.001	0.027	
9/4/2019 17:24								0.001	0.032	
9/4/2019 17:25	12.2	89.1						0.001	0.031	
9/4/2019 17:26								0.002	0.031	
9/4/2019 17:27								0.002	0.03	
9/4/2019 17:28								0.002	0.03	
9/4/2019 17:29								0.002	0.031	
9/4/2019 17:30	12.2	87						0.002	0.031	
9/4/2019 17:31								0.002	0.031	
9/4/2019 17:32								0.002	0.03	
9/4/2019 17:33								0.002	0.03	
9/4/2019 17:34								0.002	0.03	
9/4/2019 17:35	12.2	88.1						0.002	0.03	
9/4/2019 17:36								0.002	0.03	
9/4/2019 17:37								0.002	0.03	
9/4/2019 17:38								0.002	0.03	
9/4/2019 17:39								0.002	0.029	
9/4/2019 17:40	12.2	89.1						0.002	0.029	
9/4/2019 17:41								0.002	0.029	
9/4/2019 17:42								0.003	0.029	
9/4/2019 17:43								0.003	0.03	
9/4/2019 17:44								0.003	0.029	
9/4/2019 17:45	12.2	90.1						0.003	0.029	
9/4/2019 17:46								0.003	0.028	
9/4/2019 17:47								0.003	0.028	
9/4/2019 17:48								0.003	0.028	
9/4/2019 17:49								0.003	0.028	
9/4/2019 17:50	12.2	90.1						0.003	0.028	
9/4/2019 17:51								0.003	0.029	
9/4/2019 17:52								0.003	0.027	
9/4/2019 17:53								0.003	0.027	
9/4/2019 17:54								0.003	0.027	
9/4/2019 17:55	12.2	87						0.003	0.028	
9/4/2019 17:56								0.003	0.027	
9/4/2019 17:57								0.003	0.027	
9/4/2019 17:58								0.003	0.027	
9/4/2019 17:59								0.004	0.027	
9/4/2019 18:00	12.2	89.1						0.004	0.027	
9/4/2019 18:01								0.004	0.027	
9/4/2019 18:02								0.004	0.027	
9/4/2019 18:03								0.004	0.027	
9/4/2019 18:04								0.004	0.027	
9/4/2019 18:05	12.2	88.1						0.004	0.024	
9/4/2019 18:06								0.004	0.032	
9/4/2019 18:07								0.004	0.025	
9/4/2019 18:08								0.004	0.024	
9/4/2019 18:09								0.004	0.021	
9/4/2019 18:10	12.2	89.1						0.004	0.023	
9/4/2019 18:11								0.004	0.023	
9/4/2019 18:12								0.004	0.024	
9/4/2019 18:13								0.004	0.025	
9/4/2019 18:14								0.004	0.02	
9/4/2019 18:15	12.2	90.1						0.004	0.024	
9/4/2019 18:16								0.004	0.024	
9/4/2019 18:17								0.004	0.025	
9/4/2019 18:18								0.005	0.025	
9/4/2019 18:19								0.005	0.024	
9/4/2019 18:20	12.2	89.1						0.005	0.019	
9/4/2019 18:21								0.005	0.021	
9/4/2019 18:22								0.005	0.019	
9/4/2019 18:23								0.005	0.024	
9/4/2019 18:24								0.005	0.024	
9/4/2019 18:25	12.2	88.1						0.005	0.024	
9/4/2019 18:26								0.005	0.024	
9/4/2019 18:27								0.005	0.021	
9/4/2019 18:28								0.005	0.023	
9/4/2019 18:29								0.005	0.023	
9/4/2019 18:30	12.2	88.1						0.005	0.023	
9/4/2019 18:31								0.005	0.024	
9/4/2019 18:32								0.005	0.024	
9/4/2019 18:33								0.005	0.024	
9/4/2019 18:34								0.005	0.024	
9/4/2019 18:35	12.2	89.1						0.005	0.027	
9/4/2019 18:36								0.005	0.029	
9/4/2019 18:37								0.005	0.025	
9/4/2019 18:38								0.005	0.024	
9/4/2019 18:39								0.006	0.021	
9/4/2019 18:40	12.2	90.1						0.006	0.021	
9/4/2019 18:41								0.006	0.023	
9/4/2019 18:42								0.006	0.023	
9/4/2019 18:43								0.006	0.023	
9/4/2019 18:44								0.006	0.023	
9/4/2019 18:45	12.2	88.1						0.006	0.024	
9/4/2019 18:46								0.006	0.024	
9/4/2019 18:47								0.006	0.025	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
9/4/2019 18:48								0.006	0.025	
9/4/2019 18:49								0.006	0.024	
9/4/2019 18:50	12.2	89.1						0.006	0.024	
9/4/2019 18:51								0.006	0.024	
9/4/2019 18:52								0.006	0.025	
9/4/2019 18:53								0.006	0.024	
9/4/2019 18:54								0.006	0.024	
9/4/2019 18:55	12.2	88.1						0.006	0.024	
9/4/2019 18:56								0.006	0.024	
9/4/2019 18:57								0.006	0.023	
9/4/2019 18:58								0.006	0.024	
9/4/2019 18:59								0.007	0.024	
9/4/2019 19:00	12.2	90.1						0.007	0.024	
9/4/2019 19:01								0.007	0.024	
9/4/2019 19:02								0.007	0.024	
9/4/2019 19:03								0.007	0.023	
9/4/2019 19:04								0.007	0.023	
9/4/2019 19:05	12.1	92.1						0.007	0.024	
9/4/2019 19:06								0.007	0.026	
9/4/2019 19:07								0.007	0.033	
9/4/2019 19:08								0.007	0.033	
9/4/2019 19:09								0.007	0.023	
9/4/2019 19:10	12.2	88.1						0.007	0.025	
9/4/2019 19:11								0.007	0.025	
9/4/2019 19:12								0.007	0.025	
9/4/2019 19:13								0.007	0.024	
9/4/2019 19:14								0.007	0.025	
9/4/2019 19:15	12.2	89.1						0.007	0.025	
9/4/2019 19:16								0.007	0.024	
9/4/2019 19:17								0.007	0.024	
9/4/2019 19:18								0.008	0.025	
9/4/2019 19:19								0.008	0.025	
9/4/2019 19:20	12.2	90.1						0.008	0.023	
9/4/2019 19:21								0.008	0.038	
9/4/2019 19:22								0.008	0.036	
9/4/2019 19:23								0.008	0.031	
9/4/2019 19:24								0.008	0.027	
9/4/2019 19:25	12.2	90.1						0.008	0.026	
9/4/2019 19:26								0.008	0.025	
9/4/2019 19:27								0.008	0.024	
9/4/2019 19:28								0.008	0.024	
9/4/2019 19:29								0.008	0.025	
9/4/2019 19:30	12.2	90.1						0.008	0.025	
9/4/2019 19:31								0.008	0.025	
9/4/2019 19:32								0.008	0.025	
9/4/2019 19:33								0.008	0.026	
9/4/2019 19:34								0.008	0.026	
9/4/2019 19:35	12.1	90.1						0.008	0.023	
9/4/2019 19:36								0.009	0.024	
9/4/2019 19:37								0.009	0.024	
9/4/2019 19:38								0.009	0.024	
9/4/2019 19:39								0.009	0.024	
9/4/2019 19:40	12.1	88.1						0.009	0.023	
9/4/2019 19:41								0.009	0.024	
9/4/2019 19:42								0.009	0.024	
9/4/2019 19:43								0.009	0.025	
9/4/2019 19:44								0.009	0.025	
9/4/2019 19:45	12.1	89.1						0.009	0.024	
9/4/2019 19:46								0.009	0.024	
9/4/2019 19:47								0.009	0.025	
9/4/2019 19:48								0.009	0.035	
9/4/2019 19:49								0.009	0.021	
9/4/2019 19:50	12.1	90.1						0.009	0.02	
9/4/2019 19:51								0.009	0.023	
9/4/2019 19:52								0.009	0.022	
9/4/2019 19:53								0.009	0.022	
9/4/2019 19:54								0.009	0.023	
9/4/2019 19:55	12.1	90.1						0.009	0.023	
9/4/2019 19:56								0.01	0.028	
9/4/2019 19:57								0.01	0.034	
9/4/2019 19:58								0.01	0.034	
9/4/2019 19:59								0.01	0.026	
9/4/2019 20:00	12.1	89.1						0.01	0.023	
9/4/2019 20:01								0.01	0.022	
9/4/2019 20:02								0.01	0.023	
9/4/2019 20:03								0.01	0.022	
9/4/2019 20:04								0.01	0.023	
9/4/2019 20:05	12.1	90.1						0.01	0.023	
9/4/2019 20:06								0.01	0.022	
9/4/2019 20:07								0.01	0.023	
9/4/2019 20:08								0.01	0.02	
9/4/2019 20:09								0.01	0.022	
9/4/2019 20:10	12.1	88.1						0.01	0.022	
9/4/2019 20:11								0.01	0.023	
9/4/2019 20:12								0.01	0.023	
9/4/2019 20:13								0.01	0.023	
9/4/2019 20:14								0.01	0.022	
9/4/2019 20:15	12.1	89.1						0.01	0.023	
9/4/2019 20:16								0.011	0.023	
9/4/2019 20:17								0.011	0.023	
9/4/2019 20:18								0.011	0.024	
9/4/2019 20:19								0.011	0.022	
9/4/2019 20:20	12.1	90.1						0.011	0.022	
9/4/2019 20:21								0.011	0.022	
9/4/2019 20:22								0.011	0.022	
9/4/2019 20:23								0.011	0.022	
9/4/2019 20:24								0.011	0.019	
9/4/2019 20:25	12.1	90.1						0.011	0.018	
9/4/2019 20:26								0.011	0.019	
9/4/2019 20:27								0.011	0.029	
9/4/2019 20:28								0.011	0.023	
9/4/2019 20:29								0.011	0.027	
9/4/2019 20:30	12.1	96.2						0.011	0.023	
9/4/2019 20:31								0.011	0.022	
9/4/2019 20:32								0.011	0.023	
9/4/2019 20:33								0.011	0.023	
9/4/2019 20:34								0.011	0.023	
9/4/2019 20:35	12.1	91.1						0.011	0.022	
9/4/2019 20:36								0.011	0.021	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
9/4/2019 20:37								0.011	0.023	
9/4/2019 20:38								0.012	0.023	
9/4/2019 20:39								0.012	0.034	
9/4/2019 20:40	12.1	89.1						0.012	0.03	
9/4/2019 20:41								0.012	0.022	
9/4/2019 20:42								0.012	0.022	
9/4/2019 20:43								0.012	0.02	
9/4/2019 20:44								0.012	0.022	
9/4/2019 20:45	12.1	90.1						0.012	0.024	
9/4/2019 20:46								0.012	0.037	
9/4/2019 20:47								0.012	0.024	
9/4/2019 20:48								0.012	0.022	
9/4/2019 20:49								0.012	0.022	
9/4/2019 20:50	12.1	90.1						0.012	0.021	
9/4/2019 20:51								0.012	0.02	
9/4/2019 20:52								0.012	0.019	
9/4/2019 20:53								0.012	0.017	
9/4/2019 20:54								0.012	0.018	
9/4/2019 20:55	12.1	90.1						0.012	0.017	
9/4/2019 20:56								0.012	0.016	
9/4/2019 20:57								0.012	0.031	
9/4/2019 20:58								0.013	0.032	
9/4/2019 20:59								0.013	0.022	
9/4/2019 21:00	12.1	108.3						0.013	0.02	
9/4/2019 21:00										42.4323821;-76.4969383
9/4/2019 21:01								0.013	0.019	
9/4/2019 21:02								0.013	0.018	
9/4/2019 21:03								0.013	0.017	
9/5/2019 15:30	12.3	125.5								
9/5/2019 15:32								0	0.052	
9/5/2019 15:33								0	0.017	
9/5/2019 15:34								0	0.015	
9/5/2019 15:35	12.2	107.3						0	0.019	
9/5/2019 15:36								0	0.05	
9/5/2019 15:37								0	0.029	
9/5/2019 15:38								0	0.049	
9/5/2019 15:39								0	0.052	
9/5/2019 15:40	12.2	111.3						0	0.043	
9/5/2019 15:41								0	0.039	
9/5/2019 15:42								0	0.031	
9/5/2019 15:43								0	0.02	
9/5/2019 15:44								0	0.015	
9/5/2019 15:45	12.2	105.3						0	0.016	
9/5/2019 15:46								0	0.014	
9/5/2019 15:47								0.001	0.014	
9/5/2019 15:48								0.001	0.013	
9/5/2019 15:49								0.001	0.012	
9/5/2019 15:50	12.2	108.3						0.001	0.011	
9/5/2019 15:51								0.001	0.012	
9/5/2019 15:52								0.001	0.012	
9/5/2019 15:53								0.001	0.013	
9/5/2019 15:54								0.001	0.012	
9/5/2019 15:55	12.2	111.3						0.001	0.012	
9/5/2019 15:56								0.001	0.012	
9/5/2019 15:57								0.001	0.012	
9/5/2019 15:58								0.001	0.066	
9/5/2019 15:59								0.001	0.073	
9/5/2019 16:00	12.2	106.3						0.001	0.034	
9/5/2019 16:01								0.002	0.032	
9/5/2019 16:02								0.002	0.03	
9/5/2019 16:03								0.002	0.033	
9/5/2019 16:04								0.002	0.036	
9/5/2019 16:05	12.2	105.3						0.002	0.041	
9/5/2019 16:06								0.002	0.041	
9/5/2019 16:07								0.002	0.033	
9/5/2019 16:08								0.002	0.052	
9/5/2019 16:09								0.002	0.14	
9/5/2019 16:10	12.2	103.2						0.003	0.105	
9/5/2019 16:11								0.003	0.044	
9/5/2019 16:12								0.003	0.022	
9/5/2019 16:13								0.003	0.043	
9/5/2019 16:14								0.003	0.035	
9/5/2019 16:15	12.2	105.3						0.003	0.031	
9/5/2019 16:16								0.003	0.041	
9/5/2019 16:17								0.003	0.032	
9/5/2019 16:18								0.003	0.028	
9/5/2019 16:19								0.003	0.021	
9/5/2019 16:20	12.2	116.4						0.003	0.019	
9/5/2019 16:21								0.003	0.022	
9/5/2019 16:22								0.003	0.019	
9/5/2019 16:23								0.003	0.018	
9/5/2019 16:24								0.003	0.028	
9/5/2019 16:25	12.2	99.2						0.004	0.053	
9/5/2019 16:26								0.004	0.024	
9/5/2019 16:27								0.004	0.016	
9/5/2019 16:28								0.004	0.016	
9/5/2019 16:29								0.004	0.016	
9/5/2019 16:30	12.2	119.4						0.004	0.016	
9/5/2019 16:31								0.004	0.017	
9/5/2019 16:32								0.004	0.016	
9/5/2019 16:33								0.004	0.015	
9/5/2019 16:34								0.004	0.014	
9/5/2019 16:35	12.2	117.4						0.004	0.016	
9/5/2019 16:36								0.004	0.014	
9/5/2019 16:37								0.004	0.013	
9/5/2019 16:38								0.004	0.014	
9/5/2019 16:39								0.004	0.014	
9/5/2019 16:40	12.2	88.1						0.004	0.012	
9/5/2019 16:41								0.004	0.012	
9/5/2019 16:42								0.004	0.012	
9/5/2019 16:43								0.004	0.014	
9/5/2019 16:44								0.004	0.03	
9/5/2019 16:45	12.2	100.2						0.004	0.023	
9/5/2019 16:46								0.004	0.013	
9/5/2019 16:47								0.004	0.013	
9/5/2019 16:48								0.004	0.013	
9/5/2019 16:49								0.004	0.013	
9/5/2019 16:50	12.2	107.3						0.004	0.013	
9/5/2019 16:51								0.004	0.013	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
9/5/2019 16:52								0.004	0.012	
9/5/2019 16:53								0.004	0.013	
9/5/2019 16:54								0.004	0.012	
9/5/2019 16:55	12.2	107.3						0.005	0.011	
9/5/2019 16:56								0.005	0.011	
9/5/2019 16:57								0.005	0.011	
9/5/2019 16:58								0.005	0.01	
9/5/2019 16:59								0.005	0.01	
9/5/2019 17:00	12.2	108.3						0.005	0.01	
9/5/2019 17:01								0.005	0.01	
9/5/2019 17:02								0.005	0.01	
9/5/2019 17:03								0.005	0.012	
9/5/2019 17:04								0.005	0.01	
9/5/2019 17:05	12.2	103.2						0.005	0.01	
9/5/2019 17:06								0.005	0.009	
9/5/2019 17:07								0.005	0.009	
9/5/2019 17:08								0.005	0.009	
9/5/2019 17:09								0.005	0.009	
9/5/2019 17:10	12.2	106.3						0.005	0.012	
9/5/2019 17:11								0.005	0.011	
9/5/2019 17:12								0.005	0.009	
9/5/2019 17:13								0.005	0.009	
9/5/2019 17:14								0.005	0.009	
9/5/2019 17:15	12.2	107.3						0.005	0.01	
9/5/2019 17:16								0.005	0.031	
9/5/2019 17:17								0.005	0.012	
9/5/2019 17:18								0.005	0.02	
9/5/2019 17:19								0.005	0.027	
9/5/2019 17:20	12.2	100.2						0.005	0.024	
9/5/2019 17:21								0.005	0.028	
9/5/2019 17:22								0.005	0.026	
9/5/2019 17:23								0.005	0.023	
9/5/2019 17:24								0.005	0.019	
9/5/2019 17:25	12.2	104.3						0.005	0.017	
9/5/2019 17:26								0.005	0.016	
9/5/2019 17:27								0.005	0.017	
9/5/2019 17:28								0.005	0.018	
9/5/2019 17:29								0.006	0.016	
9/5/2019 17:30	12.1	125.5						0.006	0.016	
9/5/2019 17:31								0.006	0.017	
9/5/2019 17:32								0.006	0.016	
9/5/2019 17:33								0.006	0.016	
9/5/2019 17:34								0.006	0.014	
9/5/2019 17:35	12.2	117.4						0.006	0.015	
9/5/2019 17:36								0.006	0.013	
9/5/2019 17:37								0.006	0.013	
9/5/2019 17:38								0.006	0.012	
9/5/2019 17:39								0.006	0.013	
9/5/2019 17:40	12.2	104.3						0.006	0.012	
9/5/2019 17:41								0.006	0.013	
9/5/2019 17:42								0.006	0.017	
9/5/2019 17:43								0.006	0.015	
9/5/2019 17:44								0.006	0.012	
9/5/2019 17:45	12.1	134.6						0.006	0.01	
9/5/2019 17:46								0.006	0.011	
9/5/2019 17:47								0.006	0.012	
9/5/2019 17:48								0.006	0.013	
9/5/2019 17:49								0.006	0.012	
9/5/2019 17:50	12.1	100.2						0.006	0.01	
9/5/2019 17:51								0.006	0.011	
9/5/2019 17:52								0.006	0.011	
9/5/2019 17:53								0.006	0.011	
9/5/2019 17:54								0.006	0.016	
9/5/2019 17:55	12.1	94.1						0.006	0.011	
9/5/2019 17:56								0.006	0.011	
9/5/2019 17:57								0.006	0.012	
9/5/2019 17:58								0.006	0.012	
9/5/2019 17:59								0.006	0.01	
9/5/2019 18:00	12.1	107.3						0.006	0.01	
9/5/2019 18:01								0.007	0.12	
9/5/2019 18:02								0.007	0.06	
9/5/2019 18:03								0.007	0.039	
9/5/2019 18:04								0.007	0.026	
9/5/2019 18:05	12.1	100.2						0.007	0.023	
9/5/2019 18:06								0.007	0.023	
9/5/2019 18:07								0.007	0.087	
9/5/2019 18:08								0.007	0.065	
9/5/2019 18:09								0.007	0.044	
9/5/2019 18:10	12.1	106.3						0.007	0.032	
9/5/2019 18:11								0.008	0.034	
9/5/2019 18:12								0.008	0.038	
9/5/2019 18:13								0.008	0.03	
9/5/2019 18:14								0.008	0.026	
9/5/2019 18:15	12.1	107.3						0.008	0.03	
9/5/2019 18:16								0.008	0.033	
9/5/2019 18:17								0.008	0.031	
9/5/2019 18:18								0.008	0.025	
9/5/2019 18:19								0.008	0.032	
9/5/2019 18:20	12.1	109.3						0.008	0.029	
9/5/2019 18:21								0.008	0.025	
9/5/2019 18:22								0.008	0.025	
9/5/2019 18:23								0.008	0.024	
9/5/2019 18:24								0.008	0.024	
9/5/2019 18:25	12.1	118.4						0.008	0.023	
9/5/2019 18:26								0.008	0.024	
9/5/2019 18:27								0.008	0.036	
9/5/2019 18:28								0.009	0.031	
9/5/2019 18:29								0.009	0.027	
9/5/2019 18:30	12.1	125.5						0.009	0.025	
9/5/2019 18:31								0.009	0.027	
9/5/2019 18:32								0.009	0.025	
9/5/2019 18:33								0.009	0.027	
9/5/2019 18:34								0.009	0.026	
9/5/2019 18:35	12.1	125.5						0.009	0.023	
9/5/2019 18:36								0.009	0.022	
9/5/2019 18:37								0.009	0.018	
9/5/2019 18:38								0.009	0.019	
9/5/2019 18:39								0.009	0.021	
9/5/2019 18:40	12.1	107.3						0.009	0.048	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
9/5/2019 18:41								0.009	0.028	
9/5/2019 18:42								0.009	0.021	
9/5/2019 18:43								0.009	0.02	
9/5/2019 18:44								0.009	0.018	
9/5/2019 18:45	12.1	106.3						0.009	0.018	
9/5/2019 18:46								0.009	0.018	
9/5/2019 18:47								0.009	0.016	
9/5/2019 18:48								0.009	0.017	
9/5/2019 18:49								0.01	0.026	
9/5/2019 18:50	12.1	107.3						0.01	0.378	
9/5/2019 18:51								0.01	0.075	
9/5/2019 18:52								0.011	0.152	
9/5/2019 18:53								0.011	0.136	
9/5/2019 18:54								0.011	0.113	
9/5/2019 18:55	12.1	107.3						0.012	0.112	
9/5/2019 18:56								0.012	0.101	
9/5/2019 18:57								0.012	0.082	
9/5/2019 18:58								0.012	0.134	
9/5/2019 18:59								0.012	0.124	
9/5/2019 19:00	12.1	107.3						0.013	0.078	
9/5/2019 19:01								0.013	0.072	
9/5/2019 19:02								0.013	0.072	
9/5/2019 19:03								0.013	0.068	
9/5/2019 19:04								0.013	0.071	
9/5/2019 19:05	12.1	102.2						0.013	0.071	
9/5/2019 19:06								0.014	0.076	
9/5/2019 19:07								0.014	0.072	
9/5/2019 19:08								0.014	0.065	
9/5/2019 19:09								0.014	0.048	
9/5/2019 19:10	12.1	107.3						0.014	0.044	
9/5/2019 19:11								0.014	0.045	
9/5/2019 19:12								0.014	0.038	
9/5/2019 19:13								0.014	0.034	
9/5/2019 19:14								0.014	0.085	
9/5/2019 19:15	12.1	107.3						0.014	0.032	
9/5/2019 19:16								0.015	0.037	
9/5/2019 19:17								0.015	0.033	
9/5/2019 19:18								0.015	0.036	
9/5/2019 19:19								0.015	0.031	
9/5/2019 19:20	12.1	107.3						0.015	0.026	
9/5/2019 19:21								0.015	0.026	
9/5/2019 19:22								0.015	0.027	
9/5/2019 19:23								0.015	0.027	
9/5/2019 19:24								0.015	0.022	
9/5/2019 19:25	12.1	108.3						0.015	0.022	
9/5/2019 19:26								0.015	0.02	
9/5/2019 19:27								0.015	0.019	
9/5/2019 19:28								0.015	0.019	
9/5/2019 19:29								0.015	0.021	
9/5/2019 19:30	12.1	121.5						0.015	0.021	
9/5/2019 19:31								0.015	0.019	
9/5/2019 19:32								0.015	0.019	
9/5/2019 19:33								0.015	0.016	
9/5/2019 19:34								0.015	0.018	
9/5/2019 19:35	12.1	117.4						0.015	0.016	
9/5/2019 19:36								0.016	0.016	
9/5/2019 19:37								0.016	0.017	
9/5/2019 19:38								0.016	0.018	
9/5/2019 19:39								0.016	0.017	
9/5/2019 19:40	12	106.3						0.016	0.017	
9/5/2019 19:41								0.016	0.014	
9/5/2019 19:42								0.016	0.017	
9/5/2019 19:43								0.016	0.015	
9/5/2019 19:44								0.016	0.014	
9/5/2019 19:45	12.1	107.3						0.016	0.014	
9/5/2019 19:46								0.016	0.013	
9/5/2019 19:47								0.016	0.013	
9/5/2019 19:48								0.016	0.013	
9/5/2019 19:49								0.016	0.012	
9/5/2019 19:50	12	108.3						0.016	0.013	
9/5/2019 19:51								0.016	0.013	
9/5/2019 19:52								0.016	0.013	
9/5/2019 19:53								0.016	0.013	
9/5/2019 19:54								0.016	0.011	
9/5/2019 19:55	12.1	107.3						0.016	0.012	
9/5/2019 19:56								0.016	0.012	
9/5/2019 19:57								0.016	0.011	
9/5/2019 19:58								0.016	0.011	
9/5/2019 19:59								0.016	0.011	
9/5/2019 20:00	12	109.3						0.016	0.011	
9/5/2019 20:01								0.016	0.011	
9/5/2019 20:02								0.016	0.012	
9/5/2019 20:03								0.016	0.012	
9/5/2019 20:04								0.016	0.011	
9/5/2019 20:05	12	106.3						0.016	0.012	
9/5/2019 20:05										42.4327337;-76.4960704
9/5/2019 20:06								0.016	0.011	
9/5/2019 20:07								0.016	0.011	
9/5/2019 20:08								0.016	0.011	
9/5/2019 20:09								0.016	0.01	
9/5/2019 20:10	12	117.4						0.016	0.01	
9/5/2019 20:11								0.016	0.01	
9/5/2019 20:12								0.016	0.01	
9/5/2019 20:13								0.016	0.01	
9/5/2019 20:14								0.017	0.01	
9/5/2019 20:15	12	100.2						0.017	0.01	
9/5/2019 20:16								0.017	0.009	
9/5/2019 20:17								0.017	0.01	
9/5/2019 20:18								0.017	0.009	
9/5/2019 20:19								0.017	0.009	
9/5/2019 20:20	12	108.3						0.017	0.011	
9/5/2019 20:21								0.017	0.026	
9/5/2019 20:22								0.017	0.023	
9/5/2019 20:23								0.017	0.02	
9/5/2019 20:24								0.017	0.022	
9/5/2019 20:25	12	101.2						0.017	0.022	
9/5/2019 20:26								0.017	0.021	
9/5/2019 20:27								0.017	0.02	
9/5/2019 20:28								0.017	0.017	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
9/5/2019 20:29								0.017	0.018	
9/5/2019 20:30	12	124.5						0.017	0.017	
9/5/2019 20:31								0.017	0.016	
9/5/2019 20:32								0.017	0.014	
9/5/2019 20:33								0.017	0.014	
9/5/2019 20:34								0.017	0.014	
9/5/2019 20:35	12	100.2						0.017	0.015	
9/5/2019 20:36								0.017	0.014	
9/5/2019 20:37								0.018	0.145	
9/5/2019 20:38								0.018	0.038	
9/5/2019 20:39								0.018	0.025	
9/5/2019 20:40	12	100.2						0.018	0.027	
9/5/2019 20:41								0.018	0.041	
9/5/2019 20:42								0.018	0.091	
9/5/2019 20:43								0.018	0.098	
9/5/2019 20:44								0.018	0.048	
9/11/2019 10:15	12	127.5								
9/11/2019 10:19								0	0.044	
9/11/2019 10:20	11.9	108.3						0	0.051	
9/11/2019 10:21								0	0.052	
9/11/2019 10:22								0	0.051	
9/11/2019 10:23								0	0.051	
9/11/2019 10:24								0	0.05	
9/11/2019 10:25	11.9	102.2						0	0.05	
9/11/2019 10:26								0	0.049	
9/11/2019 10:27								0	0.049	
9/11/2019 10:28								0	0.048	
9/11/2019 10:29								0	0.048	
9/11/2019 10:30	11.9	105.3						0	0.047	
9/11/2019 10:31								0	0.047	
9/11/2019 10:32								0	0.047	
9/11/2019 10:33								0	0.047	
9/11/2019 10:34								0.002	0.047	
9/11/2019 10:35	11.9	107.3						0.002	0.046	
9/11/2019 10:36								0.002	0.047	
9/11/2019 10:37								0.002	0.046	
9/11/2019 10:38								0.002	0.046	
9/11/2019 10:39								0.002	0.046	
9/11/2019 10:40	11.9	104.3						0.002	0.048	
9/11/2019 10:41								0.002	0.046	
9/11/2019 10:42								0.002	0.046	
9/11/2019 10:43								0.002	0.045	
9/11/2019 10:44								0.003	0.045	
9/11/2019 10:45	11.8	109.3						0.003	0.045	
9/11/2019 10:46								0.003	0.044	
9/11/2019 10:47								0.003	0.05	
9/11/2019 10:48								0.003	0.054	
9/11/2019 10:49								0.003	0.044	
9/11/2019 10:50	11.8	102.2						0.003	0.045	
9/11/2019 10:51								0.003	0.045	
9/11/2019 10:52								0.003	0.044	
9/11/2019 10:53								0.003	0.044	
9/11/2019 10:54								0.003	0.045	
9/11/2019 10:55	11.8	104.3						0.004	0.044	
9/11/2019 10:56								0.004	0.044	
9/11/2019 10:57								0.004	0.044	
9/11/2019 10:58								0.004	0.043	
9/11/2019 10:59								0.004	0.043	
9/11/2019 11:00	11.8	104.3						0.004	0.042	
9/11/2019 11:01								0.004	0.042	
9/11/2019 11:02								0.004	0.042	
9/11/2019 11:03								0.004	0.042	
9/11/2019 11:04								0.004	0.042	
9/11/2019 11:05	11.8	97.2						0.004	0.042	
9/11/2019 11:06								0.005	0.041	
9/11/2019 11:07								0.005	0.042	
9/11/2019 11:08								0.005	0.041	
9/11/2019 11:09								0.005	0.041	
9/11/2019 11:10	11.7	108.3						0.005	0.041	
9/11/2019 11:11								0.005	0.042	
9/11/2019 11:12								0.005	0.041	
9/11/2019 11:13								0.005	0.041	
9/11/2019 11:14								0.005	0.042	
9/11/2019 11:15	11.7	109.3						0.005	0.042	
9/11/2019 11:16								0.005	0.042	
9/11/2019 11:17								0.006	0.049	
9/11/2019 11:18								0.006	0.045	
9/11/2019 11:19								0.006	0.043	
9/11/2019 11:20	11.7	109.3						0.006	0.041	
9/11/2019 11:21								0.006	0.042	
9/11/2019 11:22								0.006	0.042	
9/11/2019 11:23								0.006	0.041	
9/11/2019 11:24								0.006	0.04	
9/11/2019 11:25	11.7	135.6						0.006	0.04	
9/11/2019 11:26								0.006	0.04	
9/11/2019 11:27								0.006	0.04	
9/11/2019 11:28								0.006	0.04	
9/11/2019 11:29								0.007	0.04	
9/11/2019 11:30	11.7	106.3						0.007	0.04	
9/11/2019 11:31								0.007	0.041	
9/11/2019 11:32								0.007	0.041	
9/11/2019 11:33								0.007	0.04	
9/11/2019 11:34								0.007	0.04	
9/11/2019 11:35	11.7	110.3						0.007	0.04	
9/11/2019 11:36								0.007	0.04	
9/11/2019 11:37								0.007	0.04	
9/11/2019 11:38								0.007	0.041	
9/11/2019 11:39								0.007	0.041	
9/11/2019 11:40	11.7	111.3						0.007	0.041	
9/11/2019 11:41								0.008	0.042	
9/11/2019 11:42								0.008	0.042	
9/11/2019 11:43								0.008	0.042	
9/11/2019 11:44								0.008	0.041	
9/11/2019 11:45	11.7	103.2						0.008	0.041	
9/11/2019 11:46								0.008	0.04	
9/11/2019 11:47								0.008	0.04	
9/11/2019 11:48								0.008	0.04	
9/11/2019 11:49								0.008	0.039	
9/11/2019 11:50	11.7	104.3						0.008	0.04	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
9/11/2019 11:51								0.008	0.039	
9/11/2019 11:52								0.008	0.039	
9/11/2019 11:53								0.009	0.039	
9/11/2019 11:54								0.009	0.039	
9/11/2019 11:55	11.7	110.3						0.009	0.039	
9/11/2019 11:56								0.009	0.04	
9/11/2019 11:57								0.009	0.04	
9/11/2019 11:58								0.009	0.041	
9/11/2019 11:59								0.009	0.039	
9/11/2019 12:00	11.7	110.3						0.009	0.039	
9/11/2019 12:01								0.009	0.04	
9/11/2019 12:02								0.009	0.04	
9/11/2019 12:03								0.009	0.04	
9/11/2019 12:04								0.009	0.04	
9/11/2019 12:05	11.7	111.3						0.01	0.04	
9/11/2019 12:06								0.01	0.04	
9/11/2019 12:07								0.01	0.04	
9/11/2019 12:08								0.01	0.041	
9/11/2019 12:09								0.01	0.041	
9/11/2019 12:10	11.6	102.2						0.01	0.04	
9/11/2019 12:11								0.01	0.039	
9/11/2019 12:12								0.01	0.038	
9/11/2019 12:13								0.01	0.037	
9/11/2019 12:14								0.01	0.038	
9/11/2019 12:15	11.6	110.3						0.01	0.038	
9/11/2019 12:16								0.01	0.039	
9/11/2019 12:17								0.011	0.038	
9/11/2019 12:18								0.011	0.038	
9/11/2019 12:19								0.011	0.037	
9/11/2019 12:20	11.6	92.1						0.011	0.037	
9/11/2019 12:21								0.011	0.038	
9/11/2019 12:22								0.011	0.039	
9/11/2019 12:23								0.011	0.039	
9/11/2019 12:24								0.011	0.039	
9/11/2019 12:25	11.6	111.3						0.011	0.039	
9/11/2019 12:26								0.011	0.038	
9/11/2019 12:27								0.011	0.038	
9/11/2019 12:28								0.011	0.039	
9/11/2019 12:29								0.011	0.039	
9/11/2019 12:30	11.6	111.3						0.012	0.039	
9/11/2019 12:31								0.012	0.039	
9/11/2019 12:32								0.012	0.04	
9/11/2019 12:33								0.012	0.042	
9/11/2019 12:34								0.012	0.042	
9/11/2019 12:35	11.6	111.3						0.012	0.043	
9/11/2019 12:36								0.012	0.045	
9/11/2019 12:37								0.012	0.044	
9/11/2019 12:38								0.012	0.044	
9/11/2019 12:39								0.012	0.044	
9/11/2019 12:40	11.6	105.3						0.012	0.047	
9/11/2019 12:41								0.013	0.047	
9/11/2019 12:42								0.013	0.043	
9/11/2019 12:43								0.013	0.043	
9/11/2019 12:44								0.013	0.043	
9/11/2019 12:45	11.6	110.3						0.013	0.044	
9/11/2019 12:46								0.013	0.043	
9/11/2019 12:47								0.013	0.042	
9/11/2019 12:48								0.013	0.04	
9/11/2019 12:49								0.013	0.038	
9/11/2019 12:50	11.6	127.5						0.013	0.04	
9/11/2019 12:51								0.013	0.039	
9/11/2019 12:52								0.014	0.037	
9/11/2019 12:53								0.014	0.038	
9/11/2019 12:54								0.014	0.039	
9/11/2019 12:55	11.6	104.3						0.014	0.04	
9/11/2019 12:56								0.014	0.039	
9/11/2019 12:57								0.014	0.039	
9/11/2019 12:58								0.014	0.041	
9/11/2019 12:59								0.014	0.042	
9/11/2019 13:00	11.6	111.3						0.014	0.042	
9/11/2019 13:01								0.014	0.043	
9/11/2019 13:02								0.014	0.043	
9/11/2019 13:03								0.014	0.042	
9/11/2019 13:04								0.015	0.038	
9/11/2019 13:05	11.6	111.3						0.015	0.038	
9/11/2019 13:06								0.015	0.038	
9/11/2019 13:07								0.015	0.037	
9/11/2019 13:08								0.015	0.037	
9/11/2019 13:09								0.015	0.039	
9/11/2019 13:10	11.5	114.4						0.015	0.04	
9/11/2019 13:11								0.015	0.04	
9/11/2019 13:12								0.015	0.04	
9/11/2019 13:13								0.015	0.042	
9/11/2019 13:14								0.015	0.041	
9/11/2019 13:15	11.5	122.5						0.015	0.042	
9/11/2019 13:16								0.016	0.041	
9/11/2019 13:17								0.016	0.041	
9/11/2019 13:18								0.016	0.041	
9/11/2019 13:19								0.016	0.042	
9/11/2019 13:20	11.6	122.5						0.016	0.041	
9/11/2019 13:21								0.016	0.042	
9/11/2019 13:22								0.016	0.041	
9/11/2019 13:23								0.016	0.041	
9/11/2019 13:24								0.016	0.042	
9/11/2019 13:25	11.5	110.3						0.016	0.042	
9/11/2019 13:26								0.016	0.04	
9/11/2019 13:27								0.016	0.039	
9/11/2019 13:28								0.017	0.04	
9/11/2019 13:29								0.017	0.041	
9/11/2019 13:30	11.5	103.2						0.017	0.04	
9/11/2019 13:31								0.017	0.04	
9/11/2019 13:32								0.017	0.04	
9/11/2019 13:33								0.017	0.04	
9/11/2019 13:34								0.017	0.04	
9/11/2019 13:35	11.5	104.3						0.017	0.04	
9/11/2019 13:36								0.017	0.04	
9/11/2019 13:37								0.017	0.04	
9/11/2019 13:38								0.017	0.04	
9/11/2019 13:39								0.017	0.04	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
9/11/2019 13:40	11.5	111.3						0.018	0.041	
9/11/2019 13:41								0.018	0.04	
9/11/2019 13:42								0.018	0.041	
9/11/2019 13:43								0.018	0.041	
9/11/2019 13:44								0.018	0.041	
9/11/2019 13:45	11.5	120.5						0.018	0.041	
9/11/2019 13:46								0.018	0.041	
9/11/2019 13:47								0.018	0.039	
9/11/2019 13:48								0.018	0.04	
9/11/2019 13:49								0.018	0.04	
9/11/2019 13:50	11.5	105.3						0.018	0.041	
9/11/2019 13:51								0.018	0.041	
9/11/2019 13:52								0.019	0.04	
9/11/2019 13:53								0.019	0.04	
9/11/2019 13:54								0.019	0.041	
9/11/2019 13:55	11.5	110.3						0.019	0.04	
9/11/2019 13:56								0.019	0.04	
9/11/2019 13:57								0.019	0.041	
9/11/2019 13:58								0.019	0.041	
9/11/2019 13:59								0.019	0.041	
9/11/2019 14:00	11.5	104.3						0.019	0.041	
9/11/2019 14:01								0.019	0.041	
9/11/2019 14:02								0.019	0.041	
9/11/2019 14:03								0.019	0.04	
9/11/2019 14:04								0.02	0.04	
9/11/2019 14:05	11.5	108.3						0.02	0.041	
9/11/2019 14:06								0.02	0.04	
9/11/2019 14:07								0.02	0.041	
9/11/2019 14:08								0.02	0.041	
9/11/2019 14:09								0.02	0.041	
9/11/2019 14:10	11.5	111.3						0.02	0.041	
9/11/2019 14:11								0.02	0.041	
9/11/2019 14:12								0.02	0.041	
9/11/2019 14:13								0.02	0.041	
9/11/2019 14:14								0.02	0.041	
9/11/2019 14:15	11.5	110.3						0.021	0.041	
9/11/2019 14:16								0.021	0.041	
9/11/2019 14:17								0.021	0.041	
9/11/2019 14:18								0.021	0.041	
9/11/2019 14:19								0.021	0.041	
9/11/2019 14:20	11.5	110.3						0.021	0.041	
9/11/2019 14:21								0.021	0.041	
9/11/2019 14:22								0.021	0.041	
9/11/2019 14:23								0.021	0.042	
9/11/2019 14:24								0.021	0.041	
9/11/2019 14:25	11.5	111.3						0.021	0.042	
9/11/2019 14:26								0.021	0.042	
9/11/2019 14:27								0.022	0.042	
9/11/2019 14:28								0.022	0.042	
9/11/2019 14:29								0.022	0.042	
9/11/2019 14:30	11.5	111.3						0.022	0.042	
9/11/2019 14:31								0.022	0.042	
9/11/2019 14:32								0.022	0.043	
9/11/2019 14:33								0.022	0.042	
9/11/2019 14:34								0.022	0.043	
9/11/2019 14:35	11.5	111.3						0.022	0.043	
9/11/2019 14:36								0.022	0.043	
9/11/2019 14:37								0.022	0.043	
9/11/2019 14:38								0.023	0.043	
9/11/2019 14:39								0.023	0.043	
9/11/2019 14:40	11.5	111.3						0.023	0.043	
9/11/2019 14:41								0.023	0.043	
9/11/2019 14:42								0.023	0.043	
9/11/2019 14:43								0.023	0.043	
9/11/2019 14:44								0.023	0.043	
9/11/2019 14:45	11.5	121.5						0.023	0.043	
9/11/2019 14:46								0.023	0.044	
9/11/2019 14:47								0.023	0.043	
9/11/2019 14:48								0.023	0.043	
9/11/2019 14:49								0.024	0.044	
9/11/2019 14:50	11.4	104.3						0.024	0.044	
9/11/2019 14:51								0.024	0.043	
9/11/2019 14:52								0.024	0.044	
9/11/2019 14:53								0.024	0.043	
9/11/2019 14:54								0.024	0.044	
9/11/2019 14:55	11.5	106.3						0.024	0.043	
9/11/2019 14:56								0.024	0.043	
9/11/2019 14:57								0.024	0.044	
9/11/2019 14:58								0.024	0.046	
9/11/2019 14:59								0.024	0.045	
9/11/2019 15:00	11.4	93.1						0.025	0.047	
9/11/2019 15:01								0.025	0.046	
9/11/2019 15:02								0.025	0.045	
9/11/2019 15:03								0.025	0.044	
9/11/2019 15:04								0.025	0.044	
9/11/2019 15:05	11.4	114.4						0.025	0.044	
9/11/2019 15:06								0.025	0.044	
9/11/2019 15:07								0.025	0.044	
9/11/2019 15:08								0.025	0.045	
9/11/2019 15:09								0.025	0.044	
9/11/2019 15:10	11.4	124.5						0.025	0.044	
9/11/2019 15:11								0.026	0.044	
9/11/2019 15:12								0.026	0.044	
9/11/2019 15:13								0.026	0.051	
9/11/2019 15:14								0.026	0.046	
9/11/2019 15:15	11.4	123.5						0.026	0.044	
9/11/2019 15:16								0.026	0.043	
9/11/2019 15:17								0.026	0.043	
9/11/2019 15:18								0.026	0.044	
9/11/2019 15:19								0.026	0.043	
9/11/2019 15:20	11.4	118.4						0.026	0.042	
9/11/2019 15:21								0.026	0.043	
9/11/2019 15:22								0.027	0.043	
9/11/2019 15:23								0.027	0.042	
9/11/2019 15:24								0.027	0.043	
9/11/2019 15:25	11.4	115.4						0.027	0.042	
9/11/2019 15:26								0.027	0.042	
9/11/2019 15:27								0.027	0.042	
9/11/2019 15:28								0.027	0.042	

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Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
9/11/2019 15:29								0.027	0.042	
9/11/2019 15:30	11.4	113.4						0.027	0.043	
9/11/2019 15:31								0.027	0.043	
9/11/2019 15:32								0.027	0.043	
9/11/2019 15:33								0.028	0.043	
9/11/2019 15:34								0.028	0.043	
9/11/2019 15:35	11.4	115.4						0.028	0.043	
9/11/2019 15:36								0.028	0.043	
9/11/2019 15:37								0.028	0.043	
9/11/2019 15:38								0.028	0.043	
9/11/2019 15:39								0.028	0.043	
9/11/2019 15:40	11.4	112.4						0.028	0.043	
9/11/2019 15:41								0.028	0.044	
9/11/2019 15:42								0.028	0.045	
9/11/2019 15:43								0.028	0.046	
9/11/2019 15:44								0.029	0.046	
9/11/2019 15:45	11.4	112.4						0.029	0.046	
9/11/2019 15:46								0.029	0.048	
9/11/2019 15:47								0.029	0.049	
9/11/2019 15:48								0.029	0.048	
9/11/2019 15:49								0.029	0.048	
9/11/2019 15:50	11.4	119.4						0.029	0.048	
9/11/2019 15:51								0.029	0.048	
9/11/2019 15:52								0.029	0.047	
9/11/2019 15:53								0.029	0.048	
9/11/2019 15:54								0.03	0.046	
9/11/2019 15:55	11.4	122.5						0.03	0.046	
9/11/2019 15:56								0.03	0.045	
9/11/2019 15:57								0.03	0.047	
9/11/2019 15:58								0.03	0.047	
9/11/2019 15:59								0.03	0.047	
9/11/2019 16:00	11.4	111.3						0.03	0.051	
9/11/2019 16:01								0.03	0.049	
9/11/2019 16:02								0.03	0.048	
9/11/2019 16:03								0.03	0.048	
9/11/2019 16:04								0.031	0.048	
9/11/2019 16:05	11.4	118.4						0.031	0.049	
9/11/2019 16:06								0.031	0.049	
9/11/2019 16:07								0.031	0.048	
9/11/2019 16:08								0.031	0.048	
9/11/2019 16:09								0.031	0.048	
9/11/2019 16:10	11.4	105.3						0.031	0.048	
9/11/2019 16:11								0.031	0.047	
9/11/2019 16:12								0.031	0.046	
9/11/2019 16:13								0.031	0.05	
9/11/2019 16:14								0.032	0.052	
9/11/2019 16:15	11.3	102.2						0.032	0.052	
9/11/2019 16:16								0.032	0.051	
9/11/2019 16:17								0.032	0.049	
9/11/2019 16:18								0.032	0.051	
9/11/2019 16:19								0.032	0.051	
9/11/2019 16:20	11.3	107.3						0.032	0.051	
9/11/2019 16:21								0.032	0.051	
9/11/2019 16:22								0.032	0.051	
9/11/2019 16:23								0.032	0.049	
9/11/2019 16:24								0.033	0.05	
9/11/2019 16:25	11.3	112.4						0.033	0.052	
9/11/2019 16:26								0.033	0.049	
9/11/2019 16:27								0.033	0.048	
9/11/2019 16:28								0.033	0.051	
9/11/2019 16:29								0.033	0.049	
9/11/2019 16:30	11.3	112.4						0.033	0.049	
9/11/2019 16:31								0.033	0.049	
9/11/2019 16:32								0.033	0.05	
9/11/2019 16:33								0.034	0.054	
9/11/2019 16:34								0.034	0.052	
9/11/2019 16:35	11.3	113.4						0.034	0.05	
9/11/2019 16:35										42.432386699999995;-76.4969295
9/11/2019 16:36								0.034	0.048	
9/11/2019 16:37								0.034	0.05	
9/11/2019 16:38								0.034	0.05	
9/11/2019 16:39								0.034	0.048	
9/11/2019 16:40	11.3	113.4						0.034	0.049	
9/11/2019 16:41								0.034	0.049	
9/11/2019 16:42								0.034	0.049	
9/11/2019 16:43								0.035	0.051	
9/11/2019 16:44								0.035	0.052	
9/11/2019 16:45	11.3	113.4						0.035	0.051	
9/11/2019 16:46								0.035	0.052	
9/11/2019 16:47								0.035	0.054	
9/11/2019 16:48								0.035	0.052	
9/11/2019 16:49								0.035	0.053	
9/11/2019 16:50	11.3	125.5						0.035	0.053	
9/11/2019 16:51								0.035	0.054	
9/11/2019 16:52								0.036	0.054	
9/11/2019 16:53								0.036	0.054	
9/11/2019 16:54								0.036	0.053	
9/11/2019 16:55	11.3	110.3						0.036	0.055	
9/11/2019 16:56								0.036	0.06	
9/11/2019 16:57								0.036	0.053	
9/11/2019 16:58								0.036	0.054	
9/11/2019 16:59								0.036	0.055	
9/11/2019 17:00	11.3	130.6						0.036	0.055	
9/11/2019 17:01								0.037	0.053	
9/11/2019 17:02								0.037	0.051	
9/11/2019 17:03								0.037	0.052	
9/11/2019 17:04								0.037	0.052	
9/11/2019 17:05	11.3	116.4						0.037	0.054	
9/11/2019 17:06								0.037	0.055	
9/11/2019 17:07								0.037	0.055	
9/11/2019 17:08								0.037	0.055	
9/11/2019 17:09								0.037	0.056	
9/11/2019 17:10	11.3	110.3						0.038	0.057	
9/11/2019 17:11								0.038	0.056	
9/11/2019 17:12								0.038	0.055	
9/11/2019 17:13								0.038	0.056	
9/11/2019 17:14								0.038	0.055	
9/11/2019 17:15	11.2	112.4						0.038	0.054	
9/11/2019 17:16								0.038	0.055	

Community Air Monitoring Program - Downwind Station
May 15, 2019 to September 11, 2019

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
9/11/2019 17:17								0.038	0.055	
9/11/2019 17:18								0.038	0.055	
9/11/2019 17:19								0.039	0.056	
9/11/2019 17:20	11.2	114.4						0.039	0.056	
9/11/2019 17:21								0.039	0.058	
9/11/2019 17:22								0.039	0.059	
9/11/2019 17:23								0.039	0.057	
9/11/2019 17:24								0.039	0.054	
9/11/2019 17:25	11.2	106.3						0.039	0.055	
9/11/2019 17:26								0.039	0.057	
9/11/2019 17:27								0.04	0.057	
9/11/2019 17:28								0.04	0.058	
9/11/2019 17:29								0.04	0.057	
9/11/2019 17:30	11.2	111.3						0.04	0.058	
9/11/2019 17:31								0.04	0.058	
9/11/2019 17:32								0.04	0.057	
9/11/2019 17:33								0.04	0.057	
9/11/2019 17:34								0.04	0.058	
9/11/2019 17:35	11.2	118.4						0.041	0.056	
9/11/2019 17:36								0.041	0.057	
9/11/2019 17:37								0.041	0.057	
9/11/2019 17:38								0.041	0.058	
9/11/2019 17:39								0.041	0.057	
9/11/2019 17:40	11.2	113.4						0.041	0.058	
9/11/2019 17:41								0.041	0.058	
9/11/2019 17:42								0.041	0.057	
9/11/2019 17:43								0.041	0.057	
9/11/2019 17:44								0.042	0.058	
9/11/2019 17:45	11.2	107.3						0.042	0.057	
9/11/2019 17:46								0.042	0.058	
9/11/2019 17:47								0.042	0.057	
9/11/2019 17:48								0.042	0.059	
9/11/2019 17:49								0.042	0.059	
9/11/2019 17:50	11.2	124.5						0.042	0.058	
9/11/2019 17:51								0.042	0.057	
9/11/2019 17:52								0.043	0.058	
9/11/2019 17:53								0.043	0.058	
9/11/2019 17:54								0.043	0.057	
9/11/2019 17:55	11.1	129.6						0.043	0.057	
9/11/2019 17:56								0.043	0.058	
9/11/2019 17:57								0.043	0.058	
9/11/2019 17:58								0.043	0.056	
9/11/2019 17:59								0.043	0.056	
9/11/2019 18:00	11.2	114.4						0.043	0.057	
9/11/2019 18:01								0.044	0.058	
9/11/2019 18:02								0.044	0.057	
9/11/2019 18:03								0.044	0.058	
9/11/2019 18:04								0.044	0.059	
9/11/2019 18:05	11.2	122.5						0.044	0.058	
9/11/2019 18:06								0.044	0.058	
9/11/2019 18:07								0.044	0.058	
9/11/2019 18:08								0.044	0.059	
9/11/2019 18:09								0.045	0.06	
9/11/2019 18:10	11.2	113.4						0.045	0.059	
9/11/2019 18:11								0.045	0.059	
9/11/2019 18:12								0.045	0.059	
9/11/2019 18:13								0.045	0.059	
9/11/2019 18:14								0.045	0.059	
9/11/2019 18:15	11.1	125.5						0.045	0.06	
9/11/2019 18:16								0.045	0.059	
9/11/2019 18:17								0.046	0.058	
9/11/2019 18:18								0.046	0.058	
9/11/2019 18:19								0.046	0.06	
9/11/2019 18:20	11.1	117.4						0.046	0.059	
9/11/2019 18:20										42.4323906;-76.4968924
9/11/2019 18:21								0.046	0.059	
9/11/2019 18:22								0.046	0.059	
9/11/2019 18:23								0.046	0.059	
9/11/2019 18:24								0.046	0.059	
9/11/2019 18:25	11.1	106.3						0.046	0.059	
9/11/2019 18:26								0.046	0.061	
9/11/2019 18:27								0.046	0.061	
9/11/2019 18:28								0.046	0.061	
9/11/2019 18:29								0.046	0.06	
9/11/2019 18:30	11.1	109.3						0.046	0.06	
9/11/2019 18:31								0.046	0.06	
9/11/2019 18:32								0.046	0.059	
9/11/2019 18:33								0.046	0.059	
9/11/2019 18:34								0.046	0.056	
9/11/2019 18:35	11.1	108.3						0.046	0.058	
9/11/2019 18:36								0.046	0.058	
9/11/2019 18:37								0.046	0.058	
9/11/2019 18:38								0.046	0.058	
9/11/2019 18:39								0.046	0.059	
9/11/2019 18:40	11.1	114.4						0.046	0.06	
9/11/2019 18:41								0.046	0.06	
9/11/2019 18:42								0.046	0.056	
9/11/2019 18:43								0.046	0.058	
9/11/2019 18:44								0.046	0.059	
9/11/2019 18:45	11.1	116.4						0.046	0.059	
9/11/2019 18:46								0.046	0.058	
9/11/2019 18:47								0.046	0.059	
9/11/2019 18:48								0.046	0.06	
9/11/2019 18:49								0.046	0.06	
9/11/2019 18:50	11.1	116.4						0.046	0.059	
9/11/2019 18:51								0.046	0.061	
9/11/2019 18:52								0.046	0.061	
9/11/2019 18:53								0.046	0.06	
9/11/2019 18:54								0.046	0.06	
9/11/2019 18:55	11.1	124.5						0.046	0.059	
9/11/2019 18:56								0.046	0.058	
9/11/2019 18:57								0.046	0.058	
9/11/2019 18:58								0.046	0.058	
9/11/2019 18:59								0.046	0.057	
9/11/2019 19:00	11.1	107.3						0.046	0.058	
9/11/2019 19:01								0.046	0.059	
9/11/2019 19:02								0.046	0.058	
9/11/2019 19:03								0.046	0.056	
9/11/2019 19:04								0.046	0.055	

Community Air Monitoring Program - Downwind Station
May 15, 2019 to September 11, 2019

Device:	Thiamis-1000	Thiamis-1000	RAE RS232	RAE RS232	RAE RS232	RAE RS232	RAE RS232	DustTrak RS232	DustTrak RS232	
Timestamp (UTC)	Batt. Voltage (V)	Current (mA)	VOC (Low) (ppm)	VOC (Peak) (ppm)	VOC (STEL) (ppm)	VOC (TWA) (ppm)	VOC (ppm)	Total TWA (mg/m³)	Mass Conc. Total (mg/m³)	Location
9/11/2019 19:05	11	121.5						0.046	0.056	
9/11/2019 19:06								0.046	0.057	
9/11/2019 19:07								0.046	0.056	
9/11/2019 19:08								0.046	0.061	
9/11/2019 19:09								0.046	0.057	
9/11/2019 19:10	11	116.4						0.046	0.055	
9/11/2019 19:11								0.046	0.061	
9/11/2019 19:12								0.046	0.059	
9/11/2019 19:13								0.046	0.059	
9/11/2019 19:14								0.046	0.058	
9/11/2019 19:15	11	125.5						0.046	0.057	
9/11/2019 19:16								0.046	0.057	
9/11/2019 19:17								0.046	0.055	
9/11/2019 19:18								0.046	0.056	
9/11/2019 19:19								0.046	0.057	
9/11/2019 19:20	11	114.4						0.046	0.056	42.43192;-76.49657
9/11/2019 19:21								0.046	0.056	
9/11/2019 19:22								0.046	0.056	
9/11/2019 19:23								0.046	0.057	
9/11/2019 19:24								0.046	0.057	
9/11/2019 19:25	11	108.3						0.046	0.056	42.43162;-76.49596
9/11/2019 19:26								0.046	0.057	
9/11/2019 19:27								0.046	0.057	
9/11/2019 19:28								0.046	0.06	
9/11/2019 19:29								0.046	0.059	
9/11/2019 19:30	11	108.3						0.046	0.058	
9/11/2019 19:30										42.43183;-76.49541
9/11/2019 19:31								0.046	0.058	
9/11/2019 19:32								0.046	0.06	
9/11/2019 19:33								0.046	0.059	
9/11/2019 19:34								0.046	0.059	
9/11/2019 19:35	11	109.3						0.046	0.058	42.43204;-76.49683
9/11/2019 19:36								0.046	0.059	
9/11/2019 19:37								0.046	0.059	
9/11/2019 19:38								0.046	0.059	
9/11/2019 19:39								0.046	0.059	
9/11/2019 19:40	10.9	107.3						0.046	0.059	42.43197;-76.49673
9/11/2019 19:41								0.046	0.057	
9/11/2019 19:42								0.046	0.057	
9/11/2019 19:43								0.046	0.058	
9/11/2019 19:44								0.046	0.057	
9/11/2019 19:45	10.9	108.3						0.046	0.059	
9/11/2019 19:45										42.43231;-76.49696
9/11/2019 19:46								0.046	0.062	
9/11/2019 19:47								0.046	0.061	
9/11/2019 19:48								0.046	0.061	
9/11/2019 19:49								0.046	0.061	
9/11/2019 19:50	10.9	130.6						0.046	0.057	42.43263;-76.4969
9/11/2019 19:51								0.046	0.061	
9/11/2019 19:52								0.046	0.059	
9/11/2019 19:53								0.046	0.059	
9/11/2019 19:54								0.046	0.06	
9/11/2019 19:55	10.9	115.4						0.046	0.059	42.43225;-76.49709
9/11/2019 19:56								0.046	0.06	
9/11/2019 19:57								0.046	0.06	
9/11/2019 19:58								0.046	0.061	
9/11/2019 19:59								0.046	0.059	
9/11/2019 20:00	10.9	114.4						0.046	0.06	
9/11/2019 20:00										42.43291;-76.49696
9/11/2019 20:01								0.046	0.059	
9/11/2019 20:02								0.046	0.06	
9/11/2019 20:03								0.046	0.06	
9/11/2019 20:04								0.046	0.06	
9/11/2019 20:05	10.9	112.4						0.046	0.059	42.43239;-76.49712
9/11/2019 20:06								0.046	0.059	
9/11/2019 20:07								0.046	0.06	
9/11/2019 20:08								0.046	0.059	
9/11/2019 20:09								0.046	0.06	
9/11/2019 20:10	10.9	120.5						0.046	0.06	42.43216;-76.49699
9/11/2019 20:11								0.046	0.06	
9/11/2019 20:12								0.046	0.061	
9/11/2019 20:13								0.046	0.061	
9/11/2019 20:14								0.046	0.06	
9/11/2019 20:15	10.8	108.3						0.046	0.061	
9/11/2019 20:16								0.046	0.061	
9/11/2019 20:17								0.046	0.06	
9/11/2019 20:18								0.046	0.058	
9/11/2019 20:19								0.046	0.059	
9/11/2019 20:20	10.8	110.3						0.046	0.058	42.432;-76.49706
9/11/2019 20:21								0.046	0.058	
9/11/2019 20:22								0.046	0.057	
9/11/2019 20:23								0.046	0.058	
9/11/2019 20:24								0.046	0.059	
9/11/2019 20:25	10.8	114.4						0.046	0.058	42.43256;-76.49695
9/11/2019 20:26								0.046	0.059	
9/11/2019 20:27								0.046	0.06	
9/11/2019 20:28								0.046	0.059	
9/11/2019 20:29								0.046	0.058	
9/11/2019 20:30	10.8	108.3						0.046	0.058	42.43246;-76.49699
9/11/2019 20:31								0.046	0.058	
9/11/2019 20:32								0.046	0.057	
9/11/2019 20:33								0.046	0.057	
9/11/2019 20:34								0.046	0.057	
9/11/2019 20:35	10.7	109.3						0.046	0.058	42.43245;-76.49722
9/11/2019 20:36								0.046	0.057	
9/11/2019 20:37								0.046	0.057	
9/11/2019 20:38								0.046	0.058	
9/11/2019 20:39								0.046	0.057	
9/11/2019 20:40	10.7	110.3						0.046	0.057	42.43246;-76.49692
9/11/2019 20:41								0.046	0.058	

APPENDIX

G WASTE CHARACTERIZATION ANALYTICAL DATA REPORTS

APPENDIX

H NON-HAZARDOUS WASTE PROFILES

WASTE CONNECTIONS INC.

Waste profile name: Emerson Ithaca Non-Haz Soils
ID: 51a028a2-ee61-457e-ad01-58abd4d9c3da

Status: PENDING

GENERATOR

Name: Emersub 15 LLC
Address: 620 South Aurora Street City: Ithaca State: NY Postal Code: 14850
County: Tompkins
Contact: Dave Rykaczewski Email: Dave.Rykaczewski@wsp.com
Phone: (412) 375-0282 Fax:

MATERIAL ORIGIN

Address: 620 South Aurora Street City: Ithaca State: NY Postal Code: 14850
County: Tompkins
EPA ID: NYD-002-228-625 State ID:

DESTINATION WASTE FACILITY

Name: Seneca Meadows LF
Address: 1786 Salcman Road City: Waterloo State: NY Postal Code: 13165
County:
Contact: Email:
Phone: Fax:

BILLING

Name: Ontario Specialty Contracting, Inc.
Address: 333 Ganson Street City: Buffalo State: NY Postal Code: 14203
County:
Contact: Email:
Phone: Fax:

TRANSPORTER

Transporter Name: TJ Allen Bulk Services, LLC
Contact: Email:
Phone: Fax:

MATERIAL

Is this an Industrial Waste Stream? ● Yes ○ No
Common Name: Contaminated Soil
Generation Process: Remediation
Preferred Disposal Methods: NH001
Source of Contamination: Old Manufactuirng
MATERIAL COMPOSITION
Constituent Solids 0% TO %
State Waste Codes: N/A
Color: LightBrown/ Dark Brown/Black/Grey
Physical state at 70° F: ● Solid ○ Liquid ○ Sludge ○ Dust ○ Other
pH N/A
Strong Odor No Describe Odor
Reactivity No
Flash Point ○ < 140°F ○ 140°-199°F ○ > 200°F ● N/A

REGULATORY

EPA Hazardous Waste? ○ Yes ● No
If **No**, Attached Non-Hazardous Determination Document(s) *(Check all that apply)*
☐ Process Knowledge Process Details
☐ SDS
■ Certified Analytical Sample
Is the data derived from testing a representative sample in accordance with 40 CFR 261 and/or other applicable laws? ● Yes ○ No
If **Yes**, Type of Analytical Sample ● Composite ○ Grab Sample ID #
☐ Exempt Waste
Applicable Exempt Waste Item
○ UST Corrective Action - 40 CFR 261.4 (b)(10) ○ PCB Bulk Product Waste - 40 CFR 761.62 ○ Oil & Gas E&P Waste - 40 CFR 261.4 (b)(5) ○ RCRA-Empty Containers - 40 CFR 261.7 ○ Other

If **Other**, Provided reference

State Hazardous Waste? ○ Yes ● No

Is this material non-hazardous due to treatment, delisting, or exclusion? ○ Yes ● No

From an industry regulated under Benzene NESHAP? ○ Yes ● No

Facility remediation subject to 40 CFR 63 GGGGG? ○ Yes ● No

CERCLA or State-Mandated clean-up? ○ Yes ● No

Regulated, Licensed or NORM Radioactive Waste? ○ Yes ● No

Contains PCBs? ● Yes ○ No

If **Yes**

Regulated by 40 CFR 761? ○ Yes ● No

Remediation under 40 CFR 761.61 (a)? ○ Yes ● No

PCB imported into the US? ○ Yes ● No

Regulated and/or Untreated Medical/Infectious Waste? ○ Yes ● No

Contains Asbestos? ○ Yes ● No

Subject to RCRA Subpart CC controls? ○ Yes ● No

SHIPPING & DOT

Event Frequency ○ One Time ● On-Going

Estimated Annual Qty 7000

Unit of Measure ● Tons ○ Yards ○ Drums ○ Gallons ○ Other

Shipping Frequency

○ Once ● Daily ○ Weekly ○ Monthly ○ Other

Qty Per Shipment 30 to 40 tons

Container Type Dump Trailer

Container Size 100 Yard

USDOT Shipping Name N/A

PROFILE CERTIFICATION

I hereby certify that (1) all information submitted on this form and on supplemental materials is complete and accurate to the best of my knowledge and ability to determine; (2) the information provided herein, including any supplemental information, such as laboratory analytical, MSDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed. I understand that, once the waste stream is approved by Destination Facility based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Destination Facility. I further understand that any deviation from the information contained herein will require immediate notification to the Destination Facility and cessation of disposal.

~~Alen Trpevski~~ David Rykaczewski (on behalf of EMERSUB 15, LLC) 1/4/19

~~Certified on 1/4/19 by Alen Trpevski as a Authorized Agent of Ontario Specialty Contracting, Inc.~~

© Environmental Data Systems LLC 2018

Profile Name:

Emerson Ithaca Non-Haz Soils 19-002

ID: 51a028a2-ee61-457e-ad01-58abd4d9c3da

Waste Connections Inc.

Profile Approval

GENERATOR

Name: Emersub 15 LLC

Address: 620 South Aurora Street City: Ithaca State: NY

Postal Code: 14850 County: Tompkins

Contact: Dave Rykaczewski Email: Dave.Rykaczewski@wsp.com

Phone: (412) 375-0282 Mobile: Fax:

MATERIAL ORIGIN

Address: 620 South Aurora Street City: Ithaca State: NY

Postal Code: 14850 County: Tompkins

EPA ID: NYD-002-228-625 State ID:

DESTINATION FACILITY

Name: Seneca Meadows LF

Address: 1786 Salcman Road City: Waterloo State: NY

Postal Code: 13165 County:

BILLING

Name: Ontario Specialty Contracting, Inc.

Address: 333 Ganson Street City: Buffalo State: NY

Postal Code: 14203 County:

MATERIAL

Common Name: Contaminated Soil

Generation Process: Remediation

Preferred Disposal Methods: NH001

State Waste Codes: N/A

APPROVAL

Status: Approved

Approval #: 19-002

Approved By: William Neuman

Approved On: 01/08/2019

Expires On: 10/18/2019

Approved Volume: 4000 short tons

Approved Disposal Methods: NH001

Conditions:

SMI CMDTY: ICS01

SMI Customer Number: OCS 706

SMI Hauler ID: 9999 TJAllen 7470 , Longhorn 7277

DEC Waste Code: N816
SMI File Number: F4688
HOURS OF ACCEPTANCE (IND. WASTE): Mon-Fri 7 AM - 4 PM
SMI requires that all future waste characterization data that is generated be submitted. SMI needs to be notified immediately if any changes occur.

Special Waste Characterization Profile

casella

I. Requested Facility *Choose all that apply*

- ☐ **Massachusetts:** Southbridge (Southbridge, MA)
- ☐ **Maine:** Hawk Ridge (Unity, ME)
- ☐ **Maine:** Juniper Ridge (Old Town, ME)
- ☐ **New Hampshire:** NCES (Bethlehem, NH)
- ☐ **Pennsylvania:** McKean (Mt. Jewett, PA)
- ☐ **Vermont:** NEWSVT (Coventry, VT)
- ■ **New York:** Chemung County (Lowman, NY)
- ☐ **New York:** Clinton County (Morrisonville, NY)
- ☐ **New York:** Grasslands (Chateaugay, NY)
- ☐ **New York:** Hyland (Angelica, NY)
- ■ **New York:** Ontario County (Stanley, NY)
- ☐ **Other:** _____

II. Generator

Name: Emersub 15, LLC

Mailing Address: c/o WSP USA Inc., 11 Stanwix Street, Suite 950

City: Pittsburgh State: PA ZIP Code: 15222

Contact Name: David Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

III. Bill To Customer ☐ *Same as Generator above*

Company Name: Ontario Specialty Contracting, Inc.

Billing Address: 333 Ganson Street

City: Buffalo State: NY ZIP Code: 14203

Contact Name: Alen Trpevski Title: Project Manager

Phone: 716-856-3333 Fax: _____ Email: atrpevski@oscinc.com

IV. Consultant/Representative

Company Name: WSP USA Inc.

Contact Name: David Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

V. Delivery and Quantity

■ ***One-Time Event*** *or* ☐ ***On-Going (Annually)***

Amount to Be Delivered (Estimated): 200 ■ Tons ☐ Cubic Yards ☐ Other: _____

Density of Waste (Approximate): 3,500 Pounds/Cubic Yard

Delivery Vehicle: ☐ Roll-off ☐ Packer Truck ■ Tractor Trailer ☐ Vac Truck ☐ Other: _____

Hauler Name: TJ Allen Bulk Services, LLC

Mailing Address: 219 White Creek Road, Newport, NY Phone: 315-845-6777

Transporter Permit #: 6A-338 New York (for State of Disposal)

Previous Disposal Facility (Name): _____

Application Been Submitted to/Approved by Another Disposal Facility (Name): _____

VI. Waste Stream Information

Common Waste Name: Non-Hazardous Soil and Concrete from AOC-1

Location or Address of Waste Generation Site: 620 South Aurora Street

City: Ithaca State: NY ZIP Code: 14850 County: Tompkins

Site Type: ■ Industrial/Manufacturing ☐ Commercial ☐ Residential ☐ Institutional ☐ Municipal ☐ Other: _____

a. Waste Generation Process ☐ *Check if detailed Process Description is attached as a separate document*

Describe the waste generating process. Please be as specific and detailed as possible. Include a process flow diagram if available.

Remediation Activities, please see attached analytical data reports for further information

b. Waste Description ■ *Check if detailed Waste Description is attached as a separate document*

Describe the source of contaminants and materials used to generate the waste. Please be as specific and detailed as possible.

Detailed waste descriptions were provided in a FTP transmission on March 28, 2019. Enclosure C of that transmission was a letter from the NYSDEC approving a Contained-In Determination request for this soil that allows the soil to be managed as a non-hazardous waste.

Describe all hazardous or nuisance properties associated with the waste:

N/A

Describe any special handling or disposal procedures:

Requesting disposal at Subtitle D landfill

Consistency at 70°F: ■ Solid; ☐ Semi-Solid; ☐ Sludge; ☐ Liquid; ☐ Powder; ☐ Other See Attached analytical

Ignitable (per 40 CFR 262.21): ☐ Yes ☒ No

Reactive (per 40 CFR 262.23): ☐ Yes ☒ No

Free Liquids: ☐ Yes ■ No

% Solids: 89% - see attached analytical report

Odor: None

pH Range: non-corrosive - see attached analytical report

Is the waste an EPA listed hazardous waste under 40 CFR 261? ☐ Yes ■ No

Is the waste non-hazardous waste from a CERCLA site? ☐ Yes ■ No

Is the waste considered hazardous in the state of origin or the state of disposal? ☐ Yes ■ No

Is the waste a treated hazardous waste, a de-listed hazardous waste or subject to land disposal restrictions (LDR) under 40 CFR 268, Subpart D? ☐ Yes ■ No

c. Analytical Data

*At a minimum, full RCRA waste characterization analysis is required (§ 40 CFR 261) unless the applicant provides acceptable justification for submittal of less comprehensive data. The **generator** is responsible for proper waste characterization.*

Is representative waste characterization analysis attached?

■ Yes → Please complete Appendix A of profile form.

☐ No → Please provide detailed explanation supporting the use of generator knowledge in lieu of analysis:

VII. Generator Certification

I hereby certify that (1) I am the duly authorized representative of the generator; (2) all information submitted on this form and on supplemental materials is true and accurate; (3) the information provided herein, including any supplemental information, such as laboratory analytical, SDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed; (4) Casella can contact the laboratory directly to discuss our attached waste stream. I understand that once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Signature (Generator): (On behalf of Emersub 15, LLC)

Name (Print): David Rykaczewski Company: WSP USA Inc.

Title: Sr. Technical Manager Date: May 1, 2019

Appendix A

Additional Waste Stream Information

It is the Generator's responsibility to properly characterize the waste and demonstrate it is classified as non-hazardous by State and Federal regulations.

1. Samples

Samples collected and analyzed for waste characterization should be done in accordance with the EPA SW-846 Guidance Document and most recent approved EPA Method(s) for solid wastes.

Number of Samples: 3 Grab 2 Composite (3 grabs for VOCs, 1 composite for PCBs, and 1 composite for other parameters)

Sample Source: ____ Boring(s) ____ Test Pit(s) X Stockpiles(s) ____ Core ____ Container

Soil/remediation projects must include a site map indicating area of excavation and sample locations.

see maps and data provided in FTP transmission on 3/28/19 for more information.

2. Analysis

Please indicate all chemical analysis provided to support waste characterization. All testing must be performed by a laboratory certified in the State the waste is to be disposed in, where applicable.

Laboratory Name: AES, Inc. and Pace Analytical Laboratory Accreditation #: AES - 10709; Pace - 10888

Applicable Laboratory Report ID #'s: AES Reports 181129007 & 181107001 - Pace Report 30290853

Minimum Requirements

- ■ TCLP RCRA 8 Metals
- ■ TCLP Volatile Organic Compounds (VOCs)
- ■ TCLP Semi-Volatile Organic Compounds (SVOCs)
- ☐ TCLP Herbicides
- ☐ TCLP Pesticides
- ■ Reactive Sulfide
- ■ Reactive Cyanide
- ■ Total PCBs
- ■ % Solids (Moisture Content)
- ☐ Free Liquids (Paint Filter)
- ■ Corrosivity by pH
- ■ Ignitability / Flashpoint

Additional Requirements

- ☐ Total TPH [1]
- ☐ Total PAH's [1]
- ☐ Total Organic Halogens (TOX)
- ■ Total BTEX
- ☐ TCLP Copper [2]
- ☐ TCLP Nickel [2]
- ☐ TCLP Zinc [2]
- ☐ TCLP Vanadium [3]
- ☐ Total Sulfur/Sulfate
- ☐ TCLP PCBs
- ☐ Total Dioxins & Furans

Total Analysis AND Water Leaching Procedure (ASTM) Method D3987

- ☐ COD [2]
- ☐ Total Solids [2]
- ☐ Total Volatile Solids [2]
- ☐ Oil and Grease or Petroleum Hydrocarbons [2]
- ☐ Ammonia-Nitrogen [2]

Other

- ☐ Radiological analysis: U-238, RA-226, RA-228, TH-232, and K-40 by EPA test procedure 901.1 dry weight analysis expressed in pCi/g.
- ☐ Gamma field scans on the material and expressed in uR/hr or uRem/hr.
- ☐ Safety Data Sheets (SDS)
- ☐ Other_____

3. Generator Knowledge Statement

If the chemical analysis provided does not meet the minimum requirements, please provide an analysis waiver request with justification based on generator's knowledge of the process generating the waste.

TCLP herbicides and pesticides analyses were not run based generator knowledge of historic industrial uses of the facility and historic use of this specific area. Paint filter not analyzed based on low moisture content. TCLP SVOCs were reported as totals in AES report 181107001, which is allowable per Section 1.2 of SW-846 Method 1311.

1 VT only
2 PA only
3 ME only

#21435

Special Waste Characterization Profile

casella

I. Requested Facility *Choose all that apply*

- ☐ **Massachusetts:** Southbridge (Southbridge, MA)
- ☐ **Maine:** Hawk Ridge (Unity, ME)
- ☐ **Maine:** Juniper Ridge (Old Town, ME)
- ☐ **New Hampshire:** NCES (Bethlehem, NH)
- ☐ **Pennsylvania:** McKean (Mt. Jewett, PA)
- ☐ **Vermont:** NEWSVT (Coventry, VT)
- ■ **New York:** Chemung County (Lowman, NY)
- ☐ **New York:** Clinton County (Morrisonville, NY)
- ☐ **New York:** Grasslands (Chateaugay, NY)
- ☐ **New York:** Hyland (Angelica, NY)
- ■ **New York:** Ontario County (Stanley, NY)
- ☐ **Other:** _____

II. Generator

Name: Emersub 15, LLC

Mailing Address: c/o WSP USA Inc., 11 Stanwix Street, Suite 950

City: Pittsburgh State: PA ZIP Code: 15222

Contact Name: David Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

III. Bill To Customer ☐ *Same as Generator above*

Company Name: Ontario Specialty Contracting, Inc.

Billing Address: 333 Ganson Street

City: Buffalo State: NY ZIP Code: 14203

Contact Name: Alen Trpevski Title: Project Manager

Phone: 716-856-3333 Fax: _____ Email: atrpevski@oscinc.com

IV. Consultant/Representative

Company Name: WSP USA Inc.

Contact Name: David Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

V. Delivery and Quantity

■ ***One-Time Event*** *or* ☐ ***On-Going (Annually)***

Amount to Be Delivered (Estimated): 2000 ■ Tons ☐ Cubic Yards ☐ Other: _____

Density of Waste (Approximate): 3,500 Pounds/Cubic Yard

Delivery Vehicle: ☐ Roll-off ☐ Packer Truck ■ Tractor Trailer ☐ Vac Truck ☐ Other: _____

Hauler Name: TJ Allen Bulk Services, LLC

Mailing Address: 219 White Creek Road, Newport, NY Phone: 315-845-6777

Transporter Permit #: 6A-338 New York (for State of Disposal)

Previous Disposal Facility (Name): _____

Application Been Submitted to/Approved by Another Disposal Facility (Name): _____

VI. Waste Stream Information

Common Waste Name: Non-Hazardous Soil and Concrete from AOCs 30 and 35A

Location or Address of Waste Generation Site: 620 South Aurora Street

City: Ithaca State: NY ZIP Code: 14850 County: Tompkins

Site Type: ■ Industrial/Manufacturing ☐ Commercial ☐ Residential ☐ Institutional ☐ Municipal ☐ Other: _____

a. Waste Generation Process ☐ *Check if detailed Process Description is attached as a separate document*

Describe the waste generating process. Please be as specific and detailed as possible. Include a process flow diagram if available.

Remediation Activities, please see attached analytical data reports for further information

b. Waste Description ■ *Check if detailed Waste Description is attached as a separate document*

Describe the source of contaminants and materials used to generate the waste. Please be as specific and detailed as possible.

Detailed waste descriptions were provided in a FTP transmission on March 28, 2019.

Describe all hazardous or nuisance properties associated with the waste:

N/A

Describe any special handling or disposal procedures:

Requesting disposal at Subtitle D landfill

Consistency at 70°F: ■ Solid; ☐ Semi-Solid; ☐ Sludge; ☐ Liquid; ☐ Powder; ☐ Other See Attached analytical

Ignitable (per 40 CFR 262.21): ☐ Yes ☒ No

Reactive (per 40 CFR 262.23): ☐ Yes ☒ No

Free Liquids: ☐ Yes ■ No

% Solids: 80% to 93% (see attached analytical reports)

Odor: None

pH Range: 7.6 to 8.4 (see attached analytical reports)

Is the waste an EPA listed hazardous waste under 40 CFR 261? ☐ Yes ■ No

Is the waste non-hazardous waste from a CERCLA site? ☐ Yes ■ No

Is the waste considered hazardous in the state of origin or the state of disposal? ☐ Yes ■ No

Is the waste a treated hazardous waste, a de-listed hazardous waste or subject to land disposal restrictions (LDR) under 40 CFR 268, Subpart D? ☐ Yes ■ No

c. Analytical Data

*At a minimum, full RCRA waste characterization analysis is required (§ 40 CFR 261) unless the applicant provides acceptable justification for submittal of less comprehensive data. The **generator** is responsible for proper waste characterization.*

Is representative waste characterization analysis attached?

■ Yes → Please complete Appendix A of profile form.

☐ No → Please provide detailed explanation supporting the use of generator knowledge in lieu of analysis:

VII. Generator Certification

I hereby certify that (1) I am the duly authorized representative of the generator; (2) all information submitted on this form and on supplemental materials is true and accurate; (3) the information provided herein, including any supplemental information, such as laboratory analytical, SDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed; (4) Casella can contact the laboratory directly to discuss our attached waste stream. I understand that once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Signature (Generator): (on behalf of Emersub 15, LLC)

Name (Print): David Rykaczewski

Company: WSP USA Inc.

Title: Sr. Technical Manager

Date: May 1, 2019

Appendix A

Additional Waste Stream Information

It is the Generator's responsibility to properly characterize the waste and demonstrate it is classified as non-hazardous by State and Federal regulations.

1. Samples

Samples collected and analyzed for waste characterization should be done in accordance with the EPA SW-846 Guidance Document and most recent approved EPA Method(s) for solid wastes.

Number of Samples: 3 Grab 3 Composite (3 grabs for VOCs, 3 composites for other parameters)

Sample Source: ____ Boring(s) ____ Test Pit(s) X Stockpiles(s) ____ Core ____ Container

Soil/remediation projects must include a site map indicating area of excavation and sample locations.

See maps and data provided in FTP transmission on 3/28/19 for more information.

2. Analysis

Please indicate all chemical analysis provided to support waste characterization. All testing must be performed by a laboratory certified in the State the waste is to be disposed in, where applicable.

Laboratory Name: AES, Inc. Laboratory Accreditation #: AES - 10709

Applicable Laboratory Report ID #'s: AES Report 181205057

Minimum Requirements

- ■ TCLP RCRA 8 Metals
- ■ TCLP Volatile Organic Compounds (VOCs)
- ■ TCLP Semi-Volatile Organic Compounds (SVOCs)
- ■ TCLP Herbicides
- ■ TCLP Pesticides
- ■ Reactive Sulfide
- ■ Reactive Cyanide
- ■ Total PCBs
- ■ % Solids (Moisture Content)
- ☐ Free Liquids (Paint Filter)
- ■ Corrosivity by pH
- ☐ Ignitability / Flashpoint

Additional Requirements

- ☐ Total TPH [1]
- ☐ Total PAH's [1]
- ☐ Total Organic Halogens (TOX)
- ☐ Total BTEX
- ☐ TCLP Copper [2]
- ☐ TCLP Nickel [2]
- ☐ TCLP Zinc [2]
- ☐ TCLP Vanadium [3]
- ☐ Total Sulfur/Sulfate
- ☐ TCLP PCBs
- ☐ Total Dioxins & Furans

Total Analysis AND Water Leaching Procedure (ASTM) Method D3987

- ☐ COD [2]
- ☐ Total Solids [2]
- ☐ Total Volatile Solids [2]
- ☐ Oil and Grease or Petroleum Hydrocarbons [2]
- ☐ Ammonia-Nitrogen [2]

Other

- ☐ Radiological analysis: U-238, RA-226, RA-228, TH-232, and K-40 by EPA test procedure 901.1 dry weight analysis expressed in pCi/g.
- ☐ Gamma field scans on the material and expressed in uR/hr or uRem/hr.
- ☐ Safety Data Sheets (SDS)
- ☐ Other_____

3. Generator Knowledge Statement

If the chemical analysis provided does not meet the minimum requirements, please provide an analysis waiver request with justification based on generator's knowledge of the process generating the waste.

Ignitability was not analyzed based on generator knowledge of the historical use of the site. Paint filter not analyzed based on low moisture content.

1 VT only
2 PA only
3 ME only

Special Waste Characterization Profile

casella

#21435 - AOC 29, AOC 35C, AOC 35H
Soil for Disposal

I. Requested Facility *Choose all that apply*

- ☐ **Massachusetts:** Southbridge (Southbridge, MA)
- ☐ **Maine:** Hawk Ridge (Unity, ME)
- ☐ **Maine:** Juniper Ridge (Old Town, ME)
- ☐ **New Hampshire:** NCES (Bethlehem, NH)
- ☐ **Pennsylvania:** McKean (Mt. Jewett, PA)
- ☐ **Vermont:** NEWSVT (Coventry, VT)
- ■ **New York:** Chemung County (Lowman, NY)
- ☐ **New York:** Clinton County (Morrisonville, NY)
- ☐ **New York:** Grasslands (Chateaugay, NY)
- ☐ **New York:** Hyland (Angelica, NY)
- ■ **New York:** Ontario County (Stanley, NY)
- ☐ **Other:** _____

II. Generator

Name: Emersub 15, LLC
Mailing Address: c/o WSP USA Inc., 11 Stanwix Street, Suite 950
City: Pittsburgh State: PA ZIP Code: 15222
Contact Name: David Rykaczewski Title: Sr. Technical Manager
Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

III. Bill To Customer ☐ *Same as Generator above*

Company Name: Ontario Specialty Contracting, Inc.
Billing Address: 333 Ganson Street
City: Buffalo State: NY ZIP Code: 14203
Contact Name: Alen Trpevski Title: Project Manager
Phone: 716-856-3333 Fax: _____ Email: atrpevski@oscinc.com

IV. Consultant/Representative

Company Name: WSP USA Inc.
Contact Name: David Rykaczewski Title: Sr. Technical Manager
Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

V. Delivery and Quantity *Est. 2,400 tons ■ ***One-Time Event*** *or* ☐ ***On-Going (Annually)***

Amount to Be Delivered (Estimated): ~~7000~~ ■ Tons ☐ Cubic Yards ☐ Other: _____
Density of Waste (Approximate): 3,500 Pounds/Cubic Yard
Delivery Vehicle: ☐ Roll-off ☐ Packer Truck ■ Tractor Trailer ☐ Vac Truck ☐ Other: _____
Hauler Name: TJ Allen Bulk Services, LLC
Mailing Address: 219 White Creek Road, Newport, NY Phone: 315-845-6777
Transporter Permit #: 6A-338 New York (for State of Disposal)
Previous Disposal Facility (Name): _____
Application Been Submitted to/Approved by Another Disposal Facility (Name): _____

VI. Waste Stream Information (*Casella Note: This disposal update includes Stockpile 29, 35C and 35H)

Common Waste Name: Non-Hazardous Soil and Concrete from AOCs ~~28, Upper and Lower~~, 29, ~~31~~, 35C, ~~35D, 35E~~, 35H
Location or Address of Waste Generation Site: 620 South Aurora Street
City: Ithaca State: NY ZIP Code: 14850 County: Tompkins
Site Type: ■ Industrial/Manufacturing ☐ Commercial ☐ Residential
☐ Institutional ☐ Municipal ☐ Other: _____

a. Waste Generation Process ☐ *Check if detailed Process Description is attached as a separate document*

Describe the waste generating process. Please be as specific and detailed as possible. Include a process flow diagram if available.

Remediation Activities, please see attached analytical data reports for further information

b. Waste Description ■ *Check if detailed Waste Description is attached as a separate document*

Describe the source of contaminants and materials used to generate the waste. Please be as specific and detailed as possible.

Detailed waste descriptions were provided in a FTP transmission on March 28, 2019.

Describe all hazardous or nuisance properties associated with the waste:

N/A

Describe any special handling or disposal procedures:

Requesting Alternate Operating Cover Disposal at Subtitle D landfill

Consistency at 70°F: ■ Solid; ☐ Semi-Solid; ☐ Sludge; ☐ Liquid; ☐ Powder; ☐ Other See Attached analytical

Ignitable (per 40 CFR 262.21): ☐ Yes ☒ No

Reactive (per 40 CFR 262.23): ☐ Yes ☒ No

Free Liquids: ☐ Yes ■ No

% Solids: 82% to 93% (see attached analytical reports)

Odor: None

pH Range: 7.9 to 8.1 (see attached analytical reports)

Is the waste an EPA listed hazardous waste under 40 CFR 261? ☐ Yes ■ No

Is the waste non-hazardous waste from a CERCLA site? ☐ Yes ■ No

Is the waste considered hazardous in the state of origin or the state of disposal? ☐ Yes ■ No

Is the waste a treated hazardous waste, a de-listed hazardous waste or subject to land disposal restrictions (LDR) under 40 CFR 268, Subpart D? ☐ Yes ■ No

c. Analytical Data

*At a minimum, full RCRA waste characterization analysis is required (§ 40 CFR 261) unless the applicant provides acceptable justification for submittal of less comprehensive data. The **generator** is responsible for proper waste characterization.*

Is representative waste characterization analysis attached?

■ Yes → Please complete Appendix A of profile form.

☐ No → Please provide detailed explanation supporting the use of generator knowledge in lieu of analysis:

VII. Generator Certification

I hereby certify that (1) I am the duly authorized representative of the generator; (2) all information submitted on this form and on supplemental materials is true and accurate; (3) the information provided herein, including any supplemental information, such as laboratory analytical, SDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed; (4) Casella can contact the laboratory directly to discuss our attached waste stream. I understand that once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Signature (Generator): (on behalf of Emersub 15, LLC)

Name (Print): David Rykaczewski Company: WSP USA Inc.

Title: Sr. Technical Manager Date: May 1, 2019

Appendix A

Additional Waste Stream Information

It is the Generator's responsibility to properly characterize the waste and demonstrate it is classified as non-hazardous by State and Federal regulations.

1. Samples

Samples collected and analyzed for waste characterization should be done in accordance with the EPA SW-846 Guidance Document and most recent approved EPA Method(s) for solid wastes.

Number of Samples: 8 Grab 12 Composite (8 grabs for VOCs, 12 composites for other parameters)

Sample Source: ____ Boring(s) ____ Test Pit(s) X Stockpiles(s) ____ Core ____ Container

Soil/remediation projects must include a site map indicating area of excavation and sample locations.
See maps and data provided in FTP transmission on 3/28/19 for more information.

2. Analysis

Please indicate all chemical analysis provided to support waste characterization. All testing must be performed by a laboratory certified in the State the waste is to be disposed in, where applicable.

Laboratory Name: AES, Inc. and Pace Analytical Laboratory Accreditation #: AES - 10709; Pace - 10888

Applicable Laboratory Report ID #'s: AES Reports 181205057 - Pace Report 30290290

Minimum Requirements

- ■ TCLP RCRA 8 Metals
- ■ TCLP Volatile Organic Compounds (VOCs)
- ■ TCLP Semi-Volatile Organic Compounds (SVOCs)
- ■ TCLP Herbicides
- ■ TCLP Pesticides
- ■ Reactive Sulfide
- ■ Reactive Cyanide
- ■ Total PCBs
- ■ % Solids (Moisture Content)
- ☐ Free Liquids (Paint Filter)
- ■ Corrosivity by pH
- ■ Ignitability / Flashpoint

Additional Requirements

- ☐ Total TPH [1]
- ■ Total PAH's [1]
- ☐ Total Organic Halogens (TOX)
- ☐ Total BTEX
- ☐ TCLP Copper [2]
- ☐ TCLP Nickel [2]
- ☐ TCLP Zinc [2]
- ☐ TCLP Vanadium [3]
- ☐ Total Sulfur/Sulfate
- ☐ TCLP PCBs
- ☐ Total Dioxins & Furans

Total Analysis AND Water Leaching Procedure (ASTM) Method D3987

- ☐ COD [2]
- ☐ Total Solids [2]
- ☐ Total Volatile Solids [2]
- ☐ Oil and Grease or Petroleum Hydrocarbons [2]
- ☐ Ammonia-Nitrogen [2]

Other

- ☐ Radiological analysis: U-238, RA-226, RA-228, TH-232, and K-40 by EPA test procedure 901.1 dry weight analysis expressed in pCi/g.
- ☐ Gamma field scans on the material and expressed in uR/hr or uRem/hr.
- ☐ Safety Data Sheets (SDS)
- ☐ Other_____

3. Generator Knowledge Statement

If the chemical analysis provided does not meet the minimum requirements, please provide an analysis waiver request with justification based on generator's knowledge of the process generating the waste.

Ignitability was not analyzed for the samples submitted under AES report 181205057 based on generator knowledge of the historical use of the site. Paint filter not analyzed based on low moisture content. Total PAHs were only reported for the samples submitted under Pace report 30290290.

1 VT only
2 PA only
3 ME only

Special Waste Characterization Profile

casella

I. Requested Facility *Choose all that apply*

- ☐ **Massachusetts:** Southbridge (Southbridge, MA)
- ☐ **Maine:** Hawk Ridge (Unity, ME)
- ☐ **Maine:** Juniper Ridge (Old Town, ME)
- ☐ **New Hampshire:** NCES (Bethlehem, NH)
- ☐ **Pennsylvania:** McKean (Mt. Jewett, PA)
- ☐ **Vermont:** NEWSVT (Coventry, VT)
- ■ **New York:** Chemung County (Lowman, NY)
- ☐ **New York:** Clinton County (Morrisonville, NY)
- ☐ **New York:** Grasslands (Chateaugay, NY)
- ☐ **New York:** Hyland (Angelica, NY)
- ■ **New York:** Ontario County (Stanley, NY)
- ☐ **Other:** _____

II. Generator

Name: Emersub 15, LLC

Mailing Address: c/o WSP USA Inc., 11 Stanwix Street, Suite 950

City: Pittsburgh State: PA ZIP Code: 15222

Contact Name: David Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

III. Bill To Customer ☐ *Same as Generator above*

Company Name: Ontario Specialty Contracting, Inc.

Billing Address: 333 Ganson Street

City: Buffalo State: NY ZIP Code: 14203

Contact Name: Alen Trpevski Title: Project Manager

Phone: 716-856-3333 Fax: _____ Email: atrpevski@oscinc.com

IV. Consultant/Representative

Company Name: WSP USA Inc.

Contact Name: David Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

V. Delivery and Quantity ■ ***One-Time Event*** *or* ☐ ***On-Going (Annually)***

Amount to Be Delivered (Estimated): 7000 ■ Tons ☐ Cubic Yards ☐ Other: _____

Density of Waste (Approximate): 3,500 Pounds/Cubic Yard

Delivery Vehicle: ☐ Roll-off ☐ Packer Truck ■ Tractor Trailer ☐ Vac Truck ☐ Other: _____

Hauler Name: TJ Allen Bulk Services, LLC

Mailing Address: 219 White Creek Road, Newport, NY Phone: 315-845-6777

Transporter Permit #: 6A-338 New York (for State of Disposal)

Previous Disposal Facility (Name): _____

Application Been Submitted to/Approved by Another Disposal Facility (Name): _____

VI. Waste Stream Information

Common Waste Name: Non-Hazardous Soil and Concrete from AOCs 28 Upper and Lower, 29, 31, 35C, 35D, 35K, 35H

Location or Address of Waste Generation Site: 620 South Aurora Street

City: Ithaca State: NY ZIP Code: 14850 County: Tompkins

Site Type: ■ Industrial/Manufacturing ☐ Commercial ☐ Residential ☐ Institutional ☐ Municipal ☐ Other: _____

a. Waste Generation Process ☐ *Check if detailed Process Description is attached as a separate document*

Describe the waste generating process. Please be as specific and detailed as possible. Include a process flow diagram if available.

Remediation Activities, please see attached analytical data reports for further information

b. Waste Description ■ *Check if detailed Waste Description is attached as a separate document*

Describe the source of contaminants and materials used to generate the waste. Please be as specific and detailed as possible.

Detailed waste descriptions were provided in a FTP transmission on March 28, 2019.

Describe all hazardous or nuisance properties associated with the waste:

N/A

Describe any special handling or disposal procedures:

Requesting Alternate Operating Cover Disposal at Subtitle D landfill

Consistency at 70°F: ■ Solid; ☐ Semi-Solid; ☐ Sludge; ☐ Liquid; ☐ Powder; ☐ Other See Attached analytical

Ignitable (per 40 CFR 262.21): ☐ Yes ☒ No

Reactive (per 40 CFR 262.23): ☐ Yes ☒ No

Free Liquids: ☐ Yes ■ No

% Solids: 82% to 93% (see attached analytical reports)

Odor: None

pH Range: 7.9 to 8.1 (see attached analytical reports)

Is the waste an EPA listed hazardous waste under 40 CFR 261? ☐ Yes ■ No

Is the waste non-hazardous waste from a CERCLA site? ☐ Yes ■ No

Is the waste considered hazardous in the state of origin or the state of disposal? ☐ Yes ■ No

Is the waste a treated hazardous waste, a de-listed hazardous waste or subject to land disposal restrictions (LDR) under 40 CFR 268, Subpart D? ☐ Yes ■ No

c. Analytical Data

*At a minimum, full RCRA waste characterization analysis is required (§ 40 CFR 261) unless the applicant provides acceptable justification for submittal of less comprehensive data. The **generator** is responsible for proper waste characterization.*

Is representative waste characterization analysis attached?

■ Yes → Please complete Appendix A of profile form.

☐ No → Please provide detailed explanation supporting the use of generator knowledge in lieu of analysis:

VII. Generator Certification

I hereby certify that (1) I am the duly authorized representative of the generator; (2) all information submitted on this form and on supplemental materials is true and accurate; (3) the information provided herein, including any supplemental information, such as laboratory analytical, SDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed; (4) Casella can contact the laboratory directly to discuss our attached waste stream. I understand that once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Signature (Generator): (on behalf of Emersub 15, LLC)

Name (Print): David Rykaczewski Company: WSP USA Inc.

Title: Sr. Technical Manager Date: May 1, 2019

Appendix A

Additional Waste Stream Information

It is the Generator's responsibility to properly characterize the waste and demonstrate it is classified as non-hazardous by State and Federal regulations.

1. Samples

Samples collected and analyzed for waste characterization should be done in accordance with the EPA SW-846 Guidance Document and most recent approved EPA Method(s) for solid wastes.

Number of Samples: 8 Grab 12 Composite (8 grabs for VOCs, 12 composites for other parameters)

Sample Source: ____ Boring(s) ____ Test Pit(s) X Stockpiles(s) ____ Core ____ Container

Soil/remediation projects must include a site map indicating area of excavation and sample locations.
See maps and data provided in FTP transmission on 3/28/19 for more information.

2. Analysis

Please indicate all chemical analysis provided to support waste characterization. All testing must be performed by a laboratory certified in the State the waste is to be disposed in, where applicable.

Laboratory Name: AES, Inc. and Pace Analytical Laboratory Accreditation #: AES - 10709; Pace - 10888

Applicable Laboratory Report ID #'s: AES Reports 181205057 - Pace Report 30290290

Minimum Requirements

- ■ TCLP RCRA 8 Metals
- ■ TCLP Volatile Organic Compounds (VOCs)
- ■ TCLP Semi-Volatile Organic Compounds (SVOCs)
- ■ TCLP Herbicides
- ■ TCLP Pesticides
- ■ Reactive Sulfide
- ■ Reactive Cyanide
- ■ Total PCBs
- ■ % Solids (Moisture Content)
- ☐ Free Liquids (Paint Filter)
- ■ Corrosivity by pH
- ■ Ignitability / Flashpoint

Additional Requirements

- ☐ Total TPH [1]
- ■ Total PAH's [1]
- ☐ Total Organic Halogens (TOX)
- ☐ Total BTEX
- ☐ TCLP Copper [2]
- ☐ TCLP Nickel [2]
- ☐ TCLP Zinc [2]
- ☐ TCLP Vanadium [3]
- ☐ Total Sulfur/Sulfate
- ☐ TCLP PCBs
- ☐ Total Dioxins & Furans

Total Analysis AND Water Leaching Procedure (ASTM) Method D3987

- ☐ COD [2]
- ☐ Total Solids [2]
- ☐ Total Volatile Solids [2]
- ☐ Oil and Grease or Petroleum Hydrocarbons [2]
- ☐ Ammonia-Nitrogen [2]

Other

- ☐ Radiological analysis: U-238, RA-226, RA-228, TH-232, and K-40 by EPA test procedure 901.1 dry weight analysis expressed in pCi/g.
- ☐ Gamma field scans on the material and expressed in uR/hr or uRem/hr.
- ☐ Safety Data Sheets (SDS)
- ☐ Other_____

3. Generator Knowledge Statement

If the chemical analysis provided does not meet the minimum requirements, please provide an analysis waiver request with justification based on generator's knowledge of the process generating the waste.

Ignitability was not analyzed for the samples submitted under AES report 181205057 based on generator knowledge of the historical use of the site. Paint filter not analyzed based on low moisture content. Total PAHs were only reported for the samples submitted under Pace report 30290290.

1 VT only
2 PA only
3 ME only

Special Waste Characterization Profile

#21435 - AOC 28 Upper, AOC 28 Lower, AOC29, AOC 35C, AOC 35H Soil for Disposal

I. Requested Facility *Choose all that apply*

- ☐ **Massachusetts:** Southbridge (Southbridge, MA)
- ☐ **Maine:** Hawk Ridge (Unity, ME)
- ☐ **Maine:** Juniper Ridge (Old Town, ME)
- ☐ **New Hampshire:** NCES (Bethlehem, NH)
- ☐ **Pennsylvania:** McKean (Mt. Jewett, PA)
- ☐ **Vermont:** NEWSVT (Coventry, VT)
- ■ **New York:** Chemung County (Lowman, NY)
- ☐ **New York:** Clinton County (Morrisonville, NY)
- ☐ **New York:** Grasslands (Chateaugay, NY)
- ☐ **New York:** Hyland (Angelica, NY)
- ■ **New York:** Ontario County (Stanley, NY)
- ☐ **Other:** _____

II. Generator

Name: Emersub 15, LLC

Mailing Address: c/o WSP USA Inc., 11 Stanwix Street, Suite 950

City: Pittsburgh State: PA ZIP Code: 15222

Contact Name: David Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

III. Bill To Customer ☐ *Same as Generator above*

Company Name: Ontario Specialty Contracting, Inc.

Billing Address: 333 Ganson Street

City: Buffalo State: NY ZIP Code: 14203

Contact Name: Alen Trpevski Title: Project Manager

Phone: 716-856-3333 Fax: _____ Email: atrpevski@oscinc.com

IV. Consultant/Representative

Company Name: WSP USA Inc.

Contact Name: David Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

V. Delivery and Quantity *Est. 3,300 tons ■ ***One-Time Event*** *or* ☐ ***On-Going (Annually)***

Amount to Be Delivered (Estimated): ~~7000~~ ■ Tons ☐ Cubic Yards ☐ Other: _____

Density of Waste (Approximate): 3,500 Pounds/Cubic Yard

Delivery Vehicle: ☐ Roll-off ☐ Packer Truck ■ Tractor Trailer ☐ Vac Truck ☐ Other: _____

Hauler Name: TJ Allen Bulk Services, LLC

Mailing Address: 219 White Creek Road, Newport, NY Phone: 315-845-6777

Transporter Permit #: 6A-338 New York (for State of Disposal)

Previous Disposal Facility (Name): _____

Application Been Submitted to/Approved by Another Disposal Facility (Name): _____

VI. Waste Stream Information (*Casella Note: This disposal update includes Stockpile 28 Upper and Lower)

Common Waste Name: Non-Hazardous Soil and Concrete from AOCs 28 Upper and Lower, 29, ~~31~~, 35C, ~~35D~~, ~~35K~~, 35H

Location or Address of Waste Generation Site: 620 South Aurora Street

City: Ithaca State: NY ZIP Code: 14850 County: Tompkins

Site Type: ■ Industrial/Manufacturing ☐ Commercial ☐ Residential ☐ Institutional ☐ Municipal ☐ Other: _____

a. Waste Generation Process ☐ *Check if detailed Process Description is attached as a separate document*

Describe the waste generating process. Please be as specific and detailed as possible. Include a process flow diagram if available.

Remediation Activities, please see attached analytical data reports for further information

b. Waste Description ■ *Check if detailed Waste Description is attached as a separate document*

Describe the source of contaminants and materials used to generate the waste. Please be as specific and detailed as possible.

Detailed waste descriptions were provided in a FTP transmission on March 28, 2019.

Describe all hazardous or nuisance properties associated with the waste:

N/A

Describe any special handling or disposal procedures:

Requesting Alternate Operating Cover Disposal at Subtitle D landfill

Consistency at 70°F: ■ Solid; ☐ Semi-Solid; ☐ Sludge; ☐ Liquid; ☐ Powder; ☐ Other See Attached analytical

Ignitable (per 40 CFR 262.21): ☐ Yes ☒ No

Reactive (per 40 CFR 262.23): ☐ Yes ☒ No

Free Liquids: ☐ Yes ■ No

% Solids: 82% to 93% (see attached analytical reports)

Odor: None

pH Range: 7.9 to 8.1 (see attached analytical reports)

Is the waste an EPA listed hazardous waste under 40 CFR 261? ☐ Yes ■ No

Is the waste non-hazardous waste from a CERCLA site? ☐ Yes ■ No

Is the waste considered hazardous in the state of origin or the state of disposal? ☐ Yes ■ No

Is the waste a treated hazardous waste, a de-listed hazardous waste or subject to land disposal restrictions (LDR) under 40 CFR 268, Subpart D? ☐ Yes ■ No

c. Analytical Data

*At a minimum, full RCRA waste characterization analysis is required (§ 40 CFR 261) unless the applicant provides acceptable justification for submittal of less comprehensive data. The **generator** is responsible for proper waste characterization.*

Is representative waste characterization analysis attached?

■ Yes → Please complete Appendix A of profile form.

☐ No → Please provide detailed explanation supporting the use of generator knowledge in lieu of analysis:

VII. Generator Certification

I hereby certify that (1) I am the duly authorized representative of the generator; (2) all information submitted on this form and on supplemental materials is true and accurate; (3) the information provided herein, including any supplemental information, such as laboratory analytical, SDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed; (4) Casella can contact the laboratory directly to discuss our attached waste stream. I understand that once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Signature (Generator): (on behalf of Emersub 15, LLC)

Name (Print): David Rykaczewski Company: WSP USA Inc.

Title: Sr. Technical Manager Date: May 1, 2019

Appendix A

Additional Waste Stream Information

It is the Generator's responsibility to properly characterize the waste and demonstrate it is classified as non-hazardous by State and Federal regulations.

1. Samples

Samples collected and analyzed for waste characterization should be done in accordance with the EPA SW-846 Guidance Document and most recent approved EPA Method(s) for solid wastes.

Number of Samples: 8 Grab 12 Composite (8 grabs for VOCs, 12 composites for other parameters)

Sample Source: ____ Boring(s) ____ Test Pit(s) X Stockpiles(s) ____ Core ____ Container

Soil/remediation projects must include a site map indicating area of excavation and sample locations.
See maps and data provided in FTP transmission on 3/28/19 for more information.

2. Analysis

Please indicate all chemical analysis provided to support waste characterization. All testing must be performed by a laboratory certified in the State the waste is to be disposed in, where applicable.

Laboratory Name: AES, Inc. and Pace Analytical Laboratory Accreditation #: AES - 10709; Pace - 10888

Applicable Laboratory Report ID #'s: AES Reports 181205057 - Pace Report 30290290

Minimum Requirements

- ■ TCLP RCRA 8 Metals
- ■ TCLP Volatile Organic Compounds (VOCs)
- ■ TCLP Semi-Volatile Organic Compounds (SVOCs)
- ■ TCLP Herbicides
- ■ TCLP Pesticides
- ■ Reactive Sulfide
- ■ Reactive Cyanide
- ■ Total PCBs
- ■ % Solids (Moisture Content)
- ☐ Free Liquids (Paint Filter)
- ■ Corrosivity by pH
- ■ Ignitability / Flashpoint

Additional Requirements

- ☐ Total TPH [1]
- ■ Total PAH's [1]
- ☐ Total Organic Halogens (TOX)
- ☐ Total BTEX
- ☐ TCLP Copper [2]
- ☐ TCLP Nickel [2]
- ☐ TCLP Zinc [2]
- ☐ TCLP Vanadium [3]
- ☐ Total Sulfur/Sulfate
- ☐ TCLP PCBs
- ☐ Total Dioxins & Furans

Total Analysis AND Water Leaching Procedure (ASTM) Method D3987

- ☐ COD [2]
- ☐ Total Solids [2]
- ☐ Total Volatile Solids [2]
- ☐ Oil and Grease or Petroleum Hydrocarbons [2]
- ☐ Ammonia-Nitrogen [2]

Other

- ☐ Radiological analysis: U-238, RA-226, RA-228, TH-232, and K-40 by EPA test procedure 901.1 dry weight analysis expressed in pCi/g.
- ☐ Gamma field scans on the material and expressed in uR/hr or uRem/hr.
- ☐ Safety Data Sheets (SDS)
- ☐ Other_____

3. Generator Knowledge Statement

If the chemical analysis provided does not meet the minimum requirements, please provide an analysis waiver request with justification based on generator's knowledge of the process generating the waste.

Ignitability was not analyzed for the samples submitted under AES report 181205057 based on generator knowledge of the historical use of the site. Paint filter not analyzed based on low moisture content. Total PAHs were only reported for the samples submitted under Pace report 30290290.

1 VT only
2 PA only
3 ME only

Special Waste Characterization Profile

casella

#21437

I. Requested Facility *Choose all that apply*

- ☐ **Massachusetts:** Southbridge (Southbridge, MA)
- ☐ **Maine:** Hawk Ridge (Unity, ME)
- ☐ **Maine:** Juniper Ridge (Old Town, ME)
- ☐ **New Hampshire:** NCES (Bethlehem, NH)
- ☐ **Pennsylvania:** McKean (Mt. Jewett, PA)
- ☐ **Vermont:** NEWSVT (Coventry, VT)
- ■ **New York:** Chemung County (Lowman, NY)
- ☐ **New York:** Clinton County (Morrisonville, NY)
- ☐ **New York:** Grasslands (Chateaugay, NY)
- ☐ **New York:** Hyland (Angelica, NY)
- ■ **New York:** Ontario County (Stanley, NY)
- ☐ **Other:** _____

II. Generator

Name: Emersub 15, LLC

Mailing Address: c/o WSP USA Inc., 11 Stanwix Street, Suite 950

City: Pittsburgh State: PA ZIP Code: 15222

Contact Name: David Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

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Phone: 716-856-3333 Fax: _____ Email: atrpevski@oscinc.com

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Company Name: WSP USA Inc.

Contact Name: David Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

V. Delivery and Quantity *Est. 1,100 tons ■ ***One-Time Event*** *or* ☐ ***On-Going (Annually)***

Amount to Be Delivered (Estimated): ~~7000~~ ■ Tons ☐ Cubic Yards ☐ Other: _____

Density of Waste (Approximate): 3,500 Pounds/Cubic Yard

Delivery Vehicle: ☐ Roll-off ☐ Packer Truck ■ Tractor Trailer ☐ Vac Truck ☐ Other: _____

Hauler Name: TJ Allen Bulk Services, LLC

Mailing Address: 219 White Creek Road, Newport, NY Phone: 315-845-6777

Transporter Permit #: 6A-338 New York (for State of Disposal)

Previous Disposal Facility (Name): _____

Application Been Submitted to/Approved by Another Disposal Facility (Name): _____

VI. Waste Stream Information (*Casella Note: This request includes Stockpile 28 U&L, 31, 35D and 35H only)

Common Waste Name: Non-Hazardous Soil ~~and Concrete~~ from AOCs 28 Upper and Lower, ~~29~~, 31, ~~35C~~, 35D, ~~35K~~, 35H

Location or Address of Waste Generation Site: 620 South Aurora Street

City: Ithaca State: NY ZIP Code: 14850 County: Tompkins

Site Type: ■ Industrial/Manufacturing ☐ Commercial ☐ Residential ☐ Institutional ☐ Municipal ☐ Other: _____

a. Waste Generation Process ☐ *Check if detailed Process Description is attached as a separate document*

Describe the waste generating process. Please be as specific and detailed as possible. Include a process flow diagram if available.

Remediation Activities, please see attached analytical data reports for further information

b. Waste Description ■ *Check if detailed Waste Description is attached as a separate document*

Describe the source of contaminants and materials used to generate the waste. Please be as specific and detailed as possible.

Detailed waste descriptions were provided in a FTP transmission on March 28, 2019.

Describe all hazardous or nuisance properties associated with the waste:

N/A

Describe any special handling or disposal procedures:

Requesting Alternate Operating Cover Disposal at Subtitle D landfill

Consistency at 70°F: ■ Solid; ☐ Semi-Solid; ☐ Sludge; ☐ Liquid; ☐ Powder; ☐ Other See Attached analytical

Ignitable (per 40 CFR 262.21): ☐ Yes ☒ No

Reactive (per 40 CFR 262.23): ☐ Yes ☒ No

Free Liquids: ☐ Yes ■ No

% Solids: 82% to 93% (see attached analytical reports)

Odor: None

pH Range: 7.9 to 8.1 (see attached analytical reports)

Is the waste an EPA listed hazardous waste under 40 CFR 261? ☐ Yes ■ No

Is the waste non-hazardous waste from a CERCLA site? ☐ Yes ■ No

Is the waste considered hazardous in the state of origin or the state of disposal? ☐ Yes ■ No

Is the waste a treated hazardous waste, a de-listed hazardous waste or subject to land disposal restrictions (LDR) under 40 CFR 268, Subpart D? ☐ Yes ■ No

c. Analytical Data

*At a minimum, full RCRA waste characterization analysis is required (§ 40 CFR 261) unless the applicant provides acceptable justification for submittal of less comprehensive data. The **generator** is responsible for proper waste characterization.*

Is representative waste characterization analysis attached?

■ Yes → Please complete Appendix A of profile form.

☐ No → Please provide detailed explanation supporting the use of generator knowledge in lieu of analysis:

VII. Generator Certification

I hereby certify that (1) I am the duly authorized representative of the generator; (2) all information submitted on this form and on supplemental materials is true and accurate; (3) the information provided herein, including any supplemental information, such as laboratory analytical, SDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed; (4) Casella can contact the laboratory directly to discuss our attached waste stream. I understand that once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Signature (Generator): (on behalf of Emersub 15, LLC)

Name (Print): David Rykaczewski Company: WSP USA Inc.

Title: Sr. Technical Manager Date: May 1, 2019

Appendix A

Additional Waste Stream Information

It is the Generator's responsibility to properly characterize the waste and demonstrate it is classified as non-hazardous by State and Federal regulations.

1. Samples

Samples collected and analyzed for waste characterization should be done in accordance with the EPA SW-846 Guidance Document and most recent approved EPA Method(s) for solid wastes.

Number of Samples: 8 Grab 12 Composite (8 grabs for VOCs, 12 composites for other parameters)

Sample Source: ____ Boring(s) ____ Test Pit(s) X Stockpiles(s) ____ Core ____ Container

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2. Analysis

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Applicable Laboratory Report ID #'s: AES Reports 181205057 - Pace Report 30290290

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- ■ TCLP Herbicides
- ■ TCLP Pesticides
- ■ Reactive Sulfide
- ■ Reactive Cyanide
- ■ Total PCBs
- ■ % Solids (Moisture Content)
- ☐ Free Liquids (Paint Filter)
- ■ Corrosivity by pH
- ■ Ignitability / Flashpoint

Additional Requirements

- ☐ Total TPH [1]
- ■ Total PAH's [1]
- ☐ Total Organic Halogens (TOX)
- ☐ Total BTEX
- ☐ TCLP Copper [2]
- ☐ TCLP Nickel [2]
- ☐ TCLP Zinc [2]
- ☐ TCLP Vanadium [3]
- ☐ Total Sulfur/Sulfate
- ☐ TCLP PCBs
- ☐ Total Dioxins & Furans

Total Analysis AND Water Leaching Procedure (ASTM) Method D3987

- ☐ COD [2]
- ☐ Total Solids [2]
- ☐ Total Volatile Solids [2]
- ☐ Oil and Grease or Petroleum Hydrocarbons [2]
- ☐ Ammonia-Nitrogen [2]

Other

- ☐ Radiological analysis: U-238, RA-226, RA-228, TH-232, and K-40 by EPA test procedure 901.1 dry weight analysis expressed in pCi/g.
- ☐ Gamma field scans on the material and expressed in uR/hr or uRem/hr.
- ☐ Safety Data Sheets (SDS)
- ☐ Other_____

3. Generator Knowledge Statement

If the chemical analysis provided does not meet the minimum requirements, please provide an analysis waiver request with justification based on generator's knowledge of the process generating the waste.

Ignitability was not analyzed for the samples submitted under AES report 181205057 based on generator knowledge of the historical use of the site. Paint filter not analyzed based on low moisture content. Total PAHs were only reported for the samples submitted under Pace report 30290290.

1 VT only
2 PA only
3 ME only

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5411 I F: (585) 226-2909
www.dec.ny.gov

June 14, 2019

Ms. Karen Flanders
Special Waste Department
Casella Waste Systems, Inc.
25 Green Hills Lane
Rutland, VT 05701

Dear Ms. Flanders:

Re: Ontario County Landfill, 1879 Routes 5&20, Stanley, NY
Profile #21437-Emersub 15, LLC, 620 South Aurora St., Ithaca, NY
BUD Alternative Daily Cover Request

I have reviewed the above referenced submittal (approval request letter, special waste characterization profile form, site map, interim remedial measures work plan, lab reports, NYSDEC project summary, analytical summary table, and email from the generator). The request states that the proposed amount for which BUD designation is requested is 1,100 tons. Region 8 DMM staff have also corresponded with the Region 7 DER project manager for the referenced project.

Based on our review soils from AOC 31, AOC 35D, and AOC 35K are approved for use as BUD alternative daily cover provided the material is only used on inside slopes. Any stockpiles must be located within the lined footprint of the landfill.

Soils from AOC 28 Upper and AOC 28 Lower are not approved for BUD alternative daily cover use at this time. Based on conversation with Region 7 staff it is our understanding VOCs were the original contaminant of concern for AOC 28 Upper and Lower and that due to the nature of the fill encountered during excavation Region 7 staff requested that PAH's be run in post-excavation confirmatory samples. The Department has not been provided total VOCs data for either AOC 28 Upper or AOC 28 Lower nor total PAH data for AOC 28 lower. Further information (additional sampling, submission of existing data that was not provided, further explanation from qualified professionals, etc.) is needed for the Department to approve soils from AOC 28 Upper or AOC 28 Lower as BUD alternative daily cover.

If you have any questions concerning this letter I can be reached at 585-478-3843 or jason.boliver@dec.ny.gov.

Sincerely,

Jason Boliver
Environmental Program Specialist
Division of Materials Management

Cc: G. Maclean-NYSDEC
G. Maslanka-NYSDEC
M. Clinker-Casella
A. Dill-Casella
Special.Waste@casella.com
Walter Klinesmith-Casella

Special Waste Characterization Profile

I. Requested Facility *Choose all that apply*

- ☐ **Massachusetts:** Southbridge (Southbridge, MA)
- ☐ **Maine:** Hawk Ridge (Unity, ME)
- ☐ **Maine:** Juniper Ridge (Old Town, ME)
- ☐ **New Hampshire:** NCES (Bethlehem, NH)
- ☐ **Pennsylvania:** McKean (Mt. Jewett, PA)
- ☐ **Vermont:** NEWSVT (Coventry, VT)
- ■ **New York:** Chemung County (Lowman, NY)
- ☐ **New York:** Clinton County (Morrisonville, NY)
- ☐ **New York:** Grasslands (Chateaugay, NY)
- ☐ **New York:** Hyland (Angelica, NY)
- ■ **New York:** Ontario County (Stanley, NY)
- ☐ **Other:** _____

II. Generator

Name: Emersub 15, LLC

Mailing Address: c/o WSP USA Inc., 11 Stanwix Street, Suite 950

City: Pittsburgh State: PA ZIP Code: 15222

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

III. Bill To Customer ☐ *Same as Generator above*

Company Name: Ontario Specialty Contracting, Inc.

Billing Address: 333 Ganson Street

City: Buffalo State: NY ZIP Code: 14203

Contact Name: Alen Trpevski Title: Project Manager

Phone: 716-856-3333 Fax: _____ Email: atrpevski@oscinc.com

IV. Consultant/Representative

Company Name: WSP USA, Inc.

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

V. Delivery and Quantity

■ ***One-Time Event*** *or* ☐ ***On-Going (Annually)***

Amount to Be Delivered (Estimated): Est. 1,900 ■ Tons ☐ Cubic Yards ☐ Other: _____

Density of Waste (Approximate): 3,500 Pounds/Cubic Yard

Delivery Vehicle: ☐ Roll-off ☐ Packer Truck ■ Tractor Trailer ☐ Vac Truck ☐ Other: _____

Hauler Name: TJ Allen Bulk Services, LLC

Mailing Address: 219 White Creek Road, Newport, NY Phone: 315-845-6777

Transporter Permit #: 6A-338 New York (for State of Disposal)

Previous Disposal Facility (Name): _____

Application Been Submitted to/Approved by Another Disposal Facility (Name): _____

VI. Waste Stream Information

Common Waste Name: Non-Hazardous Soil from AOCs 26, 34 and 35L

Location or Address of Waste Generation Site: 620 South Aurora Street

City: Ithaca State: NY ZIP Code: 14850 County: Tompkins

Site Type: ■ Industrial/Manufacturing ☐ Commercial ☐ Residential ☐ Institutional ☐ Municipal ☐ Other: _____

a. Waste Generation Process ☐ *Check if detailed Process Description is attached as a separate document*

Describe the waste generating process. Please be as specific and detailed as possible. Include a process flow diagram if available.

Remediation Activities, please see attached analytical reports for further information

b. Waste Description ■ *Check if detailed Waste Description is attached as a separate document*

Describe the source of contaminants and materials used to generate the waste. Please be as specific and detailed as possible.

Detailed waste descriptions were provided in a FTP transmission on March 28, 2019

Describe all hazardous or nuisance properties associated with the waste:

N/A

Describe any special handling or disposal procedures:

Requesting alternate operating cover disposal at Subtitle D landfill for soil from AOCs 26 and 35L, approximately 1,400 tons; requesting direct disposal at Subtitle D landfill for soil from AOC 34, approximately 500 tons

Consistency at 70°F: ■ Solid; ☐ Semi-Solid; ☐ Sludge; ☐ Liquid; ☐ Powder; ☐ Other _____

Ignitable (per 40 CFR 262.21): ☐ Yes ☒ No

Reactive (per 40 CFR 262.23): ☐ Yes ☒ No

Free Liquids: ☐ Yes ■ No

% Solids: See attached analytical reports

Odor: None

pH Range: AOC26-1 (8.9), AOC26-2 (8.5), AOC35L (8.1), AOC 34 (8.3)

Is the waste an EPA listed hazardous waste under 40 CFR 261? ☐ Yes ■ No

Is the waste non-hazardous waste from a CERCLA site? ☐ Yes ■ No

Is the waste considered hazardous in the state of origin or the state of disposal? ☐ Yes ■ No

Is the waste a treated hazardous waste, a de-listed hazardous waste or subject to land disposal restrictions (LDR) under 40 CFR 268, Subpart D? ☐ Yes ■ No

c. Analytical Data

*At a minimum, full RCRA waste characterization analysis is required (§ 40 CFR 261) unless the applicant provides acceptable justification for submittal of less comprehensive data. The **generator** is responsible for proper waste characterization.*

Is representative waste characterization analysis attached?

■ Yes → Please complete Appendix A of profile form.

☐ No → Please provide detailed explanation supporting the use of generator knowledge in lieu of analysis:

VII. Generator Certification

I hereby certify that (1) I am the duly authorized representative of the generator; (2) all information submitted on this form and on supplemental materials is true and accurate; (3) the information provided herein, including any supplemental information, such as laboratory analytical, SDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed; (4) Casella can contact the laboratory directly to discuss our attached waste stream. I understand that once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Signature (Generator): _____ (on behalf of Emersub 15, LLC)

Name (Print): Dave Rykaczewski Company: WSP USA Inc.

Title: Sr. Technical Manager Date: 07/10/19

Appendix A

Additional Waste Stream Information

It is the Generator's responsibility to properly characterize the waste and demonstrate it is classified as non-hazardous by State and Federal regulations.

1. Samples

Samples collected and analyzed for waste characterization should be done in accordance with the EPA SW-846 Guidance Document and most recent approved EPA Method(s) for solid wastes.

(5 grabs for VOCs,4 composites for other parameters)

Number of Samples: 5 Grab 4 Composite

Sample Source: ____ Boring(s) ____ Test Pit(s) X Stockpiles(s) ____ Core ____ Container

Soil/remediation projects must include a site map indicating area of excavation and sample locations.

2. Analysis

Please indicate all chemical analysis provided to support waste characterization. All testing must be performed by a laboratory certified in the State the waste is to be disposed in, where applicable.

Laboratory Name: Pace Analytical Laboratory Accreditation #: 10888

Applicable Laboratory Report ID #'s: Pace Analytical Reports: 30300161 (AOC 26); 30298231 (AOCs 34 and 35L)

Minimum Requirements

- ■ TCLP RCRA 8 Metals
- ■ TCLP Volatile Organic Compounds (VOCs)
- ■ TCLP Semi-Volatile Organic Compounds (SVOCs)
- ■ TCLP Herbicides
- ■ TCLP Pesticides
- ■ Reactive Sulfide
- ■ Reactive Cyanide
- ■ Total PCBs
- ■ % Solids (Moisture Content)
- ☐ Free Liquids (Paint Filter)
- ■ Corrosivity by pH
- ■ Ignitability / Flashpoint

Additional Requirements

- ☐ Total TPH [1]
- ■ Total PAH's [1]
- ☐ Total Organic Halogens (TOX)
- ☐ Total BTEX
- ☐ TCLP Copper [2]
- ☐ TCLP Nickel [2]
- ☐ TCLP Zinc [2]
- ☐ TCLP Vanadium [3]
- ☐ Total Sulfur/Sulfate
- ☐ TCLP PCBs
- ☐ Total Dioxins & Furans

Total Analysis AND Water Leaching Procedure (ASTM) Method D3987

- ☐ COD [2]
- ☐ Total Solids [2]
- ☐ Total Volatile Solids [2]
- ☐ Oil and Grease or Petroleum Hydrocarbons [2]
- ☐ Ammonia-Nitrogen [2]

Other

- ☐ Radiological analysis: U-238, RA-226, RA-228, TH-232, and K-40 by EPA test procedure 901.1 dry weight analysis expressed in pCi/g.
- ☐ Gamma field scans on the material and expressed in uR/hr or uRem/hr.
- ☐ Safety Data Sheets (SDS)
- ☐ Other_____

3. Generator Knowledge Statement

If the chemical analysis provided does not meet the minimum requirements, please provide an analysis waiver request with justification based on generator's knowledge of the process generating the waste.

Paint filter not analyzed based on low moisture content; samples collected from AOC 26 were not analyzed for TCLP pesticides and TCLP herbicides based on generator knowledge of the historical use of this area of the site.

1 VT only
2 PA only
3 ME only

Special Waste Characterization Profile

casella

I. Requested Facility *Choose all that apply*

- ☐ **Massachusetts:** Southbridge (Southbridge, MA)
- ☐ **Maine:** Hawk Ridge (Unity, ME)
- ☐ **Maine:** Juniper Ridge (Old Town, ME)
- ☐ **New Hampshire:** NCES (Bethlehem, NH)
- ☐ **Pennsylvania:** McKean (Mt. Jewett, PA)
- ☐ **Vermont:** NEWSVT (Coventry, VT)
- ■ **New York:** Chemung County (Lowman, NY)
- ☐ **New York:** Clinton County (Morrisonville, NY)
- ☐ **New York:** Grasslands (Chateaugay, NY)
- ☐ **New York:** Hyland (Angelica, NY)
- ■ **New York:** Ontario County (Stanley, NY)
- ☐ **Other:** _____

II. Generator

Name: Emersub 15, LLC

Mailing Address: c/o WSP USA Inc., 11 Stanwix Street, Suite 950

City: Pittsburgh State: PA ZIP Code: 15222

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

III. Bill To Customer ☐ *Same as Generator above*

Company Name: Ontario Specialty Contracting, Inc.

Billing Address: 333 Ganson Street

City: Buffalo State: NY ZIP Code: 14203

Contact Name: Alen Trpevski Title: Project Manager

Phone: 716-856-3333 Fax: _____ Email: atrpevski@oscinc.com

IV. Consultant/Representative

Company Name: WSP USA, Inc.

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

V. Delivery and Quantity

*1,000 tons from AOC 26

■ ***One-Time Event*** *or* ☐ ***On-Going (Annually)***

Amount to Be Delivered (Estimated): ~~Est. 1,900~~ ■ Tons ☐ Cubic Yards ☐ Other: _____

Density of Waste (Approximate): 3,500 Pounds/Cubic Yard

Delivery Vehicle: ☐ Roll-off ☐ Packer Truck ■ Tractor Trailer ☐ Vac Truck ☐ Other: _____

Hauler Name: TJ Allen Bulk Services, LLC

Mailing Address: 219 White Creek Road, Newport, NY Phone: 315-845-6777

Transporter Permit #: 6A-338 New York (for State of Disposal)

Previous Disposal Facility (Name): _____

Application Been Submitted to/Approved by Another Disposal Facility (Name): _____

VI. Waste Stream Information

*Only Soil from AOC 26 is approved for ADC per DEC Approval Letter 7/15/19

Common Waste Name: Non-Hazardous Soil from AOCs 26, ~~34 and 35L~~

Location or Address of Waste Generation Site: 620 South Aurora Street

City: Ithaca State: NY ZIP Code: 14850 County: Tompkins

Site Type: ■ Industrial/Manufacturing ☐ Commercial ☐ Residential ☐ Institutional ☐ Municipal ☐ Other: _____

*Notes Made by Casella 7/15/2019.

a. Waste Generation Process ☐ *Check if detailed Process Description is attached as a separate document*

Describe the waste generating process. Please be as specific and detailed as possible. Include a process flow diagram if available.

Remediation Activities, please see attached analytical reports for further information

b. Waste Description ■ *Check if detailed Waste Description is attached as a separate document*

Describe the source of contaminants and materials used to generate the waste. Please be as specific and detailed as possible.

Detailed waste descriptions were provided in a FTP transmission on March 28, 2019

Describe all hazardous or nuisance properties associated with the waste:

N/A

Describe any special handling or disposal procedures:

Requesting alternate operating cover disposal at Subtitle D landfill for soil from AOCs 26 and 35L, approximately 1,400 tons; requesting direct disposal at Subtitle D landfill for soil from AOC 34, approximately 500 tons

Consistency at 70°F: ■ Solid; ☐ Semi-Solid; ☐ Sludge; ☐ Liquid; ☐ Powder; ☐ Other _____

Ignitable (per 40 CFR 262.21): ☐ Yes ☒ No

Reactive (per 40 CFR 262.23): ☐ Yes ☒ No

Free Liquids: ☐ Yes ■ No

% Solids: See attached analytical reports

Odor: None

pH Range: AOC26-1 (8.9), AOC26-2 (8.5), AOC35L (8.1), AOC 34 (8.3)

Is the waste an EPA listed hazardous waste under 40 CFR 261? ☐ Yes ■ No

Is the waste non-hazardous waste from a CERCLA site? ☐ Yes ■ No

Is the waste considered hazardous in the state of origin or the state of disposal? ☐ Yes ■ No

Is the waste a treated hazardous waste, a de-listed hazardous waste or subject to land disposal restrictions (LDR) under 40 CFR 268, Subpart D? ☐ Yes ■ No

c. Analytical Data

*At a minimum, full RCRA waste characterization analysis is required (§ 40 CFR 261) unless the applicant provides acceptable justification for submittal of less comprehensive data. The **generator** is responsible for proper waste characterization.*

Is representative waste characterization analysis attached?

■ Yes → Please complete Appendix A of profile form.

☐ No → Please provide detailed explanation supporting the use of generator knowledge in lieu of analysis:

VII. Generator Certification

I hereby certify that (1) I am the duly authorized representative of the generator; (2) all information submitted on this form and on supplemental materials is true and accurate; (3) the information provided herein, including any supplemental information, such as laboratory analytical, SDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed; (4) Casella can contact the laboratory directly to discuss our attached waste stream. I understand that once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Signature (Generator): _____ (on behalf of Emersub 15, LLC)

Name (Print): Dave Rykaczewski Company: WSP USA Inc.

Title: Sr. Technical Manager Date: 07/10/19

Appendix A

Additional Waste Stream Information

It is the Generator's responsibility to properly characterize the waste and demonstrate it is classified as non-hazardous by State and Federal regulations.

1. Samples

Samples collected and analyzed for waste characterization should be done in accordance with the EPA SW-846 Guidance Document and most recent approved EPA Method(s) for solid wastes.

(5 grabs for VOCs,4 composites for other parameters)

Number of Samples: 5 Grab 4 Composite

Sample Source: ____ Boring(s) ____ Test Pit(s) X Stockpiles(s) ____ Core ____ Container

Soil/remediation projects must include a site map indicating area of excavation and sample locations.

2. Analysis

Please indicate all chemical analysis provided to support waste characterization. All testing must be performed by a laboratory certified in the State the waste is to be disposed in, where applicable.

Laboratory Name: Pace Analytical Laboratory Accreditation #: 10888

Applicable Laboratory Report ID #'s: Pace Analytical Reports: 30300161 (AOC 26); 30298231 (AOCs 34 and 35L)

Minimum Requirements

- ■ TCLP RCRA 8 Metals
- ■ TCLP Volatile Organic Compounds (VOCs)
- ■ TCLP Semi-Volatile Organic Compounds (SVOCs)
- ■ TCLP Herbicides
- ■ TCLP Pesticides
- ■ Reactive Sulfide
- ■ Reactive Cyanide
- ■ Total PCBs
- ■ % Solids (Moisture Content)
- ☐ Free Liquids (Paint Filter)
- ■ Corrosivity by pH
- ■ Ignitability / Flashpoint

Additional Requirements

- ☐ Total TPH [1]
- ■ Total PAH's [1]
- ☐ Total Organic Halogens (TOX)
- ☐ Total BTEX
- ☐ TCLP Copper [2]
- ☐ TCLP Nickel [2]
- ☐ TCLP Zinc [2]
- ☐ TCLP Vanadium [3]
- ☐ Total Sulfur/Sulfate
- ☐ TCLP PCBs
- ☐ Total Dioxins & Furans

Total Analysis AND Water Leaching Procedure (ASTM) Method D3987

- ☐ COD [2]
- ☐ Total Solids [2]
- ☐ Total Volatile Solids [2]
- ☐ Oil and Grease or Petroleum Hydrocarbons [2]
- ☐ Ammonia-Nitrogen [2]

Other

- ☐ Radiological analysis: U-238, RA-226, RA-228, TH-232, and K-40 by EPA test procedure 901.1 dry weight analysis expressed in pCi/g.
- ☐ Gamma field scans on the material and expressed in uR/hr or uRem/hr.
- ☐ Safety Data Sheets (SDS)
- ☐ Other_____

3. Generator Knowledge Statement

If the chemical analysis provided does not meet the minimum requirements, please provide an analysis waiver request with justification based on generator's knowledge of the process generating the waste.

Paint filter not analyzed based on low moisture content; samples collected from AOC 26 were not analyzed for TCLP pesticides and TCLP herbicides based on generator knowledge of the historical use of this area of the site.

1 VT only
2 PA only
3 ME only

Special Waste Characterization Profile

casella

I. Requested Facility *Choose all that apply*

#21435

- ☐ **Massachusetts:** Southbridge (Southbridge, MA)
- ☐ **Maine:** Hawk Ridge (Unity, ME)
- ☐ **Maine:** Juniper Ridge (Old Town, ME)
- ☐ **New Hampshire:** NCES (Bethlehem, NH)
- ☐ **Pennsylvania:** McKean (Mt. Jewett, PA)
- ☐ **Vermont:** NEWSVT (Coventry, VT)
- ■ **New York:** Chemung County (Lowman, NY)
- ☐ **New York:** Clinton County (Morrisonville, NY)
- ☐ **New York:** Grasslands (Chateaugay, NY)
- ☐ **New York:** Hyland (Angelica, NY)
- ■ **New York:** Ontario County (Stanley, NY)
- ☐ **Other:** _____

II. Generator

Name: Emersub 15, LLC

Mailing Address: c/o WSP USA Inc., 11 Stanwix Street, Suite 950

City: Pittsburgh State: PA ZIP Code: 15222

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

III. Bill To Customer ☐ *Same as Generator above*

Company Name: Ontario Specialty Contracting, Inc.

Billing Address: 333 Ganson Street

City: Buffalo State: NY ZIP Code: 14203

Contact Name: Alen Trpevski Title: Project Manager

Phone: 716-856-3333 Fax: _____ Email: atrpevski@oscinc.com

IV. Consultant/Representative

Company Name: WSP USA, Inc.

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

AOC 34 is estimated to of be 500 tons (per email correspondence with Dave R. of WSP, sent on 6/25/19, also see page 2)

V. Delivery and Quantity ■ ***One-Time Event*** *or* ☐ ***On-Going (Annually)***

Amount to Be Delivered (Estimated): Est. 1,900 ■ Tons ☐ Cubic Yards ☐ Other: _____

Density of Waste (Approximate): 3,500 Pounds/Cubic Yard

Delivery Vehicle: ☐ Roll-off ☐ Packer Truck ■ Tractor Trailer ☐ Vac Truck ☐ Other: _____

Hauler Name: TJ Allen Bulk Services, LLC

Mailing Address: 219 White Creek Road, Newport, NY Phone: 315-845-6777

Transporter Permit #: 6A-338 New York (for State of Disposal)

Previous Disposal Facility (Name): _____

Application Been Submitted to/Approved by Another Disposal Facility (Name): _____

This form is specific to AOC 34 as this material will go for direction disposal. Waste from AOC 26 & 35L are seeking reuse as AOC

VI. Waste Stream Information

Common Waste Name: Non-Hazardous Soil from ~~AOCs 26,~~ 34 and ~~35L~~

Location or Address of Waste Generation Site: 620 South Aurora Street

City: Ithaca State: NY ZIP Code: 14850 County: Tompkins

Site Type: ■ Industrial/Manufacturing ☐ Commercial ☐ Residential ☐ Institutional ☐ Municipal ☐ Other: _____

a. Waste Generation Process ☐ *Check if detailed Process Description is attached as a separate document*

Describe the waste generating process. Please be as specific and detailed as possible. Include a process flow diagram if available.

Remediation Activities, please see attached analytical reports for further information

b. Waste Description ■ *Check if detailed Waste Description is attached as a separate document*

Describe the source of contaminants and materials used to generate the waste. Please be as specific and detailed as possible.

Detailed waste descriptions were provided in a FTP transmission on March 28, 2019

Describe all hazardous or nuisance properties associated with the waste:

N/A

Describe any special handling or disposal procedures:

Requesting alternate operating cover disposal at Subtitle D landfill for soil from AOCs 26 and 35L, approximately 1,400 tons; requesting direct disposal at Subtitle D landfill for soil from AOC 34, approximately 500 tons

Consistency at 70°F: ■ Solid; ☐ Semi-Solid; ☐ Sludge; ☐ Liquid; ☐ Powder; ☐ Other _____

Ignitable (per 40 CFR 262.21): ☐ Yes ☒ No

Reactive (per 40 CFR 262.23): ☐ Yes ☒ No

Free Liquids: ☐ Yes ■ No

% Solids: See attached analytical reports

Odor: None

pH Range: AOC26-1 (8.9), AOC26-2 (8.5), AOC35L (8.1), AOC 34 (8.3)

Is the waste an EPA listed hazardous waste under 40 CFR 261? ☐ Yes ■ No

Is the waste non-hazardous waste from a CERCLA site? ☐ Yes ■ No

Is the waste considered hazardous in the state of origin or the state of disposal? ☐ Yes ■ No

Is the waste a treated hazardous waste, a de-listed hazardous waste or subject to land disposal restrictions (LDR) under 40 CFR 268, Subpart D? ☐ Yes ■ No

c. Analytical Data

*At a minimum, full RCRA waste characterization analysis is required (§ 40 CFR 261) unless the applicant provides acceptable justification for submittal of less comprehensive data. The **generator** is responsible for proper waste characterization.*

Is representative waste characterization analysis attached?

■ Yes → Please complete Appendix A of profile form.

☐ No → Please provide detailed explanation supporting the use of generator knowledge in lieu of analysis:

VII. Generator Certification

I hereby certify that (1) I am the duly authorized representative of the generator; (2) all information submitted on this form and on supplemental materials is true and accurate; (3) the information provided herein, including any supplemental information, such as laboratory analytical, SDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed; (4) Casella can contact the laboratory directly to discuss our attached waste stream. I understand that once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Signature (Generator): _____ (on behalf of Emersub 15, LLC)

Name (Print): Dave Rykaczewski Company: WSP USA Inc.

Title: Sr. Technical Manager Date: 07/10/19

Appendix A

Additional Waste Stream Information

It is the Generator's responsibility to properly characterize the waste and demonstrate it is classified as non-hazardous by State and Federal regulations.

1. Samples

Samples collected and analyzed for waste characterization should be done in accordance with the EPA SW-846 Guidance Document and most recent approved EPA Method(s) for solid wastes.

(5 grabs for VOCs,4 composites for other parameters)

Number of Samples: 5 Grab 4 Composite

Sample Source: ____ Boring(s) ____ Test Pit(s) X Stockpiles(s) ____ Core ____ Container

Soil/remediation projects must include a site map indicating area of excavation and sample locations.

2. Analysis

Please indicate all chemical analysis provided to support waste characterization. All testing must be performed by a laboratory certified in the State the waste is to be disposed in, where applicable.

Laboratory Name: Pace Analytical Laboratory Accreditation #: 10888

Applicable Laboratory Report ID #'s: Pace Analytical Reports: 30300161 (AOC 26); 30298231 (AOCs 34 and 35L)

Minimum Requirements

- ■ TCLP RCRA 8 Metals
- ■ TCLP Volatile Organic Compounds (VOCs)
- ■ TCLP Semi-Volatile Organic Compounds (SVOCs)
- ■ TCLP Herbicides
- ■ TCLP Pesticides
- ■ Reactive Sulfide
- ■ Reactive Cyanide
- ■ Total PCBs
- ■ % Solids (Moisture Content)
- ☐ Free Liquids (Paint Filter)
- ■ Corrosivity by pH
- ■ Ignitability / Flashpoint

Additional Requirements

- ☐ Total TPH [1]
- ■ Total PAH's [1]
- ☐ Total Organic Halogens (TOX)
- ☐ Total BTEX
- ☐ TCLP Copper [2]
- ☐ TCLP Nickel [2]
- ☐ TCLP Zinc [2]
- ☐ TCLP Vanadium [3]
- ☐ Total Sulfur/Sulfate
- ☐ TCLP PCBs
- ☐ Total Dioxins & Furans

Total Analysis AND Water Leaching Procedure (ASTM) Method D3987

- ☐ COD [2]
- ☐ Total Solids [2]
- ☐ Total Volatile Solids [2]
- ☐ Oil and Grease or Petroleum Hydrocarbons [2]
- ☐ Ammonia-Nitrogen [2]

Other

- ☐ Radiological analysis: U-238, RA-226, RA-228, TH-232, and K-40 by EPA test procedure 901.1 dry weight analysis expressed in pCi/g.
- ☐ Gamma field scans on the material and expressed in uR/hr or uRem/hr.
- ☐ Safety Data Sheets (SDS)
- ☐ Other_____

3. Generator Knowledge Statement

If the chemical analysis provided does not meet the minimum requirements, please provide an analysis waiver request with justification based on generator's knowledge of the process generating the waste.

Paint filter not analyzed based on low moisture content; samples collected from AOC 26 were not analyzed for TCLP pesticides and TCLP herbicides based on generator knowledge of the historical use of this area of the site.

1 VT only
2 PA only
3 ME only

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5411 I F: (585) 226-2909
www.dec.ny.gov

#21629
AOC 26 only approved for AOC

July 15, 2019

Ms. Karen Flanders
Special Waste Department
Casella Waste Systems, Inc.
25 Green Hills Lane
Rutland, VT 05701

Dear Ms. Flanders:

Re: Ontario County Landfill, 1879 Routes 5&20, Stanley, NY
Profile #21629-Emersub 15, LLC, 620 South Aurora St., Ithaca, NY
BUD Alternative Daily Cover Request

I have reviewed the above referenced submittal (approval request letter, special waste characterization profile form, site map, lab reports, and analytical summary table). The request states that the proposed amount for which BUD designation is requested is approximately 2,000 tons.

Based on our review soils from AOC 26 are approved for use as BUD alternative daily cover provided the material is only used on inside slopes. Any stockpiles must be located within the lined footprint of the landfill.

Soils from AOC 34 and AOC 35L are not approved for BUD alternative daily cover use at this time. Sample results for these piles exhibited values exceeding the benzo(a)pyrene equivalent of 3 mg/kg. Further information (additional sampling, submission of existing data that was not provided, further explanation from qualified professionals, etc.) is needed for the Department to approve soils from AOC 34 or AOC 35L as BUD alternative daily cover.

If you have any questions concerning this letter I can be reached at 585-478-3843 or jason.boliver@dec.ny.gov.

Sincerely,
Jason Boliver
Jason Boliver
Environmental Program Specialist
Division of Materials Management

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Cc: G. Maclean-NYSDEC
G. Maslanka-NYSDEC
M. Clinker-Casella
A. Dill-Casella
Special.Waste@casella.com
Walter Klinesmith-Casella

#21706

casella

Special Waste Characterization Profile

I. Requested Facility *Choose all that apply*

- ☐ **Massachusetts:** Southbridge (Southbridge, MA)
- ☐ **Maine:** Hawk Ridge (Unity, ME)
- ☐ **Maine:** Juniper Ridge (Old Town, ME)
- ☐ **New Hampshire:** NCES (Bethlehem, NH)
- ☐ **Pennsylvania:** McKean (Mt. Jewett, PA)
- ☐ **Vermont:** NEWSVT (Coventry, VT)
- ■ **New York:** Chemung County (Lowman, NY)
- ☐ **New York:** Clinton County (Morrisonville, NY)
- ☐ **New York:** Grasslands (Chateaugay, NY)
- ☐ **New York:** Hyland (Angelica, NY)
- ■ **New York:** Ontario County (Stanley, NY)
- ☐ **Other:** _____

II. Generator

Name: Emersub 15, LLC

Mailing Address: c/o WSP USA Inc., 11 Stanwix Street, Suite 950

City: Pittsburgh State: PA ZIP Code: 15222

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

III. Bill To Customer ☐ *Same as Generator above*

Company Name: Ontario Specialty Contracting, Inc.

Billing Address: 333 Ganson Street

City: Buffalo State: NY ZIP Code: 14203

Contact Name: Alen Trpevski Title: Project Manager

Phone: 716-856-3333 Fax: _____ Email: atrpevski@oscinc.com

IV. Consultant/Representative

Company Name: WSP USA, Inc.

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

V. Delivery and Quantity

■ ***One-Time Event*** *or* ☐ ***On-Going (Annually)***

Amount to Be Delivered (Estimated): Est. 30 ■ Tons ☐ Cubic Yards ☐ Other: _____

Density of Waste (Approximate): 2,000 Pounds/Cubic Yard

Delivery Vehicle: ■ Roll-off ☐ Packer Truck ■ Tractor Trailer ☐ Vac Truck ☐ Other: _____

Hauler Name: Casella Waste Systems, Inc., Ithaca, NY

Mailing Address: _____ Phone: _____

Transporter Permit #: _____ (for State of Disposal)

Previous Disposal Facility (Name): _____

Application Been Submitted to/Approved by Another Disposal Facility (Name): _____

VI. Waste Stream Information

Common Waste Name: Non-Hazardous Railroad Ties from AOCs 26, 32, 35C, 35K, and 35L

Location or Address of Waste Generation Site: 620 South Aurora Street

City: Ithaca State: NY ZIP Code: 14850 County: Tompkins

Site Type: ■ Industrial/Manufacturing ☐ Commercial ☐ Residential

☐ Institutional ☐ Municipal ☐ Other: _____

a. Waste Generation Process ☐ *Check if detailed Process Description is attached as a separate document*

Describe the waste generating process. Please be as specific and detailed as possible. Include a process flow diagram if available.

Remediation Activities.

b. Waste Description ■ *Check if detailed Waste Description is attached as a separate document*

Describe the source of contaminants and materials used to generate the waste. Please be as specific and detailed as possible.

Railroad ties that were present within the excavated AOCs 26, 32, 35C, 35K, and 35L. Ties were uncovered during remedial activities.

Describe all hazardous or nuisance properties associated with the waste:

N/A

Describe any special handling or disposal procedures:

Seeking disposal at Subtitle D landfill

Consistency at 70°F: ■ Solid; ☐ Semi-Solid; ☐ Sludge; ☐ Liquid; ☐ Powder; ☐ Other _____

Ignitable (per 40 CFR 262.21): ☐ Yes ☒ No

Reactive (per 40 CFR 262.23): ☐ Yes ☒ No

Free Liquids: ☐ Yes ■ No

% Solids: 100

Odor: None

pH Range: _____

Is the waste an EPA listed hazardous waste under 40 CFR 261? ☐ Yes ■ No

Is the waste non-hazardous waste from a CERCLA site? ☐ Yes ■ No

Is the waste considered hazardous in the state of origin or the state of disposal? ☐ Yes ■ No

Is the waste a treated hazardous waste, a de-listed hazardous waste or subject to land disposal restrictions (LDR) under 40 CFR 268, Subpart D? ☐ Yes ■ No

c. Analytical Data

At a minimum, full RCRA waste characterization analysis is required (§ 40 CFR 261) unless the applicant provides acceptable justification for submittal of less comprehensive data. The ***generator*** *is responsible for proper waste characterization.*

Is representative waste characterization analysis attached?

☐ Yes → Please complete Appendix A of profile form.

■ No → Please provide detailed explanation supporting the use of generator knowledge in lieu of analysis:

Railroad ties are not hazardous based on knowledge of waste TCLP testing of pentachlorophenol and creosote treated wood by the Electric Power Research Institute, Association of American Railroads, and NYSDOT (See NYSDOT Engineering Bulletin 00-022, dated March 10, 2000). Any soils on railroad ties are not hazardous as indicated in approved Casella profiles 21435 (AOCs 35C and 35L), 21437 (AOC 35K), and 21629 (AOC 26) and AOC 32 soil sample results in Pace Analytical report 30313260 (see samples AOC32 Lower-1 and AOC32 Lower-2).

VII. Generator Certification

I hereby certify that (1) I am the duly authorized representative of the generator; (2) all information submitted on this form and on supplemental materials is true and accurate; (3) the information provided herein, including any supplemental information, such as laboratory analytical, SDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed; (4) Casella can contact the laboratory directly to discuss our attached waste stream. I understand that once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Signature (Generator): _____ (on behalf of Emersub 15, LLC)

Name (Print): David Rykaczewski Company: WSP USA Inc.

Title: Senior Technical Manager Date: 07/24/2019

Appendix A

Additional Waste Stream Information

It is the Generator's responsibility to properly characterize the waste and demonstrate it is classified as non-hazardous by State and Federal regulations.

1. Samples

Samples collected and analyzed for waste characterization should be done in accordance with the EPA SW-846 Guidance Document and most recent approved EPA Method(s) for solid wastes.

Number of Samples: ____ Grab ____ Composite

Sample Source: ____ Boring(s) ____ Test Pit(s) ____ Stockpiles(s) ____ Core ____ Container

Soil/remediation projects must include a site map indicating area of excavation and sample locations.

2. Analysis

Please indicate all chemical analysis provided to support waste characterization. All testing must be performed by a laboratory certified in the State the waste is to be disposed in, where applicable.

Laboratory Name: _____ Laboratory Accreditation #: _____

Applicable Laboratory Report ID #'s: _____

Minimum Requirements

- ☐ TCLP RCRA 8 Metals
- ☐ TCLP Volatile Organic Compounds (VOCs)
- ☐ TCLP Semi-Volatile Organic Compounds (SVOCs)
- ☐ TCLP Herbicides
- ☐ TCLP Pesticides
- ☐ Reactive Sulfide
- ☐ Reactive Cyanide
- ☐ Total PCBs
- ☐ % Solids (Moisture Content)
- ☐ Free Liquids (Paint Filter)
- ☐ Corrosivity by pH
- ☐ Ignitability / Flashpoint

Additional Requirements

- ☐ Total TPH [1]
- ☐ Total PAH's [1]
- ☐ Total Organic Halogens (TOX)
- ☐ Total BTEX
- ☐ TCLP Copper [2]
- ☐ TCLP Nickel [2]
- ☐ TCLP Zinc [2]
- ☐ TCLP Vanadium [3]
- ☐ Total Sulfur/Sulfate
- ☐ TCLP PCBs
- ☐ Total Dioxins & Furans

Total Analysis AND Water Leaching Procedure (ASTM) Method D3987

- ☐ COD [2]
- ☐ Total Solids [2]
- ☐ Total Volatile Solids [2]
- ☐ Oil and Grease or Petroleum Hydrocarbons [2]
- ☐ Ammonia-Nitrogen [2]

Other

- ☐ Radiological analysis: U-238, RA-226, RA-228, TH-232, and K-40 by EPA test procedure 901.1 dry weight analysis expressed in pCi/g.
- ☐ Gamma field scans on the material and expressed in uR/hr or uRem/hr.
- ☐ Safety Data Sheets (SDS)
- ☐ Other_____

3. Generator Knowledge Statement

If the chemical analysis provided does not meet the minimum requirements, please provide an analysis waiver request with justification based on generator's knowledge of the process generating the waste.

Railroad ties are not hazardous based on knowledge of waste TCLP testing of pentachlorophenol and creosote treated wood by the Electric Power Research Institute, Association of American Railroads, and NYSDOT (See NYSDOT Engineering Bulletin 00-022, dated March 10, 2000). Any soils on railroad ties are not hazardous as indicated in approved Casella profiles 21435 (AOCs 35C and 35L), 21437 (AOC 35K), and 21629 (AOC 26) and AOC 32 soil sample results in Pace Analytical report 30313260 (see samples AOC32 Lower-1 and AOC32 Lower-2).

1 VT only
2 PA only
3 ME only

Special Waste Characterization Profile

casella

I. Requested Facility *Choose all that apply*

- ☐ **Massachusetts:** Southbridge (Southbridge, MA)
- ☐ **Maine:** Hawk Ridge (Unity, ME)
- ☐ **Maine:** Juniper Ridge (Old Town, ME)
- ☐ **New Hampshire:** NCES (Bethlehem, NH)
- ☐ **Pennsylvania:** McKean (Mt. Jewett, PA)
- ☐ **Vermont:** NEWSVT (Coventry, VT)
- ■ **New York:** Chemung County (Lowman, NY)
- ☐ **New York:** Clinton County (Morrisonville, NY)
- ☐ **New York:** Grasslands (Chateaugay, NY)
- ☐ **New York:** Hyland (Angelica, NY)
- ■ **New York:** Ontario County (Stanley, NY)
- ☐ **Other:** _____

II. Generator

Name: Emersub 15, LLC

Mailing Address: c/o WSP USA Inc., 11 Stanwix Street, Suite 950

City: Pittsburgh State: PA ZIP Code: 15222

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

III. Bill To Customer ☐ *Same as Generator above*

Company Name: Ontario Specialty Contracting, Inc.

Billing Address: 333 Ganson Street

City: Buffalo State: NY ZIP Code: 14203

Contact Name: Alen Trpevski Title: Project Manager

Phone: 716-856-3333 Fax: _____ Email: atrpevski@oscinc.com

IV. Consultant/Representative

Company Name: WSP USA Inc.

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

V. Delivery and Quantity ■ ***One-Time Event*** *or* ☐ ***On-Going (Annually)***

Amount to Be Delivered (Estimated): 1,400 ■ Tons ☐ Cubic Yards ☐ Other: _____

Density of Waste (Approximate): 3,600 Pounds/Cubic Yard

Delivery Vehicle: ☐ Roll-off ☐ Packer Truck ■ Tractor Trailer ☐ Vac Truck ☐ Other: _____

Hauler Name: TJ Allen Bulk Services, LLC

Mailing Address: 219 White Creek Road, Newport, NY Phone: 315-845-6777

Transporter Permit #: 6A-338 New York (for State of Disposal)

Previous Disposal Facility (Name): _____

Application Been Submitted to/Approved by Another Disposal Facility (Name): _____

VI. Waste Stream Information

Common Waste Name: Non-Hazardous Soil from AOC 32 and Sewer Networks 1 and 2

Location or Address of Waste Generation Site: 620 South Aurora Street

City: Ithaca State: NY ZIP Code: 14850 County: Tompkins

Site Type: ■ Industrial/Manufacturing ☐ Commercial ☐ Residential ☐ Institutional ☐ Municipal ☐ Other: _____

a. Waste Generation Process ☐ *Check if detailed Process Description is attached as a separate document*

Describe the waste generating process. Please be as specific and detailed as possible. Include a process flow diagram if available.

Remediation Activities, please see attached analytical for further information

b. Waste Description ■ *Check if detailed Waste Description is attached as a separate document*

Describe the source of contaminants and materials used to generate the waste. Please be as specific and detailed as possible.

Detailed waste descriptions for AOC 32 were provided in a FTP transmission on March 28, 2019. Wastes from the two sewer networks included excavated materials from test pits and pipe trench removal activities.

Describe all hazardous or nuisance properties associated with the waste:

N/A

Describe any special handling or disposal procedures:

Requesting approval for direct disposal of approximately 1,400 tons; 1,000 tons associated with AOC 32 and 400 tons from sewer networks 1 and 2 to be disposed of at Subtitle D landfill.

Consistency at 70°F: ■ Solid; ☐ Semi-Solid; ☐ Sludge; ☐ Liquid; ☐ Powder; ☐ Other _____

Ignitable (per 40 CFR 262.21): ☐ Yes ☒ No

Reactive (per 40 CFR 262.23): ☐ Yes ☒ No

Free Liquids: ☐ Yes ■ No

% Solids: See Attached Analytical

Odor: None

pH Range: AOC32 Lower-1 (9.6); AOC32 Lower-2 (8.0); Sewer-1 (8.4); Sewer-2 (8.6)

Is the waste an EPA listed hazardous waste under 40 CFR 261? ☐ Yes ■ No

Is the waste non-hazardous waste from a CERCLA site? ☐ Yes ■ No

Is the waste considered hazardous in the state of origin or the state of disposal? ☐ Yes ■ No

Is the waste a treated hazardous waste, a de-listed hazardous waste or subject to land disposal restrictions (LDR) under 40 CFR 268, Subpart D? ☐ Yes ■ No

c. Analytical Data

At a minimum, full RCRA waste characterization analysis is required (§ 40 CFR 261) unless the applicant provides acceptable justification for submittal of less comprehensive data. The ***generator*** *is responsible for proper waste characterization.*

Is representative waste characterization analysis attached?

■ Yes → Please complete Appendix A of profile form.

☐ No → Please provide detailed explanation supporting the use of generator knowledge in lieu of analysis:

VII. Generator Certification

I hereby certify that (1) I am the duly authorized representative of the generator; (2) all information submitted on this form and on supplemental materials is true and accurate; (3) the information provided herein, including any supplemental information, such as laboratory analytical, SDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed; (4) Casella can contact the laboratory directly to discuss our attached waste stream. I understand that once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Signature (Generator): _____ (on behalf of Emersub 15, LLC)

Name (Print): David Rykaczewski

Company: WSP USA Inc.

Title: Sr. Technical Manager

Date: 07/25/2019

Appendix A

Additional Waste Stream Information

It is the Generator's responsibility to properly characterize the waste and demonstrate it is classified as non-hazardous by State and Federal regulations.

1. Samples

Samples collected and analyzed for waste characterization should be done in accordance with the EPA SW-846 Guidance Document and most recent approved EPA Method(s) for solid wastes. **(4 grabs for VOCs, 4 Composites for other parameters)**

Number of Samples: 4 Grab 4 Composite

Sample Source: ____ Boring(s) ____ Test Pit(s) X Stockpiles(s) ____ Core ____ Container

Soil/remediation projects must include a site map indicating area of excavation and sample locations.

2. Analysis

Please indicate all chemical analysis provided to support waste characterization. All testing must be performed by a laboratory certified in the State the waste is to be disposed in, where applicable.

Laboratory Name: Pace Analytical Laboratory Accreditation #: 10888

Applicable Laboratory Report ID #'s: Pace Analytical Reports: 30313260 (AOC32 Lower-1; AOC32 Lower-2), 30313514 (Sewer-1 and Sewer-2)

Minimum Requirements

- ■ TCLP RCRA 8 Metals
- ■ TCLP Volatile Organic Compounds (VOCs)
- ■ TCLP Semi-Volatile Organic Compounds (SVOCs)
- ■ TCLP Herbicides
- ■ TCLP Pesticides
- ■ Reactive Sulfide
- ■ Reactive Cyanide
- ■ Total PCBs
- ■ % Solids (Moisture Content)
- ☐ Free Liquids (Paint Filter)
- ■ Corrosivity by pH
- ■ Ignitability / Flashpoint

Additional Requirements

- ☐ Total TPH [1]
- ■ Total PAH's [1]
- ☐ Total Organic Halogens (TOX)
- ☐ Total BTEX
- ☐ TCLP Copper [2]
- ☐ TCLP Nickel [2]
- ☐ TCLP Zinc [2]
- ☐ TCLP Vanadium [3]
- ☐ Total Sulfur/Sulfate
- ☐ TCLP PCBs
- ☐ Total Dioxins & Furans

Total Analysis AND Water Leaching Procedure (ASTM) Method D3987

- ☐ COD [2]
- ☐ Total Solids [2]
- ☐ Total Volatile Solids [2]
- ☐ Oil and Grease or Petroleum Hydrocarbons [2]
- ☐ Ammonia-Nitrogen [2]

Other

- ☐ Radiological analysis: U-238, RA-226, RA-228, TH-232, and K-40 by EPA test procedure 901.1 dry weight analysis expressed in pCi/g.
- ☐ Gamma field scans on the material and expressed in uR/hr or uRem/hr.
- ☐ Safety Data Sheets (SDS)
- ☐ Other_____

3. Generator Knowledge Statement

If the chemical analysis provided does not meet the minimum requirements, please provide an analysis waiver request with justification based on generator's knowledge of the process generating the waste.

Paint filter not analyzed based on low moisture content.

1 VT only
2 PA only
3 ME only

21435 - Add'l Tonnage

Special Waste Characterization Profile

casella

I. Requested Facility *Choose all that apply*

- ☐ **Massachusetts:** Southbridge (Southbridge, MA)
- ☐ **Maine:** Hawk Ridge (Unity, ME)
- ☐ **Maine:** Juniper Ridge (Old Town, ME)
- ☐ **New Hampshire:** NCES (Bethlehem, NH)
- ☐ **Pennsylvania:** McKean (Mt. Jewett, PA)
- ☐ **Vermont:** NEWSVT (Coventry, VT)
- ■ **New York:** Chemung County (Lowman, NY)
- ☐ **New York:** Clinton County (Morrisonville, NY)
- ☐ **New York:** Grasslands (Chateaugay, NY)
- ☐ **New York:** Hyland (Angelica, NY)
- ■ **New York:** Ontario County (Stanley, NY)
- ☐ **Other:** _____

II. Generator

Name: Emersub 15, LLC

Mailing Address: c/o WSP USA Inc., 11 Stanwix Street, Suite 950

City: Pittsburgh State: PA ZIP Code: 15222

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

III. Bill To Customer ☐ *Same as Generator above*

Company Name: Ontario Specialty Contracting, Inc.

Billing Address: 333 Ganson Street

City: Buffalo State: NY ZIP Code: 14203

Contact Name: Alen Trpevski Title: Project Manager

Phone: 716-856-3333 Fax: _____ Email: atrpevski@oscinc.com

IV. Consultant/Representative

Company Name: WSP USA Inc.

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

V. Delivery and Quantity

■ ***One-Time Event*** *or* ☐ ***On-Going (Annually)***

Amount to Be Delivered (Estimated): 1,400 ■ Tons ☐ Cubic Yards ☐ Other: _____

Density of Waste (Approximate): 3,600 Pounds/Cubic Yard

Delivery Vehicle: ☐ Roll-off ☐ Packer Truck ■ Tractor Trailer ☐ Vac Truck ☐ Other: _____

Hauler Name: TJ Allen Bulk Services, LLC

Mailing Address: 219 White Creek Road, Newport, NY Phone: 315-845-6777

Transporter Permit #: 6A-338 New York (for State of Disposal)

Previous Disposal Facility (Name): _____

Application Been Submitted to/Approved by Another Disposal Facility (Name): _____

VI. Waste Stream Information

Common Waste Name: Non-Hazardous Soil from AOC 32 and Sewer Networks 1 and 2 and Concrete*

Location or Address of Waste Generation Site: 620 South Aurora Street

City: Ithaca State: NY ZIP Code: 14850 County: Tompkins

Site Type: ■ Industrial/Manufacturing ☐ Commercial ☐ Residential ☐ Institutional ☐ Municipal ☐ Other: _____

*Per Email from Customer 7/31/2019 - includes 50 tons of concrete.

a. Waste Generation Process ☐ *Check if detailed Process Description is attached as a separate document*

Describe the waste generating process. Please be as specific and detailed as possible. Include a process flow diagram if available.

Remediation Activities, please see attached analytical for further information

b. Waste Description ■ *Check if detailed Waste Description is attached as a separate document*

Describe the source of contaminants and materials used to generate the waste. Please be as specific and detailed as possible.

Detailed waste descriptions for AOC 32 were provided in a FTP transmission on March 28, 2019. Wastes from the two sewer networks included excavated materials from test pits and pipe trench removal activities.

Describe all hazardous or nuisance properties associated with the waste:

N/A

Describe any special handling or disposal procedures:

Requesting approval for direct disposal of approximately 1,400 tons; 1,000 tons associated with AOC 32 and 400 tons from sewer networks 1 and 2 to be disposed of at Subtitle D landfill.

Consistency at 70°F: ■ Solid; ☐ Semi-Solid; ☐ Sludge; ☐ Liquid; ☐ Powder; ☐ Other _____

Ignitable (per 40 CFR 262.21): ☐ Yes ☒ No

Reactive (per 40 CFR 262.23): ☐ Yes ☒ No

Free Liquids: ☐ Yes ■ No

% Solids: See Attached Analytical

Odor: None

pH Range: AOC32 Lower-1 (9.6); AOC32 Lower-2 (8.0); Sewer-1 (8.4); Sewer-2 (8.6)

Is the waste an EPA listed hazardous waste under 40 CFR 261? ☐ Yes ■ No

Is the waste non-hazardous waste from a CERCLA site? ☐ Yes ■ No

Is the waste considered hazardous in the state of origin or the state of disposal? ☐ Yes ■ No

Is the waste a treated hazardous waste, a de-listed hazardous waste or subject to land disposal restrictions (LDR) under 40 CFR 268, Subpart D? ☐ Yes ■ No

c. Analytical Data

At a minimum, full RCRA waste characterization analysis is required (§ 40 CFR 261) unless the applicant provides acceptable justification for submittal of less comprehensive data. The ***generator*** *is responsible for proper waste characterization.*

Is representative waste characterization analysis attached?

■ Yes → Please complete Appendix A of profile form.

☐ No → Please provide detailed explanation supporting the use of generator knowledge in lieu of analysis:

VII. Generator Certification

I hereby certify that (1) I am the duly authorized representative of the generator; (2) all information submitted on this form and on supplemental materials is true and accurate; (3) the information provided herein, including any supplemental information, such as laboratory analytical, SDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed; (4) Casella can contact the laboratory directly to discuss our attached waste stream. I understand that once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Signature (Generator): _____ (on behalf of Emersub 15, LLC)

Name (Print): David Rykaczewski

Company: WSP USA Inc.

Title: Sr. Technical Manager

Date: 07/25/2019

Appendix A

Additional Waste Stream Information

It is the Generator's responsibility to properly characterize the waste and demonstrate it is classified as non-hazardous by State and Federal regulations.

1. Samples

Samples collected and analyzed for waste characterization should be done in accordance with the EPA SW-846 Guidance Document and most recent approved EPA Method(s) for solid wastes. **(4 grabs for VOCs, 4 Composites for other parameters)**

Number of Samples: 4 Grab 4 Composite

Sample Source: ____ Boring(s) ____ Test Pit(s) X Stockpiles(s) ____ Core ____ Container

Soil/remediation projects must include a site map indicating area of excavation and sample locations.

2. Analysis

Please indicate all chemical analysis provided to support waste characterization. All testing must be performed by a laboratory certified in the State the waste is to be disposed in, where applicable.

Laboratory Name: Pace Analytical Laboratory Accreditation #: 10888

Applicable Laboratory Report ID #'s: Pace Analytical Reports: 30313260 (AOC32 Lower-1; AOC32 Lower-2), 30313514 (Sewer-1 and Sewer-2)

Minimum Requirements

- ■ TCLP RCRA 8 Metals
- ■ TCLP Volatile Organic Compounds (VOCs)
- ■ TCLP Semi-Volatile Organic Compounds (SVOCs)
- ■ TCLP Herbicides
- ■ TCLP Pesticides
- ■ Reactive Sulfide
- ■ Reactive Cyanide
- ■ Total PCBs
- ■ % Solids (Moisture Content)
- ☐ Free Liquids (Paint Filter)
- ■ Corrosivity by pH
- ■ Ignitability / Flashpoint

Additional Requirements

- ☐ Total TPH [1]
- ■ Total PAH's [1]
- ☐ Total Organic Halogens (TOX)
- ☐ Total BTEX
- ☐ TCLP Copper [2]
- ☐ TCLP Nickel [2]
- ☐ TCLP Zinc [2]
- ☐ TCLP Vanadium [3]
- ☐ Total Sulfur/Sulfate
- ☐ TCLP PCBs
- ☐ Total Dioxins & Furans

Total Analysis AND Water Leaching Procedure (ASTM) Method D3987

- ☐ COD [2]
- ☐ Total Solids [2]
- ☐ Total Volatile Solids [2]
- ☐ Oil and Grease or Petroleum Hydrocarbons [2]
- ☐ Ammonia-Nitrogen [2]

Other

- ☐ Radiological analysis: U-238, RA-226, RA-228, TH-232, and K-40 by EPA test procedure 901.1 dry weight analysis expressed in pCi/g.
- ☐ Gamma field scans on the material and expressed in uR/hr or uRem/hr.
- ☐ Safety Data Sheets (SDS)
- ☐ Other_____

3. Generator Knowledge Statement

If the chemical analysis provided does not meet the minimum requirements, please provide an analysis waiver request with justification based on generator's knowledge of the process generating the waste.

Paint filter not analyzed based on low moisture content.

1 VT only
2 PA only
3 ME only

Special Waste Characterization Profile

I. Requested Facility *Choose all that apply*

- ☐ **Massachusetts:** Southbridge (Southbridge, MA)
- ☐ **Maine:** Hawk Ridge (Unity, ME)
- ☐ **Maine:** Juniper Ridge (Old Town, ME)
- ☐ **New Hampshire:** NCES (Bethlehem, NH)
- ☐ **Pennsylvania:** McKean (Mt. Jewett, PA)
- ☐ **Vermont:** NEWSVT (Coventry, VT)
- ■ **New York:** Chemung County (Lowman, NY)
- ☐ **New York:** Clinton County (Morrisonville, NY)
- ☐ **New York:** Grasslands (Chateaugay, NY)
- ☐ **New York:** Hyland (Angelica, NY)
- ■ **New York:** Ontario County (Stanley, NY)
- ☐ **Other:** _____

II. Generator

Name: Emersub 15, LLC

Mailing Address: c/o WSP USA Inc., 11 Stanwix Street, Suite 950

City: Pittsburgh State: PA ZIP Code: 15222

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: dave.rykaczewski@wsp.com

III. Bill To Customer ☐ *Same as Generator above*

Company Name: Ontario Specialty Contracting, Inc.

Billing Address: 333 Ganson Street

City: Buffalo State: NY ZIP Code: 14203

Contact Name: Alen Trpevski Title: Project Manager

Phone: 716-856-3333 Fax: _____ Email: atrpevski@oscinc.com

IV. Consultant/Representative

Company Name: WSP USA Inc.

Contact Name: Dave Rykaczewski Title: Sr. Technical Manager

Phone: 412-375-0282 Fax: _____ Email: Dave.Rykaczewski@wsp.com

V. Delivery and Quantity ■ ***One-Time Event*** *or* ☐ ***On-Going (Annually)***

Amount to Be Delivered (Estimated): 800 ■ Tons ☐ Cubic Yards ☐ Other: _____

Density of Waste (Approximate): 3600 Pounds/Cubic Yard

Delivery Vehicle: ☐ Roll-off ☐ Packer Truck ■ Tractor Trailer ☐ Vac Truck ☐ Other: _____

Hauler Name: TJ Allen Bulk Services, LLC

Mailing Address: 219 White Creek Road, Newport, NY Phone: 315-845-6777

Transporter Permit #: 6A-338 New York (for State of Disposal)

Previous Disposal Facility (Name): _____

Application Been Submitted to/Approved by Another Disposal Facility (Name): _____

VI. Waste Stream Information

Common Waste Name: Non-Hazardous Soil from AOC 32 Drainage Ditch and AOC 35G

Location or Address of Waste Generation Site: 620 S. Aurora Street

City: Ithaca State: NY ZIP Code: 14850 County: Tompkins

Site Type: ■ Industrial/Manufacturing ☐ Commercial ☐ Residential ☐ Institutional ☐ Municipal ☐ Other: _____

a. Waste Generation Process ☐ *Check if detailed Process Description is attached as a separate document*

Describe the waste generating process. Please be as specific and detailed as possible. Include a process flow diagram if available.

Remediation Activities

b. Waste Description ■ *Check if detailed Waste Description is attached as a separate document*

Describe the source of contaminants and materials used to generate the waste. Please be as specific and detailed as possible.

Detailed waste descriptions were provided in a FTP transmission on March 28, 2019

Describe all hazardous or nuisance properties associated with the waste:

N/A

Describe any special handling or disposal procedures:

Seeking direct disposal at Subtitle D landfill

Consistency at 70°F: ■ Solid; ☐ Semi-Solid; ☐ Sludge; ☐ Liquid; ☐ Powder; ☐ Other See Attached analytical

Ignitable (per 40 CFR 262.21): ☐ Yes X No

Reactive (per 40 CFR 262.23): ☐ Yes X No

Free Liquids: ☐ Yes ■ No

% Solids: 100%

Odor: None

pH Range: 7.5

Is the waste an EPA listed hazardous waste under 40 CFR 261? ☐ Yes ■ No

Is the waste non-hazardous waste from a CERCLA site? ☐ Yes ■ No

Is the waste considered hazardous in the state of origin or the state of disposal? ☐ Yes ■ No

Is the waste a treated hazardous waste, a de-listed hazardous waste or subject to land disposal restrictions (LDR) under 40 CFR 268, Subpart D? ☐ Yes ■ No

c. Analytical Data

*At a minimum, full RCRA waste characterization analysis is required (§ 40 CFR 261) unless the applicant provides acceptable justification for submittal of less comprehensive data. The **generator** is responsible for proper waste characterization.*

Is representative waste characterization analysis attached?

■ Yes → Please complete Appendix A of profile form.

☐ No → Please provide detailed explanation supporting the use of generator knowledge in lieu of analysis:

VII. Generator Certification

I hereby certify that (1) I am the duly authorized representative of the generator; (2) all information submitted on this form and on supplemental materials is true and accurate; (3) the information provided herein, including any supplemental information, such as laboratory analytical, SDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed; (4) Casella can contact the laboratory directly to discuss our attached waste stream. I understand that once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Signature (Generator): (on behalf of Emersub 15, LLC)

Name (Print): Dave Rykaczewski Company: WSP USA Inc.

Title: Sr. Technical Manager Date: 08/22/2019

Appendix A

Additional Waste Stream Information

It is the Generator's responsibility to properly characterize the waste and demonstrate it is classified as non-hazardous by State and Federal regulations.

1. Samples

Samples collected and analyzed for waste characterization should be done in accordance with the EPA SW-846 Guidance Document and most recent approved EPA Method(s) for solid wastes.

Number of Samples: 1 Grab 1 Composite **(1 grab for VOCs and 1 composite for other parameters)**

Sample Source: ____ Boring(s) ____ Test Pit(s) X Stockpiles(s) ____ Core ____ Container

Soil/remediation projects must include a site map indicating area of excavation and sample locations.

2. Analysis

Please indicate all chemical analysis provided to support waste characterization. All testing must be performed by a laboratory certified in the State the waste is to be disposed in, where applicable.

Laboratory Name: Pace Analytical Laboratory Accreditation #: 10888

Applicable Laboratory Report ID #'s: Pace Analytical Report 30318799

Minimum Requirements

- ■ TCLP RCRA 8 Metals
- ■ TCLP Volatile Organic Compounds (VOCs)
- ■ TCLP Semi-Volatile Organic Compounds (SVOCs)
- ■ TCLP Herbicides
- ■ TCLP Pesticides
- ■ Reactive Sulfide
- ■ Reactive Cyanide
- ■ Total PCBs
- ■ % Solids (Moisture Content)
- ☐ Free Liquids (Paint Filter)
- ■ Corrosivity by pH
- ■ Ignitability / Flashpoint

Additional Requirements

- ☐ Total TPH [1]
- ■ Total PAH's [1]
- ☐ Total Organic Halogens (TOX)
- ☐ Total BTEX
- ☐ TCLP Copper [2]
- ☐ TCLP Nickel [2]
- ☐ TCLP Zinc [2]
- ☐ TCLP Vanadium [3]
- ☐ Total Sulfur/Sulfate
- ☐ TCLP PCBs
- ☐ Total Dioxins & Furans

Total Analysis AND Water Leaching Procedure (ASTM) Method D3987

- ☐ COD [2]
- ☐ Total Solids [2]
- ☐ Total Volatile Solids [2]
- ☐ Oil and Grease or Petroleum Hydrocarbons [2]
- ☐ Ammonia-Nitrogen [2]

Other

- ☐ Radiological analysis: U-238, RA-226, RA-228, TH-232, and K-40 by EPA test procedure 901.1 dry weight analysis expressed in pCi/g.
- ☐ Gamma field scans on the material and expressed in uR/hr or uRem/hr.
- ☐ Safety Data Sheets (SDS)
- ☐ Other_____

3. Generator Knowledge Statement

If the chemical analysis provided does not meet the minimum requirements, please provide an analysis waiver request with justification based on generator's knowledge of the process generating the waste.

Paint filter not analyzed based on low moisture content.

1 VT only
2 PA only
3 ME only

APPENDIX

I

NON-HAZARDOUS WASTE MANIFESTS AND WEIGHT TICKETS

WASTE DISPOSAL LOG - NON-HAZARDOUS WASTE

Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, NY (a)

Shipment Date	Classification (Haz/Non-Haz)	Waste Description	Profile Number	Container Type (Drum, Dump Truck, etc.)	Load No.	Manifest No.	Transporter	Net Weight (Tons; Scale)
Seneca Meadows Landfill (Waterloo, NY)								
1/9/2019	Non-Haz	AOC 28 (Upper)	19-002	Dump Trailer	1	1	TJ Allen Bulk Services, Inc.	38.68
1/9/2019	Non-Haz	AOC 28 (Upper)	19-002	Dump Trailer	2	2	TJ Allen Bulk Services, Inc.	36.96
1/9/2019	Non-Haz	AOC 28 (Upper)	19-002	Dump Trailer	3	3	TJ Allen Bulk Services, Inc.	34.70
1/9/2019	Non-Haz	AOC 28 (Upper)	19-002	Dump Trailer	4	4	TJ Allen Bulk Services, Inc.	44.55
							Total =	154.89
Ontario County Landfill (Stanley, NY)								
5/21/2019	Non-Haz	AOC 30	21435	Dump Trailer	1	1	TJ Allen Bulk Services, Inc.	40.38
5/21/2019	Non-Haz	AOC 30	21435	Dump Trailer	2	2	Longhorn Trucking Company, Inc.	38.63
5/21/2019	Non-Haz	AOC 30	21435	Dump Trailer	3	3	Longhorn Trucking Company, Inc.	41.20
5/21/2019	Non-Haz	AOC 30	21435	Dump Trailer	4	4	TJ Allen Bulk Services, Inc.	36.96
5/21/2019	Non-Haz	AOC 30	21435	Dump Trailer	5	5	Longhorn Trucking Company, Inc.	40.06
5/21/2019	Non-Haz	AOC 30	21435	Dump Trailer	6	6	Longhorn Trucking Company, Inc.	36.45
5/21/2019	Non-Haz	AOC 30	21435	Dump Trailer	7	7	TJ Allen Bulk Services, Inc.	40.88
5/21/2019	Non-Haz	AOC 30	21435	Dump Trailer	8	8	TJ Allen Bulk Services, Inc.	38.33
5/22/2019	Non-Haz	AOC 30	21435	Dump Trailer	9	9	TJ Allen Bulk Services, Inc.	40.98
5/22/2019	Non-Haz	90% AOC 30/10% AOC 30 (Deep)	21435	Dump Trailer	10	10	Longhorn Trucking Company, Inc.	37.72
5/22/2019	Non-Haz	AOC 30 (Deep)	21435	Dump Trailer	11	11	Longhorn Trucking Company, Inc.	40.19
5/22/2019	Non-Haz	AOC 30 (Deep)	21435	Dump Trailer	12	12	Longhorn Trucking Company, Inc.	41.61
5/22/2019	Non-Haz	AOC 30 (Deep)	21435	Dump Trailer	13	13	Longhorn Trucking Company, Inc.	39.78
5/22/2019	Non-Haz	AOC 30 (Deep)	21435	Dump Trailer	14	14	TJ Allen Bulk Services, Inc.	39.50
5/22/2019	Non-Haz	10% AOC 30 (Deep)/90% AOC 35A	21435	Dump Trailer	15	15	Longhorn Trucking Company, Inc.	35.75
5/22/2019	Non-Haz	10% AOC 30 (Deep)/90% AOC 35A	21435	Dump Trailer	16	16	Longhorn Trucking Company, Inc.	35.10
5/23/2019	Non-Haz	AOC 1 Non-Haz	21434	Dump Trailer	17	17	TJ Allen Bulk Services, Inc.	38.35
5/23/2019	Non-Haz	AOC 1 Non-Haz	21434	Dump Trailer	18	18	TJ Allen Bulk Services, Inc.	41.54
5/24/2019	Non-Haz	AOC 1 Non-Haz	21434	Dump Trailer	19	19	TJ Allen Bulk Services, Inc.	37.32
5/24/2019	Non-Haz	AOC 1 Non-Haz	21434	Dump Trailer	20	20	TJ Allen Bulk Services, Inc.	38.62
6/4/2019	Non-Haz	60%AOC 35H/40% AOC 35C	21435	Dump Trailer	21	21	TJ Allen Bulk Services, Inc.	38.22
6/4/2019	Non-Haz	60% AOC 35H/40% AOC 35C	21435	Dump Trailer	22	22	TJ Allen Bulk Services, Inc.	36.01
6/4/2019	Non-Haz	60%AOC 35H/40% AOC 35C	21435	Dump Trailer	23	23	TJ Allen Bulk Services, Inc.	37.97
6/4/2019	Non-Haz	60% AOC 35H/40% AOC 35C	21435	Dump Trailer	24	24	Longhorn Trucking Company, Inc.	37.17
6/4/2019	Non-Haz	60%AOC 35H/40% AOC 35C	21435	Dump Trailer	25	25	Longhorn Trucking Company, Inc.	36.73
6/4/2019	Non-Haz	AOC29	21435	Dump Trailer	26	26	TJ Allen Bulk Services, Inc.	43.05
6/4/2019	Non-Haz	90% AOC 35H/10% AOC 35C	21435	Dump Trailer	27	27	TJ Allen Bulk Services, Inc.	38.34
6/4/2019	Non-Haz	AOC 29	21435	Dump Trailer	28	28	TJ Allen Bulk Services, Inc.	38.15
6/5/2019	Non-Haz	AOC 29	21435	Dump Trailer	29	29	TJ Allen Bulk Services, Inc.	41.31
6/5/2019	Non-Haz	AOC 29	21435	Dump Trailer	30	30	TJ Allen Bulk Services, Inc.	43.00
6/5/2019	Non-Haz	AOC 29	21435	Dump Trailer	31	31	TJ Allen Bulk Services, Inc.	40.22
6/5/2019	Non-Haz	AOC 29	21435	Dump Trailer	32	32	Longhorn Trucking Company, Inc.	39.00
6/5/2019	Non-Haz	AOC 29	21435	Dump Trailer	33	33	Longhorn Trucking Company, Inc.	40.39
6/5/2019	Non-Haz	AOC 29	21435	Dump Trailer	34	34	TJ Allen Bulk Services, Inc.	41.44
6/5/2019	Non-Haz	AOC 29	21435	Dump Trailer	35	35	Longhorn Trucking Company, Inc.	41.94
6/5/2019	Non-Haz	AOC 29	21435	Dump Trailer	36	36	TJ Allen Bulk Services, Inc.	36.32

Shipment Date	Classification (Haz/Non-Haz)	Waste Description	Profile Number	Container Type (Drum, Dump Truck, etc.)	Load No.	Manifest No.	Transporter	Net Weight (Tons; Scale)
6/5/2019	Non-Haz	AOC 29	21435	Dump Trailer	37	37	Longhorn Trucking Company, Inc.	38.44
6/5/2019	Non-Haz	AOC 29	21435	Dump Trailer	38	38	TJ Allen Bulk Services, Inc.	42.37
6/5/2019	Non-Haz	AOC 29	21435	Dump Trailer	39	39	TJ Allen Bulk Services, Inc.	44.75
6/5/2019	Non-Haz	AOC 29	21435	Dump Trailer	40	40	TJ Allen Bulk Services, Inc.	40.56
6/5/2019	Non-Haz	AOC 29	21435	Dump Trailer	41	41	TJ Allen Bulk Services, Inc.	41.39
6/6/2019	Non-Haz	AOC 29	21435	Dump Trailer	42	42	TJ Allen Bulk Services, Inc.	41.87
6/6/2019	Non-Haz	AOC 29	21435	Dump Trailer	43	43	Longhorn Trucking Company, Inc.	42.58
6/6/2019	Non-Haz	AOC 29	21435	Dump Trailer	44	44	TJ Allen Bulk Services, Inc.	39.82
6/6/2019	Non-Haz	AOC 29	21435	Dump Trailer	45	45	Longhorn Trucking Company, Inc.	38.55
6/6/2019	Non-Haz	AOC 29	21435	Dump Trailer	46	46	TJ Allen Bulk Services, Inc.	41.52
6/6/2019	Non-Haz	AOC 29	21435	Dump Trailer	47	47	Longhorn Trucking Company, Inc.	33.84
6/6/2019	Non-Haz	AOC 29	21435	Dump Trailer	48	48	TJ Allen Bulk Services, Inc.	33.20
6/6/2019	Non-Haz	AOC 29	21435	Dump Trailer	49	49	TJ Allen Bulk Services, Inc.	40.38
6/6/2019	Non-Haz	AOC 29	21435	Dump Trailer	50	50	TJ Allen Bulk Services, Inc.	41.62
6/7/2019	Non-Haz	AOC 29	21435	Dump Trailer	51	51	TJ Allen Bulk Services, Inc.	42.20
6/7/2019	Non-Haz	AOC 29	21435	Dump Trailer	52	52	TJ Allen Bulk Services, Inc.	40.48
6/7/2019	Non-Haz	AOC 29	21435	Dump Trailer	53	53	TJ Allen Bulk Services, Inc.	37.47
6/7/2019	Non-Haz	AOC 29	21435	Dump Trailer	54	54	TJ Allen Bulk Services, Inc.	44.79
6/11/2019	Non-Haz	AOC 29	21435	Dump Trailer	55	55	TJ Allen Bulk Services, Inc.	37.81
6/11/2019	Non-Haz	AOC 29	21435	Dump Trailer	56	56	TJ Allen Bulk Services, Inc.	38.92
6/11/2019	Non-Haz	AOC 29	21435	Dump Trailer	57	57	TJ Allen Bulk Services, Inc.	39.65
6/11/2019	Non-Haz	AOC 29	21435	Dump Trailer	58	58	TJ Allen Bulk Services, Inc.	42.40
6/11/2019	Non-Haz	AOC 29	21435	Dump Trailer	59	59	TJ Allen Bulk Services, Inc.	40.99
6/12/2019	Non-Haz	AOC 29	21435	Dump Trailer	60	60	TJ Allen Bulk Services, Inc.	40.55
6/12/2019	Non-Haz	AOC 29	21435	Dump Trailer	61	61	TJ Allen Bulk Services, Inc.	35.20
6/12/2019	Non-Haz	AOC 29	21435	Dump Trailer	62	62	Longhorn Trucking Company, Inc.	39.86
6/12/2019	Non-Haz	AOC 29	21435	Dump Trailer	63	63	Longhorn Trucking Company, Inc.	37.96
6/12/2019	Non-Haz	AOC 29	21435	Dump Trailer	64	64	TJ Allen Bulk Services, Inc.	39.81
6/12/2019	Non-Haz	AOC 29	21435	Dump Trailer	65	65	Longhorn Trucking Company, Inc.	37.11
6/12/2019	Non-Haz	AOC 29	21435	Dump Trailer	66	66	TJ Allen Bulk Services, Inc.	39.18
6/12/2019	Non-Haz	AOC 29	21435	Dump Trailer	67	67	TJ Allen Bulk Services, Inc.	42.35
6/12/2019	Non-Haz	AOC 29	21435	Dump Trailer	68	68	TJ Allen Bulk Services, Inc.	43.63
6/14/2019	Non-Haz	AOC 29	21435	Dump Trailer	69	69	TJ Allen Bulk Services, Inc.	41.37
6/19/2019	Non-Haz	AOC 35K	21437	Dump Trailer	70	70	TJ Allen Bulk Services, Inc.	36.53
6/19/2019	Non-Haz	75% AOC 35D/25% AOC 31	21437	Dump Trailer	71	71	TJ Allen Bulk Services, Inc.	40.00
6/19/2019	Non-Haz	AOC 31	21437	Dump Trailer	72	72	TJ Allen Bulk Services, Inc.	35.99
6/19/2019	Non-Haz	AOC 31	21437	Dump Trailer	73	73	TJ Allen Bulk Services, Inc.	42.94
6/20/2019	Non-Haz	AOC 28 (Lower)	21435	Dump Trailer	74	74	TJ Allen Bulk Services, Inc.	40.11
6/20/2019	Non-Haz	AOC 28 (Upper)	21435	Dump Trailer	75	75	TJ Allen Bulk Services, Inc.	45.53
6/20/2019	Non-Haz	AOC 28 (Lower)	21435	Dump Trailer	76	76	TJ Allen Bulk Services, Inc.	40.35
6/20/2019	Non-Haz	AOC 28 (Upper)	21435	Dump Trailer	77	77	TJ Allen Bulk Services, Inc.	37.98
6/20/2019	Non-Haz	AOC 28 (Lower)	21435	Dump Trailer	78	78	TJ Allen Bulk Services, Inc.	42.30
6/20/2019	Non-Haz	AOC 28 (Upper)	21435	Dump Trailer	79	79	TJ Allen Bulk Services, Inc.	42.38
6/25/2019	Non-Haz	AOC 28 (Lower)	21435	Dump Trailer	80	80	TJ Allen Bulk Services, Inc.	44.42
6/25/2019	Non-Haz	AOC 28 (Upper)	21435	Dump Trailer	81	81	TJ Allen Bulk Services, Inc.	43.49
6/25/2019	Non-Haz	AOC 28 (Lower)	21435	Dump Trailer	82	82	Longhorn Trucking Company, Inc.	37.08
6/25/2019	Non-Haz	AOC 28 (Upper)	21435	Dump Trailer	83	83	Longhorn Trucking Company, Inc.	37.56
6/25/2019	Non-Haz	90% AOC 28 (Upper)/10% AOC 31	21435	Dump Trailer	84	84	TJ Allen Bulk Services, Inc.	35.20

Shipment Date	Classification (Haz/Non-Haz)	Waste Description	Profile Number	Container Type (Drum, Dump Truck, etc.)	Load No.	Manifest No.	Transporter	Net Weight (Tons; Scale)
6/25/2019	Non-Haz	AOC 28 (Upper)	21435	Dump Trailer	85	85	TJ Allen Bulk Services, Inc.	41.24
6/25/2019	Non-Haz	AOC 28 (Upper)	21435	Dump Trailer	86	86	TJ Allen Bulk Services, Inc.	39.34
6/25/2019	Non-Haz	AOC 28 (Upper)	21435	Dump Trailer	87	87	TJ Allen Bulk Services, Inc.	42.68
7/9/2019	Non-Haz/Conc.	AOCs 29 and 35C (Concrete)	21435	Dump Trailer	88	88	TJ Allen Bulk Services, Inc.	33.04
7/9/2019	Non-Haz/Conc.	AOCs 29 and 35C (Concrete)	21435	Dump Trailer	89	89	TJ Allen Bulk Services, Inc.	30.68
7/9/2019	Non-Haz/Conc.	AOCs 29 and 35C (Concrete)	21435	Dump Trailer	90	90	TJ Allen Bulk Services, Inc.	39.01
7/10/2019	Non-Haz/Conc.	AOCs 29 and 35C (Concrete)	21435	Dump Trailer	91	91	TJ Allen Bulk Services, Inc.	33.75
7/10/2019	Non-Haz/Conc.	AOCs 29 and 35C (Concrete)	21435	Dump Trailer	92	92	TJ Allen Bulk Services, Inc.	22.54
7/11/2019	Non-Haz/Conc.	AOC 1 (Concrete)	21434	Dump Trailer	93	93	TJ Allen Bulk Services, Inc.	33.26
7/11/2019	Non-Haz/Conc.	AOC 1 (Concrete)	21434	Dump Trailer	94	94	TJ Allen Bulk Services, Inc.	35.72
7/16/2019	Non-Haz	AOC 34	21435	Dump Trailer	95	95	TJ Allen Bulk Services, Inc.	47.75
7/16/2019	Non-Haz	AOC 34	21435	Dump Trailer	96	96	TJ Allen Bulk Services, Inc.	45.56
7/16/2019	Non-Haz	AOC 34	21435	Dump Trailer	97	97	Longhorn Trucking Company, Inc.	34.31
7/16/2019	Non-Haz	AOC 34	21435	Dump Trailer	98	98	Longhorn Trucking Company, Inc.	40.46
7/16/2019	Non-Haz	AOC 34	21435	Dump Trailer	99	99	TJ Allen Bulk Services, Inc.	44.39
7/16/2019	Non-Haz	AOC 34	21435	Dump Trailer	100	100	TJ Allen Bulk Services, Inc.	46.19
7/16/2019	Non-Haz	AOC 34	21435	Dump Trailer	101	101	TJ Allen Bulk Services, Inc.	41.65
7/16/2019	Non-Haz	AOC 34	21435	Dump Trailer	102	102	TJ Allen Bulk Services, Inc.	46.93
7/17/2019	Non-Haz	AOC 34	21435	Dump Trailer	103	103	TJ Allen Bulk Services, Inc.	42.14
7/17/2019	Non-Haz	AOC 34	21435	Dump Trailer	104	104	TJ Allen Bulk Services, Inc.	42.51
7/17/2019	Non-Haz	AOC 34	21435	Dump Trailer	105	105	TJ Allen Bulk Services, Inc.	38.46
7/17/2019	Non-Haz	AOC 34	21435	Dump Trailer	106	106	TJ Allen Bulk Services, Inc.	43.94
7/19/2019	Non-Haz	AOC 34	21435	Dump Trailer	107	107	TJ Allen Bulk Services, Inc.	40.77
7/19/2019	Non-Haz	AOC 34	21435	Dump Trailer	108	108	TJ Allen Bulk Services, Inc.	43.50
7/19/2019	Non-Haz	85% AOC 35L/15% AOC 34	21435	Dump Trailer	109	109	TJ Allen Bulk Services, Inc.	42.48
7/19/2019	Non-Haz	AOC 35L	21435	Dump Trailer	110	110	TJ Allen Bulk Services, Inc.	37.03
7/22/2019	Non-Haz	AOC 35L	21435	Dump Trailer	111	111	TJ Allen Bulk Services, Inc.	38.83
7/23/2019	Non-Haz	AOC 35L	21435	Dump Trailer	112	112	TJ Allen Bulk Services, Inc.	39.47
7/23/2019	Non-Haz	AOC 26	21439	Dump Trailer	113	113	TJ Allen Bulk Services, Inc.	38.43
7/23/2019	Non-Haz	AOC 26	21439	Dump Trailer	114	114	TJ Allen Bulk Services, Inc.	44.44
7/23/2019	Non-Haz	AOC 26	21439	Dump Trailer	115	115	TJ Allen Bulk Services, Inc.	38.48
7/23/2019	Non-Haz	AOC 26	21439	Dump Trailer	116	116	TJ Allen Bulk Services, Inc.	44.00
7/24/2019	Non-Haz	AOC 26	21439	Dump Trailer	117	117	TJ Allen Bulk Services, Inc.	41.05
7/24/2019	Non-Haz	AOC 26	21439	Dump Trailer	118	118	TJ Allen Bulk Services, Inc.	40.63
7/24/2019	Non-Haz	AOC 26	21439	Dump Trailer	119	119	TJ Allen Bulk Services, Inc.	41.70
7/24/2019	Non-Haz	AOC 26	21439	Dump Trailer	120	120	TJ Allen Bulk Services, Inc.	39.26
7/24/2019	Non-Haz	AOC 26	21439	Dump Trailer	121	121	TJ Allen Bulk Services, Inc.	42.39
7/24/2019	Non-Haz	AOC 26	21439	Dump Trailer	122	122	TJ Allen Bulk Services, Inc.	41.10
7/25/2019	Non-Haz	AOC 26	21439	Dump Trailer	123	123	TJ Allen Bulk Services, Inc.	40.65
7/25/2019	Non-Haz	AOC 26	21439	Dump Trailer	124	124	TJ Allen Bulk Services, Inc.	40.06
7/25/2019	Non-Haz	AOC 26	21439	Dump Trailer	125	125	TJ Allen Bulk Services, Inc.	43.97
7/25/2019	Non-Haz	AOC 26	21439	Dump Trailer	126	126	TJ Allen Bulk Services, Inc.	42.90
7/26/2019	Non-Haz	AOC 26	21439	Dump Trailer	127	127	TJ Allen Bulk Services, Inc.	39.85
7/26/2019	Non-Haz	AOC 26	21439	Dump Trailer	128	128	TJ Allen Bulk Services, Inc.	41.46
7/26/2019	Non-Haz	AOC 26	21439	Dump Trailer	129	129	TJ Allen Bulk Services, Inc.	41.50
7/26/2019	Non-Haz	AOC 26	21439	Dump Trailer	130	130	TJ Allen Bulk Services, Inc.	39.02
7/29/2019	Non-Haz	AOC 26	21439	Dump Trailer	131	131	TJ Allen Bulk Services, Inc.	43.15
7/30/2019	Non-Haz	AOC 26	21439	Dump Trailer	132	132	TJ Allen Bulk Services, Inc.	42.59

Shipment Date	Classification (Haz/Non-Haz)	Waste Description	Profile Number	Container Type (Drum, Dump Truck, etc.)	Load No.	Manifest No.	Transporter	Net Weight (Tons; Scale)
7/30/2019	Non-Haz	AOC 26	21439	Dump Trailer	133	133	TJ Allen Bulk Services, Inc.	36.65
7/30/2019	Non-Haz	AOC 26	21439	Dump Trailer	134	134	TJ Allen Bulk Services, Inc.	39.12
7/30/2019	Non-Haz	AOC 26	21439	Dump Trailer	135	135	TJ Allen Bulk Services, Inc.	38.90
7/30/2019	Non-Haz	AOC 26	21439	Dump Trailer	136	136	TJ Allen Bulk Services, Inc.	39.97
7/31/2019	Non-Haz	AOC 26	21439	Dump Trailer	137	137	TJ Allen Bulk Services, Inc.	40.99
7/31/2019	Non-Haz	AOC 26	21439	Dump Trailer	138	138	TJ Allen Bulk Services, Inc.	40.27
7/31/2019	Non-Haz	AOC 26	21439	Dump Trailer	139	139	TJ Allen Bulk Services, Inc.	40.04
7/31/2019	Non-Haz	AOC 26	21439	Dump Trailer	140	140	TJ Allen Bulk Services, Inc.	40.26
8/1/2019	Non-Haz	AOC 26	21439	Dump Trailer	141	141	TJ Allen Bulk Services, Inc.	40.99
8/1/2019	Non-Haz	AOC 26	21439	Dump Trailer	142	142	TJ Allen Bulk Services, Inc.	39.59
8/1/2019	Non-Haz	AOC 26	21439	Dump Trailer	143	143	TJ Allen Bulk Services, Inc.	39.51
8/1/2019	Non-Haz	AOC 26	21439	Dump Trailer	144	144	TJ Allen Bulk Services, Inc.	34.42
8/5/2019	Non-Haz	Sewer Network 1 and 2 (Concrete)	21435	Dump Trailer	145	145	TJ Allen Bulk Services, Inc.	31.65
8/6/2019	Non-Haz	Sewer 2 (Concrete and Soils)	21435	Dump Trailer	146	146	TJ Allen Bulk Services, Inc.	33.97
8/6/2019	Non-Haz	Sewer Network 1 (Concrete and Soils)	21435	Dump Trailer	147	147	TJ Allen Bulk Services, Inc.	41.68
8/7/2019	Non-Haz	Sewer Network 1 (Pipe and Soils)	21435	Dump Trailer	148	148	TJ Allen Bulk Services, Inc.	33.41
8/7/2019	Non-Haz	Sewer 1 & 2 (Concrete and Soils)	21435	Dump Trailer	149	149	TJ Allen Bulk Services, Inc.	33.15
8/8/2019	Non-Haz	AOC 32	21435	Dump Trailer	150	150	TJ Allen Bulk Services, Inc.	38.07
8/8/2019	Non-Haz	AOC 32	21435	Dump Trailer	151	151	TJ Allen Bulk Services, Inc.	38.15
8/8/2019	Non-Haz	AOC 32	21435	Dump Trailer	152	152	TJ Allen Bulk Services, Inc.	38.97
8/9/2019	Non-Haz	AOC 32	21435	Dump Trailer	153	153	TJ Allen Bulk Services, Inc.	38.81
8/9/2019	Non-Haz	AOC 32	21435	Dump Trailer	154	154	TJ Allen Bulk Services, Inc.	39.06
8/9/2019	Non-Haz	AOC 32	21435	Dump Trailer	155	155	TJ Allen Bulk Services, Inc.	39.31
8/13/2019	Non-Haz	AOC 32	21435	Dump Trailer	156	156	TJ Allen Bulk Services, Inc.	36.70
8/13/2019	Non-Haz	AOC 32	21435	Dump Trailer	157	157	TJ Allen Bulk Services, Inc.	40.05
8/13/2019	Non-Haz	AOC 32	21435	Dump Trailer	158	158	TJ Allen Bulk Services, Inc.	42.95
8/13/2019	Non-Haz	AOC 32	21435	Dump Trailer	159	159	TJ Allen Bulk Services, Inc.	40.97
8/14/2019	Non-Haz	AOC 32	21435	Dump Trailer	160	160	TJ Allen Bulk Services, Inc.	40.59
8/14/2019	Non-Haz	AOC 32	21435	Dump Trailer	161	161	TJ Allen Bulk Services, Inc.	40.99
8/14/2019	Non-Haz	AOC 32	21435	Dump Trailer	162	162	TJ Allen Bulk Services, Inc.	37.68
8/14/2019	Non-Haz	AOC 32	21435	Dump Trailer	163	163	TJ Allen Bulk Services, Inc.	42.07
8/14/2019	Non-Haz	AOC 32	21435	Dump Trailer	164	164	TJ Allen Bulk Services, Inc.	37.99
8/15/2019	Non-Haz	AOC 32	21435	Dump Trailer	165	165	TJ Allen Bulk Services, Inc.	37.70
8/15/2019	Non-Haz	AOC 32	21435	Dump Trailer	166	166	TJ Allen Bulk Services, Inc.	39.70
8/15/2019	Non-Haz	AOC 32	21435	Dump Trailer	167	167	TJ Allen Bulk Services, Inc.	40.93
8/16/2019	Non-Haz	AOC 32	21435	Dump Trailer	168	168	TJ Allen Bulk Services, Inc.	40.08
8/16/2019	Non-Haz	AOC 32	21435	Dump Trailer	169	169	TJ Allen Bulk Services, Inc.	43.12
8/16/2019	Non-Haz	AOC 32	21435	Dump Trailer	170	170	TJ Allen Bulk Services, Inc.	39.27
8/16/2019	Non-Haz	AOC 32	21435	Dump Trailer	171	171	TJ Allen Bulk Services, Inc.	42.16
8/19/2019	Non-Haz	AOC 32	21435	Dump Trailer	172	172	TJ Allen Bulk Services, Inc.	41.90
8/20/2019	Non-Haz	AOC 32	21435	Dump Trailer	173	173	TJ Allen Bulk Services, Inc.	44.74
8/20/2019	Non-Haz	AOC 32	21435	Dump Trailer	174	174	TJ Allen Bulk Services, Inc.	41.41
8/20/2019	Non-Haz	AOC 32	21435	Dump Trailer	175	175	TJ Allen Bulk Services, Inc.	40.54
8/20/2019	Non-Haz	AOC 32	21435	Dump Trailer	176	176	TJ Allen Bulk Services, Inc.	39.98
8/20/2019	Non-Haz	AOC 32	21435	Dump Trailer	177	177	TJ Allen Bulk Services, Inc.	44.33
8/21/2019	Non-Haz	AOC 32	21435	Dump Trailer	178	178	TJ Allen Bulk Services, Inc.	41.47
8/21/2019	Non-Haz	AOC 32	21435	Dump Trailer	179	179	TJ Allen Bulk Services, Inc.	43.15
8/21/2019	Non-Haz	AOC 32	21435	Dump Trailer	180	180	TJ Allen Bulk Services, Inc.	41.16

Shipment Date	Classification (Haz/Non-Haz)	Waste Description	Profile Number	Container Type (Drum, Dump Truck, etc.)	Load No.	Manifest No.	Transporter	Net Weight (Tons; Scale)
8/22/2019	Non-Haz	AOC 32	21435	Dump Trailer	181	181	TJ Allen Bulk Services, Inc.	32.76
8/22/2019	Non-Haz	AOC 32	21435	Dump Trailer	182	182	TJ Allen Bulk Services, Inc.	41.12
8/27/2019	Non-Haz	AOC 32 Ditch (Upper)	21798	Dump Trailer	183	183	TJ Allen Bulk Services, Inc.	38.97
8/27/2019	Non-Haz	AOC 32 Ditch (Upper)	21798	Dump Trailer	184	184	TJ Allen Bulk Services, Inc.	40.85
8/27/2019	Non-Haz	AOC 35G	21798	Dump Trailer	185	185	TJ Allen Bulk Services, Inc.	42.90
8/27/2019	Non-Haz	AOC 35G	21798	Dump Trailer	186	186	TJ Allen Bulk Services, Inc.	38.57
8/28/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	187	187	TJ Allen Bulk Services, Inc.	40.76
8/28/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	188	188	TJ Allen Bulk Services, Inc.	34.50
8/28/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	189	189	TJ Allen Bulk Services, Inc.	41.48
8/28/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	190	190	TJ Allen Bulk Services, Inc.	41.72
8/28/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	191	191	TJ Allen Bulk Services, Inc.	42.79
8/28/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	192	192	TJ Allen Bulk Services, Inc.	38.56
8/28/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	193	193	TJ Allen Bulk Services, Inc.	41.32
8/29/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	194	194	TJ Allen Bulk Services, Inc.	43.23
8/29/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	195	195	TJ Allen Bulk Services, Inc.	41.42
8/29/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	196	196	TJ Allen Bulk Services, Inc.	40.58
8/29/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	197	197	TJ Allen Bulk Services, Inc.	37.41
8/29/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	198	198	TJ Allen Bulk Services, Inc.	40.20
8/29/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	199	199	TJ Allen Bulk Services, Inc.	40.34
8/30/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	200	200	TJ Allen Bulk Services, Inc.	40.61
8/30/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	201	201	TJ Allen Bulk Services, Inc.	40.71
9/3/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	202	202	TJ Allen Bulk Services, Inc.	42.07
9/4/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	203	203	TJ Allen Bulk Services, Inc.	43.01
9/4/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	204	204	TJ Allen Bulk Services, Inc.	40.13
9/5/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	205	205	TJ Allen Bulk Services, Inc.	41.70
9/5/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	206	206	TJ Allen Bulk Services, Inc.	39.95
9/6/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	207	207	TJ Allen Bulk Services, Inc.	38.36
9/6/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	208	208	TJ Allen Bulk Services, Inc.	39.93
9/10/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	209	216	TJ Allen Bulk Services, Inc.	40.48
9/11/2019	Non-Haz	AOC 32 Ditch (Lower)	21798	Dump Trailer	210	217	TJ Allen Bulk Services, Inc.	26.01
							Total =	8,358.36

a/ Shading indicates Beneficial Use Determination (BUD)

Seneca Meadows Landfill
1786 Salcman Road
Waterloo, NY 13165

INBOUND CASH

000706 ONTARIO SPECIALTY CONTRACTING
333 GANSON STREET
BUFFALO NY 14203

SITE	TICKET	GRID	WEIGHMASTER
01	00235571	WE	KRISTY

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
01/09/19	01/09/19	08:46	11:53	TJ-18	

REFERENCE	ORIGIN
19-002	TOMPKINS

Scale 1 Gross Wt. 115980 LB
Scale 3 Tare Wt. 38620 LB TRUCK EXPIRES / /
Net Weight 77360 LB LIC# CONTAINER

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
38.68	TON	CONTAMINAT SOIL				
1.00		DEC-ENV FEE				

Operating Hours Mon-Fri 6:00am-4:00pm. Sat 6:00am-11:30am.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

MANIFEST: 001

HAULER: 9999 VARIOUS HAULERS
ROUTE: 0-NONE

NET AMOUNT
0.00
CHECK NO.
OE#

WW6T1 TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATURE

T# TJ-18 , LP # 20879, TC

Non-Hazardous Waste Manifest

GENERATOR SECTION

Non-Hazardous Waste Manifest	Generator ID Number	Waste Profile Number	Waste Tracking (Manifest) Number
Contaminated Soil		19-002 (Soil)	001

Customer Billing Name and Mailing
Ontario Specialty Contracting, Inc.
333 Ganson Street
Buffalo, NY 14203
Customer Billing Phone: 716-856-3333

Generator's Site Address
Emersub 15, LLC
620 South Aurora Street
Ithaca, NY 14850
Generator's Phone: 412-375-0282

Transporter 1 Company Name	US EPA ID Number
TJ Allen Bulk Services, LLC	Part 364# 6A-338
Transporter 2 Company Name	**US EPA ID Number**
Longhorn Trucking Company, Inc.	Part 364# 4A-485

Designated Facility Name and Site Address
Seneca Meadows Landfill
1786 Salcman Road
Waterloo, NY
Facility's Phone: 315-539-5624

US EPA ID Number

Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt / Vol.	Disposal Method
1 Non Hazardous Soils	1	Dump Trailer	40 Tons		NH001
2					
3					
4					

Special Handling Instructions and Additional Information

24 Hour Emergency Response Phone

Emergency Response Guide Number

GENERATOR'S / OFFEROR'S CERTIFICATION: I hereby certify that the above-described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Generator's Offeror's Printed / Typed Name	Signature	Month	Day	Year
ON BEHALF EMERSUB 15 LLC Nate Winston	ON BEHALF OF EMERSUB 15 LLC Nate Winston	01	09	2019

TRANSPORTER SECTION

Transporter's Acknowledgement of Receipt of Materials

Transporter 1 Printed / Typed Name	Signature	Month	Day	Year
Mark H. Young	Mark H. Young	1	9	2019
Transporter 2 Printed / Typed Name	**Signature**	**Month**	**Day**	**Year**

DESIGNATED FACILITY SECTION

Discrepancy

Discrepancy Indication Space	☐ Quantity	☐ Type	☐ Residue	☐ Partial Rejection	☐ Full Rejection

Alternate Facility (or Generator)

Facility's Phone:

US EPA ID Number

Signature of Alternate Facility (or Generator)	Month	Day	Year

Designated Facility Owner or Operator: Certification of Receipt of materials covered by the manifest except as noted in Discrepancy section

Printed / Typed Name	Signature	Month	Day	Year

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eneca Meadows Landfill
786 Salcman Road
aterloo, NY 13165

INBOUND CASH

00706 ONTARIO SPECIALTY CONTRACTING
333 GANSON STREET
BUFFALO NY 14203

SITE	TICKET	GRID	WEIGHMASTER
01	00235603	WE	KRISTY

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
01/09/19	01/09/19	09:35	12:44	TJ-14	

REFERENCE	ORIGIN
19-002	TOMPKINS

icale 1 Gross Wt. 108140 LB
icale 3 Tare Wt. 38740 LB TRUCK EXPIRES / /
let Weight 69400 LB LIC# CONTAINER

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
34.70	TON	CONTAMINAT SOIL				
1.00		DEC-ENV FEE				

Operating Hours Mon-Fri 6:00am-4:00pm. Sat 6:00am-11:30am.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

MANIFEST: 003

HAULER: 9999 VARIOUS HAULERS
ROUTE: 0-NONE

NET AMOUNT
0.00
CHECK NO.
OF#

REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATURE

Non-Hazardous Waste Manifest

GENERATOR SECTION

Non-Hazardous Waste Manifest	Generator ID Number	Waste Profile Number	Waste Tracking (Manifest) Number
Contaminated Soil		19-002 (Soil)	002

Customer Billing Name and Mailing	Generator's Site Address
Ontario Specialty Contracting, Inc. 333 Ganson Street Buffalo, NY 14203 Customer Billing Phone: 716-856-3333	Emersub 15, LLC 620 South Aurora Street Ithaca, NY 14850 Generator's Phone: 412-375-0282

Transporter 1 Company Name	US EPA ID Number
TJ Allen Bulk Services, LLC	Part 364# 6A-338
Transporter 2 Company Name	**US EPA ID Number**
Longhorn Trucking Company, Inc.	Part 364# 4A-485
Designated Facility Name and Site Address	**US EPA ID Number**
Seneca Meadows Landfill 1786 Salcman Road Waterloo, NY Facility's Phone: 315-539-5624	

	Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt / Vol.	Disposal Method
1	Non Hazardous Soils	1	Dump Trailer	40 Tons		NH001
2						
3						
4						

Special Handling Instructions and Additional Information	24 Hour Emergency Response Phone
	Emergency Response Guide Number

GENERATOR'S / OFFEROR'S CERTIFICATION: I hereby certify that the above-described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Generator's Offeror's Printed / Typed Name	Signature	Month	Day	Year
Nate Winston ON BEHALF OF EMERSUB 15 LLC	Nate Winston ON BEHALF OF EMERSUB 15 LLC	01	09	2019

TRANSPORTER SECTION

Transporter's Acknowledgement of Receipt of Materials

Transporter 1 Printed / Typed Name	Signature	Month	Day	Year
Bob Olejarczyk	R.O.	1	9	19
Transporter 2 Printed / Typed Name	**Signature**	**Month**	**Day**	**Year**

DESIGNATED FACILITY SECTION

Discrepancy

Discrepancy Indication Space	☐ Quantity	☐ Type	☐ Residue	☐ Partial Rejection	☐ Full Rejection

Alternate Facility (or Generator)	US EPA ID Number
Facility's Phone:	

Signature of Alternate Facility (or Generator)	Month	Day	Year

Designated Facility Owner or Operator: Certification of Receipt of materials covered by the manifest except as noted in Discrepancy section

Printed / Typed Name	Signature	Month	Day	Year

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Seneca Meadows Landfill
1786 Salcman Road
Waterloo, NY 13165

INBOUND CASH

000706 ONTARIO SPECIALTY CONTRACTING
333 GANSON STREET
BUFFALO NY 14203

SITE	TICKET	GRID	WEIGHMASTER
01	00235604	WE	KRISTY

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
01/09/19	01/09/19	09:37	14:32	TJ-10	

REFERENCE	ORIGIN
19-002	TOMPKINS

Scale 1 Gross Wt. 112800 LB
Scale 3 Tare Wt. 38880 LB TRUCK EXPIRES / /
Net Weight 73920 LB LIC# CONTAINER

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
36.96	TON	CONTAMINAT SOIL				
1.00		DEC-ENV FEE				

Operating Hours Mon-Fri 6:00am-4:00pm. Sat 6:00am-11:30am.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

MANIFEST: 002

HAULER: 9999 VARIOUS HAULERS
ROUTE: 0-NONE

NET AMOUNT
TENDERED $
CHANGE
0.00
CHECK NO.
OE#

SIGNATURE

VWSTL TO REORDER CONTACT CAROLINA SOFTWARE

Non-Hazardous Waste Manifest

GENERATOR SECTION

Non-Hazardous Waste Manifest	Generator ID Number	Waste Profile Number	Waste Tracking (Manifest) Number
Contaminated Soil		19-002 (Soil)	003

Customer Billing Name and Mailing	Generator's Site Address
Ontario Specialty Contracting, Inc. 333 Ganson Street Buffalo, NY 14203 Customer Billing Phone: 716-856-3333	Emersub 15, LLC 620 South Aurora Street Ithaca, NY 14850 Generator's Phone: 412-375-0282

Transporter 1 Company Name	US EPA ID Number
TJ Allen Bulk Services, LLC	Part 364# 6A-338
Transporter 2 Company Name	**US EPA ID Number**
Longhorn Trucking Company, Inc.	Part 364# 4A-485
Designated Facility Name and Site Address	**US EPA ID Number**
Seneca Meadows Landfill 1786 Salcman Road Waterloo, NY Facility's Phone: 315-539-5624	

Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt / Vol.	Disposal Method
1 Non Hazardous Soils	1	Dump Trailer	40 Tons		NH001
2					
3					
4					

Special Handling Instructions and Additional Information	24 Hour Emergency Response Phone
	Emergency Response Guide Number

GENERATOR'S / OFFEROR'S CERTIFICATION: I hereby certify that the above-described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Generator's Offeror's Printed / Typed Name	Signature	Month	Day	Year
Nate Winston ON BEHALF OF EMERSUB 15 LLC	ON BEHALF OF EMERSUB15 LLC	01	08	2019

TRANSPORTER SECTION

Transporter's Acknowledgement of Receipt of Materials

Transporter 1 Printed / Typed Name	Signature	Month	Day	Year
Chris Blakeslee		1	9	2019
Transporter 2 Printed / Typed Name	**Signature**	**Month**	**Day**	**Year**

DESIGNATED FACILITY SECTION

Discrepancy

Discrepancy Indication Space	☐ Quantity	☐ Type	☐ Residue	☐ Partial Rejection	☐ Full Rejection

Alternate Facility (or Generator)	US EPA ID Number
Facility's Phone:	

Signature of Alternate Facility (or Generator)	Month	Day	Year

Designated Facility Owner or Operator: Certification of Receipt of materials covered by the manifest except as noted in Discrepancy section

Printed / Typed Name	Signature	Month	Day	Year

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Seneca Meadows Landfill
1786 Salcman Road
Waterloo, NY 13165

INBOUND CASH

000706 ONTARIO SPECIALTY CONTRACTING
333 GANSON STREET
BUFFALO NY 14203

SITE	TICKET	GRID	WEIGHMASTER
01	00235657	WE	KRISTY

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
01/09/19	01/09/19	10:43	14:58	TJ-16	

REFERENCE	ORIGIN
19-002	TOMPKINS

Manual Gross Wt. 126900 LB
Scale 3 Tare Wt. 37800 LB TRUCK EXPIRES / /
Net Weight 89100 LB LIC# CONTAINER

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
44.55	TON	CONTAMINAT SOIL				
1.00		DEC-ENV FEE				

Operating Hours Mon-Fri 6:00am-4:00pm. Sat 6:00am-11:30am.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

MANIFEST: 004

HAULER: 9999 VARIOUS HAULERS
ROUTE: 9-NONE

NET AMOUNT
TENDERED
CHANGE
0.00
CHECK NO.
OE#

SIGNATURE

WW6TI TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767

PRINT RECEIPT - OpenEdge View

Non-Hazardous Waste Manifest

GENERATOR SECTION

Non-Hazardous Waste Manifest	Generator ID Number	Waste Profile Number	Waste Tracking (Manifest) Number
Contaminated Soil		19-002 (Soil)	004

Customer Billing Name and Mailing
Ontario Specialty Contracting, Inc.
333 Ganson Street
Buffalo, NY 14203
Customer Billing Phone: 716-856-3333

Generator's Site Address
Emersub 15, LLC
620 South Aurora Street
Ithaca, NY 14850
Generator's Phone: 412-375-0282

Transporter 1 Company Name: TJ Allen Bulk Services, LLC — US EPA ID Number: Part 364# 6A-338

Transporter 2 Company Name: Longhorn Trucking Company, Inc. — US EPA ID Number: Part 364# 4A-485

Designated Facility Name and Site Address
Seneca Meadows Landfill
1786 Salcman Road
Waterloo, NY
Facility's Phone: 315-539-5624
US EPA ID Number:

	Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt / Vol.	Disposal Method
1	Non Hazardous Soils	1	Dump Trailer	40 Tons		NH001
2						
3						
4						

Special Handling Instructions and Additional Information

24 Hour Emergency Response Phone

Emergency Response Guide Number

GENERATOR'S / OFFEROR'S CERTIFICATION: I hereby certify that the above-described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Generator's Offeror's Printed / Typed Name	Signature	Month	Day	Year
Nate Winston ON BEHALF OF EMERSUB 15 LLC	ON BEHALF OF EMERSUB 15, LLC	01	09	2019

TRANSPORTER SECTION

Transporter's Acknowledgement of Receipt of Materials

Transporter 1 Printed / Typed Name: Jon Olebrzge	Signature	Month: 1	Day: 9	Year: 19
Transporter 2 Printed / Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY SECTION

Discrepancy

Discrepancy Indication Space	☐ Quantity	☐ Type	☐ Residue	☐ Partial Rejection	☐ Full Rejection

Alternate Facility (or Generator)
Facility's Phone:
US EPA ID Number

Signature of Alternate Facility (or Generator)	Month	Day	Year

Designated Facility Owner or Operator: Certification of Receipt of materials covered by the manifest except as noted in Discrepancy section

Printed / Typed Name	Signature	Month	Day	Year

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NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848389
Date: 5/21/2019
Time: 09:25:28 - 09:58:17

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/001

Gross: 119880 L In Scale 1
Tare: 39120 L Out Scale 2
Net: 80760 L

Tons: 40.38

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.38 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 001

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on Behalf of Emersub 15, LLC Signature [signature] Date 05/21/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879 TC

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5/21/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 5/21/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848395
Date: 5/21/2019
Time: 09:28:19 - 10:07:48

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 862
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/002

Gross: 116660 L In Scale 1
Tare: 39400 L Out Scale 2
Net: 77260 L

Tons: 38.63

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.63 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

842

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. [redacted] 002

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15 LLC Signature [signature] Date 05/21/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Company, Inc [redacted] Phone [redacted] 518-993-3480

Address [redacted] 6605 State Highway, Fort Plain, NY 13339

Driver Name Daniel Brownell License Plate No./State 70383PC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5/21/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 5/21/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848407
Date: 5/21/2019
Time: 09:39:32 - 10:28:20

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 095
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/003

Gross: 121580 L In Scale 1
Tare: 39180 L Out Scale 2
Net: 82400 L

Tons: 41.20

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.20 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 003

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 05/21/19

SECTION II: TRANSPORTER

Transporter Name [redacted] Langham Trucking Company, Inc. Phone [redacted] 518-993-3480

Address [redacted] 6605 State Highway, Fort Plain, NY 13339

Driver Name Mitch Langham License Plate No./State 68751PC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5-21-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 5/21/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848418
Date: 5/21/2019
Time: 10:19:28 - 10:47:29

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/004

Gross: 113500 L In Scale 1
Tare: 39580 L Out Scale 2
Net: 73920 L

Tons: 36.96

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 36.96 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

14

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 004

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 05/21/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5/21/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date 5/21/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Tioket: 848450
Date: 5/21/2019
Time: 11:32:13 - 12:07:10

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 858
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/005

Gross: 119100 L In Scale 1
Tare: 38980 L Out Scale 2
Net: 80120 L

Tons: 40.06

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.06 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 005

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 05/21/19

SECTION II: TRANSPORTER

Transporter Name [redacted] Lonhorn Trucking Company, Inc. Phone [redacted] 518-993-3480

Address [redacted] 6605 State Highway 5 Fort Plain, NY 13339

Driver Name Meowyn Wells License Plate No./State 67750 PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 05/21/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date 5/21/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848456
Date: 5/21/2019
Time: 12:06:01 - 12:28:14

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: LONG830
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-006-620 south aurora

Gross: 111860 L In Scale 1
Tare: 38960 L Out Scale 2
Net: 72900 L

Tons: 36.45

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 36.45 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

LONG-830

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 006

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments Trailer Plate No. BG88289

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 5/21/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Chet Dillenbeck License Plate No./State 37756PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5/21/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached.

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848482
Date: 5/21/2019
Time: 13:14:49 - 13:34:32

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/007

Gross: 120620 L In Scale 1
Tare: 38860 L Out Scale 2
Net: 81760 L

Tons: 40.88

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.88 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 007

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments Trailer Plate No. 147TCD

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15 LLC Signature Date 5/21/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Mark H. Young Date 5/21/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848501
Date: 5/21/2019
Time: 13:45:16 - 14:23:37

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 115980 L In Scale 1
Tare: 39320 L Out Scale 2
Net: 76660 L

Tons: 38.33

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.33 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 008

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments Trailer Plate No. T473LO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) NATE WINSTON ON BEHALF OF EMERSUB15, LLC Signature [signature] Date 5/21/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name JAMIE LEVANDOWSKI License Plate No./State 15874TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5/21/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date 5/21/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848605
Date: 5/22/2019
Time: 08:26:39 - 08:55:50

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 121200 L In Scale 1
Tare: 39240 L Out Scale 2
Net: 81960 L

Tons: 40.98

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.98 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

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casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 009

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments Trailer LP # 147766

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub VI, LLC Signature [signature] Date 05/22/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 26874TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 05/22/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent [illegible] Signature [signature] Date 5/22/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848662
Date: 5/22/2019
Time: 10:36:37 - 10:56:14

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: LONG-159
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 114320 L In Scale 1
Tare: 38880 L Out Scale 2
Net: 75440 L

Tons: 37.72

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.72 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 010

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments Trailer Plate No. BR 34438

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Don Cummings on behalf of Emersub 15, LLC Signature [signature] Date 05/22/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Jeff Scrolles License Plate No./State 72423PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5/22/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached.

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Lisa Cox Signature [signature] Date 5/22/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848673
Date: 5/22/2019
Time: 11:04:39 - 11:26:57

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: LONG-859
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 119660 L In Scale 1
Tare: 39280 L Out Scale 2
Net: 80380 L

Tons: 40.19

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.19 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 011

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments Trailer Plate No. BR 34447

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 05/22/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Tod H. Allan License Plate No./State 6B156PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5/22/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached.

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Lisa [signature] Signature [signature] Date 5/22/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848677
Date: 5/22/2019
Time: 11:20:09 - 11:36:46

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: LONG-862
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15, LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 122520 L In Scale 1
Tare: 39300 L Out Scale 2
Net: 83220 L

Tons: 41.61

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.61 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 012

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments Trailer Plate No. BR 34265

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 05/22/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Daniel Brown II License Plate No./State 70383PC /NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5/22/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached.

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent [signature] Signature [signature] Date 5/22/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848701
Date: 5/22/2019
Time: 11:54:54 - 12:25:23

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: LONG-095
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-013

Gross: 118800 L In Scale 1
Tare: 39240 L Out Scale 2
Net: 79560 L

Tons: 39.78

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.78 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 013

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments Trailer Plate No. BP47976

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 05/22/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Mitch Lamphere License Plate No./State 68751PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 05/22/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached.

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent [signature] Signature [signature] Date 5/22/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848707
Date: 5/22/2019
Time: 12:21:33 - 12:47:07

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-014

Gross: 117960 L In Scale 1
Tare: 38960 L Out Scale 2
Net: 79000 L

Tons: 39.50

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.50 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 014

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments Trailer License Plate No. 147700

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15 LLC Signature [signature] Date 05/22/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5/22/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent [signature] Signature [signature] Date 5/22/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848736
Date: 5/22/2019
Time: 13:17:59 - 14:07:16

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: LONG-667
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-015

Gross: 107540 L In Scale 1
Tare: 36040 L Out Scale 2
Net: 71500 L

Tons: 35.75

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 35.75 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 015

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments Trailer Plate No. BG43868

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 05/22/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Gunter E Kadya License Plate No./State 54841PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5/22/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached.

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Lisa Cox Signature [signature] Date 5/22/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848747
Date: 5/22/2019
Time: 13:57:15 - 14:33:08

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: LONG671
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/016

Gross: 106720 L In Scale 1
Tare: 36520 L Out Scale 2
Net: 70200 L

Tons: 35.10

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 35.10 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

671

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 016

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				

Comments Trailer Plate No. BE22387

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15 LLC Signature [signature] Date 05/22/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Bob Marshall License Plate No./State 38685PC

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5-22-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached.

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Lisa Lee Signature [signature] Date 5/22/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848869
Date: 5/23/2019
Time: 09:18:33 - 09:33:15

Customer: LE-01131/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21434/Emersub 15, LLC
Generator: EM/Emersub 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21434-017

Gross: 115680 L In Scale 1
Tare: 38980 L Out Scale 2
Net: 76700 L

Tons: 38.35

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.35 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 017

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21434	Non-Haz Contained-In Soil Concrete from AOC-1	32	Tons	Trailer	

Comments Trailer Plate No. 1477CO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 5/23/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5/23/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent [signature] Signature [signature] Date 5/23/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 848967
Date: 5/23/2019
Time: 13:09:16 - 13:58:56

Customer: LE-01131/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21434/Emersub 15, LLC
Generator: EM/Emersub 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21434-018-

Gross: 121860 L In Scale 1
Tare: 38780 L Out Scale 2
Net: 83080 L

Tons: 41.54

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.54 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 018

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21434	Non-Haz Contained-In Soil Concrete from AOC-1	32	Tons	Trailer	

Comments Trailer Plate No. 1477C0

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 05/23/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 2087972/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Mark H. [signature] Date 05/23/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Lisa Lu Signature [signature] Date 5/23/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 849092
Date: 5/24/2019
Time: 09:09:13 - 09:31:26

Customer: LE-01131/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-14
Truck Type: DR/DUMP TRAILER
Profile: 21434/Emersub 15, LLC
Generator: EM/Emersub 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21434-019

Gross: 114240 L In Scale 1
Tare: 39600 L Out Scale 2
Net: 74640 L

Tons: 37.32

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.32 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 019

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21434	Non-Haz Contained-In Soil Concrete from AOC-1	32	Tons	Trailer	

Comments Trailer Plate No. T47340

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 05/24/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 05/24/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent [signature] Signature [signature] Date 5/24/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 849183
Date: 5/24/2019
Time: 12:58:00 - 13:24:13

Customer: LE-01131/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-14
Truck Type: DR/DUMP TRAILER
Profile: 21434/Emersub 15, LLC
Generator: EM/Emersub 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21434-020

Gross: 116600 L In Scale 1
Tare: 39360 L Out Scale 2
Net: 77240 L

Tons: 38.62

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.62 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 020

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21434	Non-Haz Contained-In Soil Concrete from AOC-1	32	Tons	Trailer	

Comments Trailer Plate No. T47360

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) NATE WINSTON ON BEHALF OF EMERSUB 15, LLC Signature [signature] Date 5/24/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 5/24/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Lisa Gan Signature [signature] Date 5/24/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850548
Date: 6/4/2019
Time: 08:36:46 - 08:57:59

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/021

Gross: 115640 L In Scale 1
Tare: 39200 L Out Scale 2
Net: 76440 L

Tons: 38.22

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.22 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 021

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil AOC 29, AOC 35C, AOC 35H				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/04/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark Young License Plate No./State 20879 TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 06/04/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/4/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850572
Date: 6/4/2019
Time: 09:07:19 - 09:54:03

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14-14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 111760 L In Scale 1
Tare: 39740 L Out Scale 2
Net: 72020 L

Tons: 36.01

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 36.01 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 022

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil AOC 29, AOC 35C, AOC 35H				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/04/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/4/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/4/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850580
Date: 6/4/2019
Time: 09:19:15 - 10:19:39

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16-16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 114680 L In Scale 1
Tare: 38740 L Out Scale 2
Net: 75940 L

Tons: 37.97

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.97 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

16

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 023

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil AOC 29, AOC 35C, AOC 35H				

Comments Trailer LP # 304000

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub15, LLC Signature [signature] Date 06/04/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jon Olechrzyk License Plate No./State 19714TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/4/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/4/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850598
Date: 6/4/2019
Time: 11:08:33 - 11:32:19

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 830
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21436

Gross: 113320 L In Scale 1
Tare: 38980 L Out Scale 2
Net: 74340 L

Tons: 37.17

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.17 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 024

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. BG88289

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/04/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Chet Dillenbeck License Plate No./State 37756 PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6-4-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/4/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850606
Date: 6/4/2019
Time: 11:37:23 - 11:52:57

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 667
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 112500 L In Scale 1
Tare: 39040 L Out Scale 2
Net: 73460 L

Tons: 36.73

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 36.73 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 025

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. BG43868

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/04/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Gunter Kaiser License Plate No./State 54841PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 06/04/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850622
Date: 6/4/2019
Time: 12:12:25 - 12:37:59

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-026

Gross: 125060 L In Scale 1
Tare: 38960 L Out Scale 2
Net: 86100 L

Tons: 43.05

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 43.05 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

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casella

TJ-18

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 026

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and ~~proper~~ condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/04/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 06/04/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850637
Date: 6/4/2019
Time: 13:00:32 - 13:23:16

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 116300 L In Scale 1
Tare: 39620 L Out Scale 2
Net: 76680 L

Tons: 38.34

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.34 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 027

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. T473LO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature Date 06/04/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 6/4/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

******

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850639
Date: 6/4/2019
Time: 13:18:40 - 13:39:06

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 114880 L In Scale 1
Tare: 38580 L Out Scale 2
Net: 76300 L

Tons: 38.15

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.15 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

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casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 028

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 304000

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/04/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jon Olebarczyk License Plate No./State 19714TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/4/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/4/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850747
Date: 6/5/2019
Time: 08:22:47 - 08:43:19

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 121880 L In Scale 1
Tare: 39260 L Out Scale 2
Net: 82620 L

Tons: 41.31

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.31 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

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casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 029

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/05/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 06/05/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850755
Date: 6/5/2019
Time: 08:38:52 - 09:01:07

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 125780 L In Scale 1
Tare: 39780 L Out Scale 2
Net: 86000 L

Tons: 43.00

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 43.00 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 030

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. T473LO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/ /19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/5/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850763
Date: 6/5/2019
Time: 08:57:00 - 09:22:22

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 119380 L In Scale 1
Tare: 38940 L Out Scale 2
Net: 80440 L

Tons: 40.22

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.22 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. [redacted] 031

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 304060

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cumming on behalf of Emersub 15, LLC Signature [signature] Date 06/05/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jon Olszewski License Plate No./State 19714TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/5/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/5/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850780
Date: 6/5/2019
Time: 09:43:32 - 10:02:34

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 159
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 117020 L In Scale 1
Tare: 39020 L Out Scale 2
Net: 78000 L

Tons: 39.00

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.00 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 032

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. BR34438

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub15, LLC Signature [signature] Date 06/05/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Scott Searles License Plate No./State 72423PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/5/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/5/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850796
Date: 6/5/2019
Time: 10:30:48 - 10:48:51

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 862
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 120060 L In Scale 1
Tare: 39280 L Out Scale 2
Net: 80780 L

Tons: 40.39

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.39 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 033

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. BR34265

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/05/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Daniel Brownell License Plate No./State 70383PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6-5-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/5/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850811
Date: 6/5/2019
Time: 11:33:00 - 11:52:07

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 121880 L In Scale 1
Tare: 39000 L Out Scale 2
Net: 82880 L

Tons: 41.44

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.44 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 034

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 1477CO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/05/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/5/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850813
Date: 6/5/2019
Time: 11:52:54 - 12:11:26

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: LONG860
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-035

Gross: 123380 L In Scale 1
Tare: 39500 L Out Scale 2
Net: 83880 L

Tons: 41.94

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.94 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

LOW6-860

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 035

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. BP47977

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 6/5/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name James Hoke License Plate No./State 69068PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6-5-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850820
Date: 6/5/2019
Time: 11:59:32 - 12:33:55

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-036

Gross: 112180 L In Scale 1
Tare: 39540 L Out Scale 2
Net: 72640 L

Tons: 36.32

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 36.32 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

TJ-14

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 036

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. T47360

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/05/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Levandowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/5/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850822
Date: 6/5/2019
Time: 12:16:40 - 12:39:53

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: LONG858
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-037

Gross: 115840 L In Scale 1
Tare: 38960 L Out Scale 2
Net: 76880 L

Tons: 38.44

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.44 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

LON6 - 858

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 037

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. [redacted]BR 34448

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/05/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Merwyn Wells License Plate No./State 67750 PC NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6-5-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850832
Date: 6/5/2019
Time: 12:27:24 - 12:59:07

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-038

Gross: 123380 L In Scale 1
Tare: 38640 L Out Scale 2
Net: 84740 L

Tons: 42.37

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.37 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 038

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 304000

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/05/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jon Olejarczyk License Plate No./State 19714TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/5/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850893
Date: 6/5/2019
Time: 15:04:06 - 15:35:51

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 128400 L In Scale 1
Tare: 38900 L Out Scale 2
Net: 89500 L

Tons: 44.75

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 44.75 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 039

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/05/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. [signature] License Plate No./State 20879TC /NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Mark H. [signature] Date 6/5/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850902
Date: 6/5/2019
Time: 15:30:08 - 16:03:13

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 120600 L In Scale 1
Tare: 39480 L Out Scale 2
Net: 81120 L

Tons: 40.56

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.56 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 040

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. T47310

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/05/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/5/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/5/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850903
Date: 6/5/2019
Time: 15:50:18 - 16:10:32

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 121340 L In Scale 1
Tare: 38560 L Out Scale 2
Net: 82780 L

Tons: 41.39

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.39 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 041

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 304000

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature Date 06/05/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jon Olejarczyk License Plate No./State 19714TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 06/05/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 850947
Date: 6/6/2019
Time: 08:00:58 - 08:23:18

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 123240 L In Scale 1
Tare: 39500 L Out Scale 2
Net: 83740 L

Tons: 41.87

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.87 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 042

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub15, LLC Signature [signature] Date 06/06/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/6/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

****

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851006
Date: 6/6/2019
Time: 10:42:20 - 11:01:26

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 124140 L In Scale 1
Tare: 38980 L Out Scale 2
Net: 85160 L

Tons: 42.58

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.58 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 043

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. BR34447

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub15, LLC Signature [signature] Date 06/06/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name [signature] License Plate No./State 6B15GPC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Tod H. Allan Date 6/6/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851007
Date: 6/6/2019
Time: 10:34:57 - 11:03:39

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 859
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/044

Gross: 119040 L In Scale 1
Tare: 39400 L Out Scale 2
Net: 79640 L

Tons: 39.82

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.82 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 044

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 3040CO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/06/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jon Olebarczyk License Plate No./State 19714TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/6/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851020
Date: 6/6/2019
Time: 11:15:24 - 11:38:00

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 830
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/045

Gross: 116240 L In Scale 1
Tare: 39140 L Out Scale 2
Net: 77100 L

Tons: 38.55

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.55 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 045

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. BG88289

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cumming on behalf of Emersub 15, LLC Signature [signature] Date 06/06/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Chet Dillenbeck License Plate No./State 3775GPL/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/6/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date 6/6/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851027
Date: 6/6/2019
Time: 11:33:10 - 11:55:16

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/046

Gross: 122320 L In Scale 1
Tare: 39280 L Out Scale 2
Net: 83040 L

Tons: 41.52

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.52 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 046

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 1477CC

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 6/6/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/6/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851028
Date: 6/6/2019
Time: 11:45:32 - 12:00:22

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 667
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/047

Gross: 106800 L In Scale 1
Tare: 39120 L Out Scale 2
Net: 67680 L

Tons: 33.84

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 33.84 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 047

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. ~~[illegible]~~ B643868 PC

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/06/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name [signature] Gunton E Kadun License Plate No./State 54841 PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 06/06/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851062
Date: 6/6/2019
Time: 12:11:07 - 13:23:29

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-048

Gross: 106180 L In Scale 1
Tare: 39780 L Out Scale 2
Net: 66400 L

Tons: 33.20

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 33.20 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

TJ-14

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 048

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. T473LO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub15, LLC Signature [signature] Date 06/06/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 15874TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/6/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851098
Date: 6/6/2019
Time: 14:10:54 - 14:50:26

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/049

Gross: 119500 L In Scale 1
Tare: 38740 L Out Scale 2
Net: 80760 L

Tons: 40.38

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.38 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 049

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 304060

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature Date 06/06/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jon Olebrzyk License Plate No./State 19714TZ/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 6/6/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/6/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851110
Date: 6/6/2019
Time: 14:51:31 - 15:25:14

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/050

Gross: 122140 L In Scale 1
Tare: 38900 L Out Scale 2
Net: 83240 L

Tons: 41.62

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.62 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 050

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/06/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/6/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/6/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851161
Date: 6/7/2019
Time: 07:50:12 - 08:15:32

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/051

Gross: 123760 L In Scale 1
Tare: 39360 L Out Scale 2
Net: 84400 L

Tons: 42.20

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.20 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 051

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/07/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/7/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851232
Date: 6/7/2019
Time: 11:09:13 - 11:27:36

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 120060 L In Scale 1
Tare: 39100 L Out Scale 2
Net: 80960 L

Tons: 40.48

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.48 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 052

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 6/7/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/7/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/7/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851281
Date: 6/7/2019
Time: 14:00:25 - 14:34:40

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/53

Gross: 114380 L In Scale 1
Tare: 39440 L Out Scale 2
Net: 74940 L

Tons: 37.47

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.47 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 53

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature Date 5/7/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 13874 TC

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 6/7/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851288
Date: 6/7/2019
Time: 14:25:55 - 15:02:28

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/054

Gross: 128460 L In Scale 1
Tare: 38880 L Out Scale 2
Net: 89580 L

Tons: 44.79

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 44.79 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 054

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature [signature] Date 6/7/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/7/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/7/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851598
Date: 6/11/2019
Time: 08:14:09 - 09:04:24

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/055

Gross: 114940 L In Scale 1
Tare: 39320 L Out Scale 2
Net: 75620 L

Tons: 37.81

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.81 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 055

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 147160

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 6/11/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Mark H. Young Date 6/11/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/11/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851612
Date: 6/11/2019
Time: 08:16:22 - 09:25:33

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/056

Gross: 116840 L In Scale 1
Tare: 39000 L Out Scale 2
Net: 77840 L

Tons: 38.92

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.92 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 056

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 304000

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature Date 06/11/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jon Oleszczyk License Plate No./State 19714TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 6/11/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851713
Date: 6/11/2019
Time: 12:19:30 - 12:39:21

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/057

Gross: 117920 L In Scale 1
Tare: 38620 L Out Scale 2
Net: 79300 L

Tons: 39.65

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.65 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES.

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 057

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 304000

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/11/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jon Dobrczyk License Plate No./State 19714TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/11/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent [signature] Signature Date 6/11/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851726
Date: 6/11/2019
Time: 12:37:16 - 13:18:48

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/058

Gross: 123720 L In Scale 1
Tare: 38920 L Out Scale 2
Net: 84800 L

Tons: 42.40

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.40 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 058

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 147260

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Ron Cummings on behalf of Emersub15, LLC Signature Date 06/11/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 6/11/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge the foregoing information is true and accurate.

Authorized Agent Signature Date 6/11/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851797
Date: 6/11/2019
Time: 15:23:48 - 15:48:17

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16
Truck Type: DT/DUMP TRUCK
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 120480 L In Scale 1
Tare: 38500 L Out Scale 2
Net: 81980 L

Tons: 40.99

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.99 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 059

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 30400

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature Date 06/11/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jon Oldberger License Plate No./State 19714TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 6/11/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851844
Date: 6/12/2019
Time: 07:44:54 - 08:06:30

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/060

Gross: 120360 L In Scale 1
Tare: 39260 L Out Scale 2
Net: 81100 L

Tons: 40.55

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.55 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 060

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/12/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/12/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date 6/12/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851848
Date: 6/12/2019
Time: 07:48:40 - 08:14:38

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16
Truck Type: DT/DUMP TRUCK
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 109300 L In Scale 1
Tare: 38900 L Out Scale 2
Net: 70400 L

Tons: 35.20

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 35.20 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 061

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 304000

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/12/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 1971HTC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/12/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/12/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851899
Date: 6/12/2019
Time: 10:01:34 - 10:24:27

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 862
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/062

Gross: 119040 L In Scale 1
Tare: 39320 L Out Scale 2
Net: 79720 L

Tons: 39.86

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.86 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 062

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. BR342605

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature Date 06/12/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Daniel Brown II License Plate No./State 70383 PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 6-12-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/12/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851906
Date: 6/12/2019
Time: 10:14:56 - 10:35:33

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 858
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/063

Gross: 115060 L In Scale 1
Tare: 39140 L Out Scale 2
Net: 75920 L

Tons: 37.96

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.96 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES.

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 063

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. BR34448

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub15, LLC Signature [signature] Date 06/12/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Merwyn Wells License Plate No./State 67750PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6-12-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent [signature] Signature [signature] Date 6/12/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Tioket: 851914
Date: 6/12/2019
Time: 10:45:14 - 11:06:08

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435 /C64

Gross: 118680 L In Scale 1
Tare: 39060 L Out Scale 2
Net: 79620 L

Tons: 39.81

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.81 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 064

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 147CO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of ~~Emersub 15, LLC~~ Signature [signature] Date 06/12/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/12/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent [signature] Signature Date 6/12/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851918
Date: 6/12/2019
Time: 10:56:37 - 11:13:41

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 095
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/065

Gross: 113520 L In Scale 1
Tare: 39300 L Out Scale 2
Net: 74220 L

Tons: 37.11

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.11 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 065

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. BP47976

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/12/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Mitch Lamphere License Plate No./State 68751PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6-12-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent [signature] Signature [signature] Date 6/12/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851932
Date: 6/12/2019
Time: 11:23:37 - 11:43:32

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/066

Gross: 116840 L In Scale 1
Tare: 38480 L Out Scale 2
Net: 78360 L

Tons: 39.18

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.18 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 066

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 304000

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature Date 06/12/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Levandrowski License Plate No./State 19714TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 6/12/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/12/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851988
Date: 6/12/2019
Time: 14:03:20 - 14:18:20

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DT/DUMP TRUCK
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 123060 L In Scale 1
Tare: 38360 L Out Scale 2
Net: 84700 L

Tons: 42.35

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.35 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 067

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/12/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/12/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent [signature] Signature [signature] Date 6/12/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 851995
Date: 6/12/2019
Time: 14:38:02 - 14:55:25

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 125720 L In Scale 1
Tare: 38460 L Out Scale 2
Net: 87260 L

Tons: 43.63

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 43.63 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 0068

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments Trailer Plate No 304000

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/12/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 19714TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/12/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent [signature] Signature [signature] Date 6/12/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

******** Reprinted Ticket - Edited *****

Ticket: 852276
Date: 6/14/2019
Time: 08:59:05 - 09:40:24

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14
Truck Type: DT/DUMP TRUCK
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/069

Gross: 122980 L In Scale 1
Tare: 40240 L Out Scale 2
Net: 82740 L

Tons: 41.37

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.37 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

069

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. _____

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments _____

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF EMERSUB15, LLC NATE WINSTON Signature [signature] Date 6/14/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name JAmie Lewandrowski License Plate No./State 15874 TC

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/14/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature [signature] Date 6/14/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 852945
Date: 6/19/2019
Time: 08:40:55 - 09:29:03

Customer: LE-01156/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ14
Truck Type: DT/DUMP TRUCK
Profile: 21437/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21437

Gross: 112940 L In Scale 1
Tare: 39880 L Out Scale 2
Net: 73060 L

Tons: 36.53

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 36.53 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 070

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21437	Non-Hazardous Contaminatd Soil from AOC 31, AOC 35D & AOC 35K	32	Tons	Trailer	

Comments Trailer Plate No. T47360

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/19/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/19/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/19/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853032
Date: 6/19/2019
Time: 11:59:13 - 12:58:44

Customer: LE-01156/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21437/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21437

Gross: 119060 L In Scale 1
Tare: 39060 L Out Scale 2
Net: 80000 L

Tons: 40.00

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 40.00 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 071

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21437	Non-Hazardous Contaminatd Soil from AOC 31, AOC 35D & AOC 35K	32	Tons	Trailer	

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature Date 06/19/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark Young License Plate No./State 20879TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 6/19/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 6/19/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853059
Date: 6/19/2019
Time: 12:49:09 - 13:59:27

Customer: LE-01156/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ-14
Truck Type: DR/DUMP TRAILER
Profile: 21437/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21437-072

Gross: 111500 L In Scale 1
Tare: 39520 L Out Scale 2
Net: 71980 L

Tons: 35.99

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 35.99 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-14

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 072

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21437	Non-Hazardous Contaminatd Soil from AOC 31, AOC 35D & AOC 35K	32	Tons	Trailer	

Comments Trailer Plate No. T473LO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cumming on behalf of Emersub 15, LLC Signature [signature] Date 06/19/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/19/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853117
Date: 6/19/2019
Time: 15:58:07 - 16:15:59

Customer: LE-01156/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21437/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21437

Gross: 124780 L In Scale 1
Tare: 38900 L Out Scale 2
Net: 85880 L

Tons: 42.94

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 42.94 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 073

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21437	Non-Hazardous Contaminatd Soil from AOC 31, AOC 35D & AOC 35K	32	Tons	Trailer	

Comments Trailer Plate No. 147700

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/19/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/19/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853160
Date: 6/20/2019
Time: 08:25:37 - 09:02:25

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/074

Gross: 120140 L In Scale 1
Tare: 39920 L Out Scale 2
Net: 80220 L

Tons: 40.11

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.11 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 074

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. T473LO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/20/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandrowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/20/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date 6/20/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853175
Date: 6/20/2019
Time: 08:44:12 - 09:37:04

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/075

Gross: 130460 L In Scale 1
Tare: 39400 L Out Scale 2
Net: 91060 L

Tons: 45.53

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 45.53 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 075

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. 147700

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/20/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Mark H. [signature] Date 6/20/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853177
Date: 6/20/2019
Time: 08:49:51 - 09:44:26

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/076

Gross: 119680 L In Scale 1
Tare: 38980 L Out Scale 2
Net: 80700 L

Tons: 40.35

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.35 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 076

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. 304060

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf Emersub 15, LLC Signature [signature] Date 6/20/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jon Olejarczyk License Plate No./State 19714TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/20/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853259
Date: 6/20/2019
Time: 12:03:32 - 13:35:49

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/077

Gross: 115720 L In Scale 1
Tare: 39760 L Out Scale 2
Net: 75960 L

Tons: 37.98

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.98 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-14

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 077

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. T47340

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) David Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/20/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 158-4TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/20/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853262
Date: 6/20/2019
Time: 12:17:58 - 13:41:02

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-078

Gross: 123720 L In Scale 1
Tare: 39120 L Out Scale 2
Net: 84600 L

Tons: 42.30

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.30 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-18

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 078

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. 1477CO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/20/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/20/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853264
Date: 6/20/2019
Time: 12:31:18 - 13:46:09

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-079

Gross: 123480 L In Scale 1
Tare: 38720 L Out Scale 2
Net: 84760 L

Tons: 42.38

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.38 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES.

****

casella

TJ-16

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 079

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. 304060

I certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined in 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (Printed) Daniel Cummings on behalf of Emersub 15 LLC Signature [signature] Date 6/20/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Joe Olebarczyk License Plate No./State 1971HTL/NY

I certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/20/19

SECTION III: DISPOSAL FACILITY

Name: Ontario County Landfill
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853847
Date: 6/25/2019
Time: 07:42:48 - 08:23:24

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435,080

Gross: 128820 L In Scale 1
Tare: 39980 L Out Scale 2
Net: 88840 L

Tons: 44.42

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 44.42 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 080

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. T473LO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/25/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/25/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853863
Date: 6/25/2019
Time: 08:00:17 - 09:07:25

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/081

Gross: 126480 L In Scale 1
Tare: 39500 L Out Scale 2
Net: 86980 L

Tons: 43.49

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 43.49 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

18

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 081

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. ~~20879~~ 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/25/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/25/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

******** Reprinted Ticket - Edited *****

Ticket: 853913
Date: 6/25/2019
Time: 10:01:13 - 11:04:17

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 862
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/082

Gross: 113600 L In Scale 1
Tare: 39440 L Out Scale 2
Net: 74160 L

Tons: 37.08

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.08 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

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casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 082

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non - Haz Soil from AOC 28 upper and AOC 28 Lower				

Comments Trailer Plate No. BR34265

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/25/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name [signature] License Plate No./State 70383 PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/25/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853939
Date: 6/25/2019
Time: 11:25:51 - 12:00:09

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: 095
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/083

Gross: 114520 L In Scale 1
Tare: 39400 L Out Scale 2
Net: 75120 L

Tons: 37.56

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.56 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 083

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non - Haz Soil from AOC 28 upper and AOC 28 Lower				

Comments Trailer Plate No. BP47976

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/25/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Mitch Lanphere License Plate No./State 68751PC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6-25-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853950
Date: 6/25/2019
Time: 11:41:38 - 12:26:48

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/084

Gross: 110100 L In Scale 1
Tare: 39700 L Out Scale 2
Net: 70400 L

Tons: 35.20

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 35.20 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 084

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. T473LO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/25/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/25/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 853959
Date: 6/25/2019
Time: 11:51:15 - 12:54:18

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-085

Gross: 121640 L In Scale 1
Tare: 39160 L Out Scale 2
Net: 82480 L

Tons: 41.24

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.24 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-18

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 085

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/25/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/25/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 854039
Date: 6/25/2019
Time: 15:32:13 - 15:56:03

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 118080 L In Scale 1
Tare: 39400 L Out Scale 2
Net: 78680 L

Tons: 39.34

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.34 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 086

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. ~~T47360~~ ~~T47160~~ T47360

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 6/25/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 15874 TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/25/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 854043
Date: 6/25/2019
Time: 15:46:43 - 16:06:06

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 124120 L In Scale
Tare: 38760 L Out Scale
Net: 85360 L

Tons: 42.68

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.68 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 087

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No ~~T49360~~ 147760 PCC

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 6/25/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark Young License Plate No./State 20879TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 6/25/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 855822
Date: 7/9/2019
Time: 08:36:22 - 09:22:22

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/088

Gross: 105140 L In Manual Wt M
Tare: 39060 L Out Scale 2
Net: 66080 L

Tons: 33.04

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 33.04 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

105, #0140

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 088

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. BT65107

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/9/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 208 TTC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-09-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 7/15

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 855910
Date: 7/9/2019
Time: 12:30:19 - 13:36:07

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/089

Gross: 100120 L In Scale 1
Tare: 38760 L Out Scale 2
Net: 61360 L

Tons: 30.68

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 30.68 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 089

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. BT651 07

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub15, LLC Signature [signature] Date 7/9/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-09-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date 7/9

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 855981
Date: 7/10/2019
Time: 07:04:17 - 07:32:32

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 117440 L In Scale 1
Tare: 39420 L Out Scale 2
Net: 78020 L

Tons: 39.01

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.01 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 090

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. BT65107

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub15 LLC Signature Date 07/09/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 07-09-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 856084
Date: 7/10/2019
Time: 10:39:01 - 11:23:37

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/091

Gross: 106700 L In Scale 1
Tare: 39200 L Out Scale 2
Net: 67500 L

Tons: 33.75

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 33.75 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 091

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. BT65167

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 06/10/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 2087772/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-10-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 856162
Date: 7/10/2019
Time: 14:36:19 - 15:24:56

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-092

Gross: 84140 L In Scale 1
Tare: 39060 L Out Scale 1
Net: 45080 L

Tons: 22.54

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 22.54 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

TJ-06

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 092

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower				

Comments Trailer Plate No. BT 65107

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/10/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-10-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 856237
Date: 7/11/2019
Time: 09:04:02 - 09:25:33

Customer: LE-01131/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21434/Emersub 15, LLC
Generator: EM/Emersub 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21434/093

Gross: 105620 L In Scale 1
Tare: 39100 L Out Scale 2
Net: 66520 L

Tons: 33.26

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 33.26 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 093

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21434	Non-Haz Contained-In Soil Concrete from AOC-1	32	Tons	Trailer	

Comments Trailer Plate No. BT65107

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/11/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-11-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 7/16

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 856314
Date: 7/11/2019
Time: 12:50:26 - 13:27:12

Customer: LE-01131/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21434/Emersub 15, LLC
Generator: EM/Emersub 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21438/094

Gross: 110300 L In Scale 1
Tare: 38860 L Out Scale 2
Net: 71440 L

Tons: 35.72

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 35.72 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 094

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21434	Non-Haz Contained-In Soil Concrete from AOC-1	32	Tons	Trailer	

Comments Trailer Plate No. BT65107

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/11/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-11-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date 7/11/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 856855
Date: 7/16/2019
Time: 07:55:11 - 08:35:43

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-095

Gross: 132820 L In Scale 1
Tare: 37320 L Out Scale 2
Net: 95500 L

Tons: 47.75

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 47.75 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-06

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 095

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non-Haz Soil from AOC 34				

Comments Trailer Plate No. 297562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/16/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 208777TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-16-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 856859
Date: 7/16/2019
Time: 08:08:26 - 08:46:16

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-096

Gross: 130160 L In Scale 1
Tare: 39040 L Out Scale 2
Net: 91120 L

Tons: 45.56

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 45.56 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

TJ-18

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 096

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non-Haz Soil from AOC 34				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/16/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/16/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 856930
Date: 7/16/2019
Time: 11:04:51 - 11:39:31

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: LONG860
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/097

Gross: 107960 L In Scale 1
Tare: 39340 L Out Scale 1
Net: 68620 L

Tons: 34.31

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 34.31 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

LONG-860

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 097

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non - Haz Soil from AOC 28 upper and AOC 28 Lower, AOC 34 -35L				

Comments Trailer Plate No. BP47477

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/16/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Jim Hoke License Plate No./State 69068PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7-16-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Tioket: 856934
Date: 7/16/2019
Time: 11:29:27 - 12:01:03

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: LH/LONGHORN
Truck: LONG095
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-98

Gross: 120200 L In Scale 1
Tare: 39280 L Out Scale 2
Net: 80920 L

Tons: 40.46

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.46 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

LONG-0°

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 098

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non - Haz Soil from AOC 28 upper and AOC 28 Lower, AOC 34 -35L				

Comments Trailer Plate No. BP47976

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cumming on behalf of Emersub15, LLC Signature [signature] Date 7/16/19

SECTION II: TRANSPORTER

Transporter Name Longhorn Trucking Co., Inc. Phone 518-993-3480

Address 6605 NY-5 Fort Plain ,NY 13339

Driver Name Mitch Lanphere License Plate No./State 68751 PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7-16-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 856946
Date: 7/16/2019
Time: 11:56:14 - 12:19:01

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-099

Gross: 126020 L In Scale 2
Tare: 37240 L Out Scale 2
Net: 88780 L

Tons: 44.39

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 44.39 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 099

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 297562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/16/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 208777C/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-16-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 856953
Date: 7/16/2019
Time: 12:15:15 - 12:42:03

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-100

Gross: 131320 L In Scale 1
Tare: 38940 L Out Scale 2
Net: 92380 L

Tons: 46.19

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 46.19 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-18

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 100

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature [signature] Date 7/16/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/16/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 857029
Date: 7/16/2019
Time: 15:32:24 - 16:07:21

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-101

Gross: 120340 L In Scale 1
Tare: 37040 L Out Scale 2
Net: 83300 L

Tons: 41.65

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.65 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

TJ-06

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 101

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 297572

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/16/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-16-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 857030
Date: 7/16/2019
Time: 15:51:29 - 16:13:32

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-102

Gross: 132620 L In Scale 1
Tare: 38760 L Out Scale 2
Net: 93860 L

Tons: 46.93

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 46.93 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-18

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 102

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/16/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TR NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/16/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 857073
Date: 7/17/2019
Time: 08:00:48 - 09:05:05

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-103

Gross: 121800 L In Scale 1
Tare: 37520 L Out Scale 2
Net: 84280 L

Tons: 42.14

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.14 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

TJ-06

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 103

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 297502

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/17/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 208772C/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-17-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Tioket: 857094
Date: 7/17/2019
Time: 08:22:41 - 09:41:20

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-104

Gross: 124340 L In Scale 1
Tare: 39320 L Out Scale 2
Net: 85020 L

Tons: 42.51

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.51 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

TJ-18

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 104

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/17/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/17/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 857182
Date: 7/17/2019
Time: 12:13:32 - 13:26:41

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-105

Gross: 114380 L In Scale 1
Tare: 37460 L Out Scale 2
Net: 76920 L

Tons: 38.46

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.46 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

TJ-06

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 105

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 297522

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Paul Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/17/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 208TTC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-17-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 857193
Date: 7/17/2019
Time: 12:50:36 - 14:02:40

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-106

Gross: 127000 L In Scale 1
Tare: 39120 L Out Scale 2
Net: 87880 L

Tons: 43.94

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 43.94 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

TJ-18

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 106

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/17/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/17/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 857509
Date: 7/19/2019
Time: 07:55:57 - 08:19:04

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-107

Gross: 126260 L In Scale 1
Tare: 39260 L Out Scale 2
Net: 87000 L

Tons: 43.50

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 43.50 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-18

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 107

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No.

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/19/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/19/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 857517
Date: 7/19/2019
Time: 08:10:41 - 08:32:10

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-10
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-108

Gross: 120900 L In Scale 1
Tare: 39360 L Out Scale 2
Net: 81540 L

Tons: 40.77

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.77 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

TJ-10

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 108

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No 147660

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged ~~and proper~~ condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/14/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 1J873C/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-19-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 857590
Date: 7/19/2019
Time: 11:33:17 - 11:56:56

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-109

Gross: 124000 L In Scale 1
Tare: 39040 L Out Scale 2
Net: 84960 L

Tons: 42.48

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.48 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-18

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 109

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF EMERSUB15, LLC NATE WINSTON Signature [signature] Date 7/19/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State [redacted] 147760

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/19/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 857597
Date: 7/19/2019
Time: 11:47:00 - 12:23:33

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-10
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-110

Gross: 113200 L In Scale 1
Tare: 39140 L Out Scale 2
Net: 74060 L

Tons: 37.03

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.03 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

TJ-10

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 110

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF EMERSUB15, LLC NATE WINSTON Signature Date 7/19/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 476CO / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 7/19/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 857841
Date: 7/22/2019
Time: 12:31:48 - 13:26:58

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-111

Gross: 116860 L In Scale 1
Tare: 39200 L Out Scale 2
Net: 77660 L

Tons: 38.83

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.83 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 111

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature [signature] Date 7/22/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State T47740

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/22/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 857935
Date: 7/23/2019
Time: 07:47:36 - 08:32:41

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-112

Gross: 118440 L In Scale 1
Tare: 39500 L Out Scale 2
Net: 78940 L

Tons: 39.47

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.47 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 112

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				
	Non- Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF EMERSUB15, LLC NATE WINSTON Signature [signature] Date 7/23/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 147760/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/23/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 857962
Date: 7/23/2019
Time: 09:18:03 - 09:41:01

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: LH/LONGHORN
Truck: TJ-10
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629

Gross: 116400 L In Scale 1
Tare: 39540 L Out Scale 2
Net: 76860 L

Tons: 38.43

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 38.43 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 113

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature [signature] Date 7/23/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 1586LO / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/23/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858024
Date: 7/23/2019
Time: 11:43:14 - 12:21:49

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-114

Gross: 128160 L In Scale 1
Tare: 39280 L Out Scale 2
Net: 88880 L

Tons: 44.44

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 44.44 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 114

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB 15, LLC NATE WINSTON Signature [signature] Date 7/23/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 147760 / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/23/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858055
Date: 7/23/2019
Time: 12:27:01 - 13:40:23

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-10
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-115

Gross: 116280 L In Scale 1
Tare: 39320 L Out Scale 2
Net: 76960 L

Tons: 38.48

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 38.48 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 115

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB 15, LLC NATE WINSTON Signature [signature] Date 7/23/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 147660/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/23/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858123
Date: 7/23/2019
Time: 15:22:32 - 16:34:09

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-116

Gross: 126880 L In Scale 1
Tare: 38880 L Out Scale 2
Net: 88000 L

Tons: 44.00

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 44.00 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-18

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 116

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature [signature] Date 7/23/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 147760/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/23/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858155
Date: 7/24/2019
Time: 07:40:10 - 08:01:07

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-117

Gross: 121380 L In Scale 1
Tare: 39280 L Out Scale 2
Net: 82100 L

Tons: 41.05

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 41.05 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 117

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

ON BEHALF OF EMERSUBIS, LLC

Name (printed) NATE WINSTON Signature [signature] Date 7/24/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 147760 / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/24/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858167
Date: 7/24/2019
Time: 08:05:15 - 08:26:48

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-10
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-118

Gross: 120780 L In Scale 1
Tare: 39520 L Out Scale 2
Net: 81260 L

Tons: 40.63

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 40.63 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 118

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) NATE WINSTON ON BEHALF OF EMERSUB15, LLC Signature [signature] Date 7/24/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 1476CO/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/24/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858229
Date: 7/24/2019
Time: 11:05:06 - 11:26:46

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-119

Gross: 122560 L In Scale 1
Tare: 39160 L Out Scale 2
Net: 83400 L

Tons: 41.70

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 41.70 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, i declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 119

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 147700

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) David Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/24/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/24/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858236
Date: 7/24/2019
Time: 11:24:15 - 11:48:26

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-10
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-120

Gross: 117820 L In Scale 1
Tare: 39300 L Out Scale 2
Net: 78520 L

Tons: 39.26

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 39.26 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 120

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No 147600

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/24/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 15873TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-24-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

******** Reprinted Ticket ********

Ticket: 858310
Date: 7/24/2019
Time: 14:41:35 - 15:11:12

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-121

Gross: 123620 L In Scale 1
Tare: 38840 L Out Scale 2
Net: 84780 L

Tons: 42.39

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 42.39 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-18

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 121

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 147700

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 07/24/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/24/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858320
Date: 7/24/2019
Time: 15:04:10 - 15:40:04

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-10
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-122

Gross: 121300 L In Scale 1
Tare: 39100 L Out Scale 2
Net: 82200 L

Tons: 41.10

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 41.10 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Richard Dennis

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-10

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 122

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 147600

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/24/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 158 73TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-24-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858365
Date: 7/25/2019
Time: 07:42:16 - 08:07:36

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-123

Gross: 120640 L In Scale 1
Tare: 39340 L Out Scale 2
Net: 81300 L

Tons: 40.65

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 40.65 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 123

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 07/25/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 2087ATK/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/25/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858380
Date: 7/25/2019
Time: 08:00:07 - 08:47:02

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-10
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-124

Gross: 119740 L In Scale 1
Tare: 39620 L Out Scale 2
Net: 80120 L

Tons: 40.06

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 40.06 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 124

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 1476CD

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/25/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 15873TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-25-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858444
Date: 7/25/2019
Time: 11:27:36 - 11:55:43

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-125

Gross: 127020 L In Scale 1
Tare: 39080 L Out Scale 2
Net: 87940 L

Tons: 43.97

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 43.97 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 125

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/25/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State ~~34~~ 208794TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/25/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858493
Date: 7/25/2019
Time: 12:07:58 - 13:55:48

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-10
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-126

Gross: 125120 L In Scale 1
Tare: 39320 L Out Scale 2
Net: 85800 L

Tons: 42.90

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 42.90 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. ~~128~~ 126

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 1476CO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/25/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State ~~15~~873 TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-25-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858575
Date: 7/26/2019
Time: 07:40:03 - 08:30:10

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 216929-127

Gross: 119020 L In Scale 1
Tare: 39320 L Out Scale 2
Net: 79700 L

Tons: 39.85

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 39.85 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 127

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature [signature] Date 7/26/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 147760 / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/26/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858580
Date: 7/26/2019
Time: 07:55:11 - 08:37:58

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-10
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-128

Gross: 122340 L In Scale 1
Tare: 39420 L Out Scale 2
Net: 82920 L

Tons: 41.46

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 41.46 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 128

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUBIS, LLC NATE WINSTON Signature Date 7/26/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 147660/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 7/26/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858668
Date: 7/26/2019
Time: 11:31:53 - 12:37:49

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-129

Gross: 122080 L In Scale 1
Tare: 39080 L Out Scale 2
Net: 83000 L

Tons: 41.50

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 41.50 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 109

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and in proper condition for transport in accordance with applicable laws and regulations.

Name (printed) NATE WINSTON ON BEHALF OF EMERSUB15, LLC Signature [signature] Date 7/26/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 147760 / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/26/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858669
Date: 7/26/2019
Time: 11:38:39 - 12:45:01

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-10
Truck Type: DR/DUMP TRAILER
Profile: 21629/Emersub 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-130

Gross: 117200 L In Scale 1
Tare: 39160 L Out Scale 2
Net: 78040 L

Tons: 39.02

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 39.02 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: Lisa

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 130

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

ON BEHALF OF EMERSUB15, LLC

Name (printed) NATE WINSTON Signature [signature] Date 7/26/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 147660/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/26/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 858882
Date: 7/29/2019
Time: 12:03:48 - 12:54:18

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629/131

Gross: 123500 L In Scale 1
Tare: 37200 L Out Scale 2
Net: 86300 L

Tons: 43.15

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 43.15 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 131

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature [signature] Date 7/29/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 2975C2/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/29/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859019
Date: 7/30/2019
Time: 07:48:32 - 08:54:27

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629

Gross: 122780 L In Scale 1
Tare: 37600 L Out Scale 2
Net: 85180 L

Tons: 42.59

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 42.59 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 132

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 297562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/30/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 208777C / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-30-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859044
Date: 7/30/2019
Time: 09:22:58 - 09:42:39

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629 /133

Gross: 112580 L In Scale 1
Tare: 39280 L Out Scale 2
Net: 73300 L

Tons: 36.65

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 36.65 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 133

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/30/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 2879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/30/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859096
Date: 7/30/2019
Time: 11:43:03 - 12:06:18

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-06
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-134

Gross: 115740 L In Scale 1
Tare: 37500 L Out Scale 2
Net: 78240 L

Tons: 39.12

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 39.12 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-06

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 134

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 297SC2

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature [signature] Date 7/30/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 208 TTC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-30-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859139
Date: 7/30/2019
Time: 12:57:22 - 13:53:08

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629/135

Gross: 116820 L In Scale 1
Tare: 39020 L Out Scale 2
Net: 77800 L

Tons: 38.90

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 38.90 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 135

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/30/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/30/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859178
Date: 7/30/2019
Time: 15:15:43 - 15:40:24

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Gross: 117180 L In Scale 1
Tare: 37240 L Out Scale 2
Net: 79940 L

Tons: 39.97

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 39.97 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount:: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 136

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No 297522

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature [signature] Date 7/30/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20872TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-30-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 7/30/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859252
Date: 7/31/2019
Time: 09:02:28 - 09:24:22

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629/137

Gross: 121340 L In Scale 1
Tare: 39360 L Out Scale 2
Net: 81980 L

Tons: 40.99

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 40.99 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 137

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 147700

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature [signature] Date 07/31/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/31/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859277
Date: 7/31/2019
Time: 09:10:34 - 10:21:28

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629/138

Gross: 118120 L In Scale 1
Tare: 37580 L Out Scale 2
Net: 80540 L

Tons: 40.27

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 40.27 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 138

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 297562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/31/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-31-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859343
Date: 7/31/2019
Time: 12:36:16 - 13:07:20

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629/139

Gross: 119180 L In Scale 1
Tare: 39100 L Out Scale 2
Net: 80080 L

Tons: 40.04

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 40.04 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 139

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 147TCO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/31/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 7/31/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 7/31/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859358
Date: 7/31/2019
Time: 13:16:57 - 13:50:42

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629/140

Gross: 117860 L In Scale 1
Tare: 37340 L Out Scale 2
Net: 80520 L

Tons: 40.26

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 40.26 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 140

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminatd Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 297562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 7/31/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 07-31-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859446
Date: 8/1/2019
Time: 07:52:19 - 08:22:48

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629/141

Gross: 121320 L In Scale 1
Tare: 39340 L Out Scale 2
Net: 81980 L

Tons: 40.99

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 40.99 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

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casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 141

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminated Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 147ZCO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 8/01/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/1/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 1/15

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859472
Date: 8/1/2019
Time: 08:15:20 - 09:27:48

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629/142

Gross: 116780 L In Scale 1
Tare: 37600 L Out Scale 2
Net: 79180 L

Tons: 39.59

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 39.59 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

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casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 142

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminated Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 297562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature [signature] Date 08/01/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-01-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859533
Date: 8/1/2019
Time: 11:39:39 - 12:17:28

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-143

Gross: 118120 L In Scale 1
Tare: 39100 L Out Scale 2
Net: 79020 L

Tons: 39.51

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 39.51 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

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casella

TJ-18

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 143

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminated Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of ~~Emersub~~ 15, LLC Signature [signature] Date 8/01/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Mark H. [signature] Date 8/1/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859582
Date: 8/1/2019
Time: 12:39:49 - 14:09:03

Customer: LE-01181/ONTARIO SPECIALTY
Carrier: TJ/TJ ALLEN
Truck: TJ-06
Truck Type: DR/DUMP TRAILER
Profile: 21629/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21629-144

Gross: 106180 L In Scale 1
Tare: 37340 L Out Scale 2
Net: 68840 L

Tons: 34.42

Materials & Services

Origin: TS/TOMPKINS
Material: AC/ALTERNATIVE DAILY COVER
Quantity: 34.42 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

TJ-06

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 144

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21629	Non-Hazardous Contaminated Soil from AOC 26	32	Tons	Trailer	

Comments Trailer Plate No. 297502

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 8/1/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-01-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 859986
Date: 8/5/2019
Time: 11:58:55 - 12:45:03

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-145

Gross: 102680 L In Scale 1
Tare: 39380 L Out Scale 2
Net: 63300 L

Tons: 31.65

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 31.65 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-06

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 145

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non- Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H				

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB 15, LLC NATE WINSTON Signature [signature] Date 8/5/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877RC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/5/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 860153
Date: 8/6/2019
Time: 09:44:36 - 10:30:13

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/146

Gross: 107460 L In Scale 1
Tare: 39520 L Out Scale 2
Net: 67940 L

Tons: 33.97

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 33.97 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 146

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. BT65107

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature Date 08/06/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 208777L/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 08-06-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 8/6/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 860281
Date: 8/6/2019
Time: 14:40:48 - 15:18:52

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 122780 L In Scale 1
Tare: 39420 L Out Scale 2
Net: 83360 L

Tons: 41.68

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.68 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 147

SECTION I: GENERATOR

Name Emersub5, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROJECT NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
2143	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. BT65107

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and in proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub15 LLC Signature Date 08/06/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877 TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 08-06-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 860377
Date: 8/7/2019
Time: 09:11:39 - 10:13:41

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/148

Gross: 106460 L In Scale 1
Tare: 39640 L Out Scale 2
Net: 66820 L

Tons: 33.41

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 33.41 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 148

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. BT65107

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 8/7/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-07-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 8/7/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 860522
Date: 8/7/2019
Time: 14:46:58 - 15:16:22

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 105720 L In Scale 1
Tare: 39420 L Out Scale 2
Net: 66300 L

Tons: 33.15

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 33.15 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 149

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. BT-65107

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 8/7/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 2087TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-07-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 8/7/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 860642
Date: 6/8/2019
Time: 08:58:12 - 10:06:35

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 113940 L In Scale 1
Tare: 37640 L Out Scale 2
Net: 76300 L

Tons: 38.15

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.15 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 150

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 247562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 8/8/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 2C877L/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-08-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 860701
Date: 8/8/2019
Time: 12:17:06 - 12:46:35

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-151

Gross: 115120 L In Scale 1
Tare: 38980 L Out Scale 2
Net: 76140 L

Tons: 38.07

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.07 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-18

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 151

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 8/8/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 2087TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/8/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 860717
Date: 8/8/2019
Time: 13:03:26 - 13:28:09

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 115620 L In Scale 1
Tare: 37680 L Out Scale 2
Net: 77940 L

Tons: 38.97

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.97 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 152

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 297562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 8/8/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 2087TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-08-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date 8/8/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 860837
Date: 8/9/2019
Time: 08:59:53 - 09:35:11

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/153

Gross: 115320 L In Scale 1
Tare: 37700 L Out Scale 2
Net: 77620 L

Tons: 38.81

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.81 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 153

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No 2973562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature Date 08/09/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 208 7TE / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 08-09-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 860922
Date: 8/9/2019
Time: 12:53:03 - 13:06:39

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DT/DUMP TRUCK
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 115620 L In Scale 1
Tare: 37500 L Out Scale 2
Net: 78120 L

Tons: 39.06

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.06 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 154

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No 297562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature [signature] Date 8/9/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-09-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 8/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 860937
Date: 8/9/2019
Time: 13:25:45 - 13:50:38

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/155

Gross: 117640 L In Scale 1
Tare: 39020 L Out Scale 2
Net: 78620 L

Tons: 39.31

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.31 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 155

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf Emersub 15, LLC Signature Date 8/9/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/9/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 8/9/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 861387
Date: 8/13/2019
Time: 09:18:42 - 10:30:01

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/156

Gross: 112540 L In Scale 1
Tare: 39140 L Out Scale 2
Net: 73400 L

Tons: 36.70

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 36.70 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 156

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 20879 TC

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB 15, LLC NATE WINSTON Signature Date 8/13/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark Young License Plate No./State 20879TC

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/13/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 861402
Date: 8/13/2019
Time: 09:52:56 - 11:01:42

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/157

Gross: 117620 L In Scale 1
Tare: 37520 L Out Scale 2
Net: 80100 L

Tons: 40.05

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.05 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 157

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments trailer # 297562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB 15, LLC NATE WINTON Signature [signature] Date 8/13/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20879TC

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/13/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 861487
Date: 8/13/2019
Time: 13:31:24 - 14:13:58

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: RW/REMEDIATED WATER

Comment: 21435-158

Gross: 124740 L In Scale 1
Tare: 38840 L Out Scale 2
Net: 85900 L

Tons: 42.95

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.95 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

TJ-18

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 158

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147700

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and in proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature [signature] Date 08/13/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/13/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 861498
Date: 8/13/2019
Time: 14:03:03 - 14:32:57

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/159

Gross: 119280 L In Scale 1
Tare: 37340 L Out Scale 2
Net: 81940 L

Tons: 40.97

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.97 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 159

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 297562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 08/13/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 208771TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-13-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 861687
Date: 8/14/2019
Time: 11:04:13 - 12:30:29

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DT/DUMP TRUCK
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/160

Gross: 121480 L In Scale 1
Tare: 37340 L Out Scale 2
Net: 84140 L

Tons: 42.07

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.07 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 160

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 287522

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 08/14/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 208.77TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-14-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 861677
Date: 8/14/2019
Time: 10:58:05 - 12:05:10

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/161

Gross: 115220 L In Scale 1
Tare: 39240 L Out Scale 2
Net: 75980 L

Tons: 37.99

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.99 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 161

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate 147 3CC

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature Date 08/14/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandrowski License Plate No./State 15874TL / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/14/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 861695
Date: 8/14/2019
Time: 11:06:30 - 12:51:23

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/162

Gross: 114300 L In Scale 1
Tare: 38940 L Out Scale 2
Net: 75360 L

Tons: 37.68

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.68 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 162

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147700

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) David Cumming on behalf of Emersub 15, LLC Signature [signature] Date 08/14/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 208 79TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/14/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 861778
Date: 8/14/2019
Time: 15:37:17 - 15:54:06

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ14
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/163

Gross: 121020 L In Scale 1
Tare: 39040 L Out Scale 2
Net: 81980 L

Tons: 40.99

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.99 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 163

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147360

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature Date 8/14/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewondrowski License Plate No./State 15874TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/14/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 861783
Date: 8/14/2019
Time: 15:42:05 - 16:08:37

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/164

Gross: 118220 L In Scale 1
Tare: 37040 L Out Scale 2
Net: 81180 L

Tons: 40.59

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.59 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 164

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 297562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 08/14/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877 TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-14-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 861823
Date: 8/15/2019
Time: 08:02:17 - 08:31:30

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21434/165

Gross: 119680 L In Scale 1
Tare: 37820 L Out Scale 2
Net: 81860 L

Tons: 40.93

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.93 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 165

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 297502

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature Date 08/15/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC /NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 08-15-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 861903
Date: 8/15/2019
Time: 11:14:19 - 11:53:06

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/166

Gross: 118300 L In Scale 1
Tare: 38900 L Out Scale 2
Net: 79400 L

Tons: 39.70

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.70 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 166

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 8/15/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 208TTC

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/15/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date 8/15/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 861914
Date: 8/15/2019
Time: 11:47:26 - 12:06:14

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/167

Gross: 112820 L In Scale 1
Tare: 37420 L Out Scale 2
Net: 75400 L

Tons: 37.70

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.70 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 167

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No 297562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dave Cummings on behalf of Emersub 15, LLC Signature [signature] Date 08/15/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 2087TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-15-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862049
Date: 8/16/2019
Time: 08:19:25 - 08:48:20

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/168

Gross: 117740 L In Scale 1
Tare: 37580 L Out Scale 2
Net: 80160 L

Tons: 40.08

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.08 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 168

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 2475C2

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 08/16/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 2087TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-16-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

~~Discrepancy Form Attached~~

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862075
Date: 8/16/2019
Time: 09:27:18 - 09:47:21

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/169

Gross: 125280 L In Scale 1
Tare: 39040 L Out Scale 2
Net: 86240 L

Tons: 43.12

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 43.12 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 169

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 1477CO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature [signature] Date 8/16/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/16/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862145
Date: 8/16/2019
Time: 12:20:51 - 12:40:19

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/170

Gross: 115840 L In Scale 1
Tare: 37300 L Out Scale 2
Net: 78540 L

Tons: 39.27

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.27 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 170

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 297562

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) _____ Signature _____ Date 08/16/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature _____ Date 08-16-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest _____

Discrepancy Form Attached _____

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent _____ Signature _____ Date _____

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862161
Date: 8/16/2019
Time: 13:09:35 - 13:31:49

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 214358/171

Gross: 123220 L In Scale 1
Tare: 38900 L Out Scale 2
Net: 84320 L

Tons: 42.16

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.16 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 171

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer lp 147ZCU

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature [signature] Date 8/16/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TL

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/16/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862412
Date: 8/19/2019
Time: 13:04:58 - 13:38:31

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-172

Gross: 123100 L In Scale 1
Tare: 39300 L Out Scale 2
Net: 83800 L

Tons: 41.90

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.90 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

casella

TJ-18

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 172

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Ip 1477CO

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature [signature] Date 8/19/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879 TC

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/19/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862504
Date: 8/20/2019
Time: 07:45:47 - 08:02:20

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/173

Gross: 128840 L In Scale 1
Tare: 39360 L Out Scale 2
Net: 89480 L

Tons: 44.74

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 44.74 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 173

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Dan Cummings on behalf of Emersub 15, LLC Signature [signature] Date 08/20/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/20/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal [illegible] my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862534
Date: 8/20/2019
Time: 08:47:47 - 09:05:29

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/174

Gross: 120500 L In Scale 1
Tare: 37680 L Out Scale 2
Net: 82820 L

Tons: 41.41

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.41 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 174

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 297502

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature [signature] Date 08/20/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-20-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862610
Date: 8/20/2019
Time: 11:18:42 - 11:39:22

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/175

Gross: 120200 L In Scale 1
Tare: 39120 L Out Scale 2
Net: 81080 L

Tons: 40.54

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.54 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 175

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 8/20/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/20/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

~~Discrepancy Form Attached~~

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date [signature]

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

...S NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862636
Date: 8/20/2019
Time: 12:23:38 - 12:51:39

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ-06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435-176

Gross: 117280 L In Scale 1
Tare: 37320 L Out Scale 2
Net: 79960 L

Tons: 39.98

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.98 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

y signing above, I declare that I did NOT
eposit any PROHIBITED WASTES

****

TJ-06

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 176

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No 2975C2

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf Emersub 15 LLC Signature [signature] Date 8/20/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 20877TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 08-20-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862701
Date: 8/20/2019
Time: 15:00:47 - 15:19:33

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/177

Gross: 127660 L In Scale 1
Tare: 39000 L Out Scale 2
Net: 88660 L

Tons: 44.33

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 44.33 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 177

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature [signature] Date 8/20/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/20/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862749
Date: 8/21/2019
Time: 07:56:16 - 08:16:00

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/178

Gross: 121580 L In Scale 1
Tare: 39260 L Out Scale 2
Net: 82320 L

Tons: 41.16

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.16 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 178

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 08/21/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/21/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862865
Date: 8/21/2019
Time: 12:00:39 - 12:23:03

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/179

Gross: 125360 L In Scale 1
Tare: 39060 L Out Scale 2
Net: 86300 L

Tons: 43.15

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 43.15 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 179

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature [signature] Date 8/21/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/21/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862961
Date: 8/21/2019
Time: 15:52:01 - 16:07:58

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435

Gross: 121680 L In Scale 1
Tare: 38740 L Out Scale 2
Net: 82940 L

Tons: 41.47

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.47 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 180

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 147760

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15 LLC Signature [signature] Date 8/21/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/21/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 862992
Date: 8/22/2019
Time: 07:51:36 - 08:09:30

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/181

Gross: 121520 L In Scale 1
Tare: 39280 L Out Scale 2
Net: 82240 L

Tons: 41.12

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.12 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 181

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No.

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature [signature] Date 8/22/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/22/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 863017
Date: 8/22/2019
Time: 08:57:08 - 09:25:40

Customer: LE-01137/ONTARIO SPECIALITY
Carrier: TJA/TJ/ ALLEN
Truck: TJ06
Truck Type: DR/DUMP TRAILER
Profile: 21435/EMERSUB 15,LLC, SITE
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21435/182

Gross: 102560 L In Scale 1
Tare: 37040 L Out Scale 2
Net: 65520 L

Tons: 32.76

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 32.76 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 182

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21435	Non-Haz Soil Concrete from AOC 30 & 35A	32	Tons	Trailer	
	Concrete from AOC 28 Lower, AOC 28 Lower, AOC 28 Upper, AOC 29,				
	AOC 30 Shallow, AOC 30 Deep, AOC 35A, AOC 35D, AOC 35H, and AOC 35K				
	Non-Haz Soil & Concrete AOC 29, AOC 35C, AOC 35H, AOC 32, Sewer Network Test pits				
	Non-Haz Soil from AOC 28 Upper and AOC 28 Lower, AOC 34, AOC 35L				

Comments Trailer Plate No. 2975C2

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) Daniel Cummings on behalf of Emersub 15, LLC Signature Date 08/22/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 208TTC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 08-22-19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 863751
Date: 8/27/2019
Time: 08:14:30 - 08:31:37

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/183

Gross: 117340 L In Scale 1
Tare: 39400 L Out Scale 2
Net: 77940 L

Tons: 38.97

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.97 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

117 HW

Manifest No. 183

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB 15, LLC NATE WINSTON Signature Date 8/27/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TL/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Mark H. Young Date 8/27/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 8/27/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 863752
Date: 8/27/2019
Time: 08:15:11 - 08:32:49

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ22
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/184

Gross: 120440 L In Scale 1
Tare: 38740 L Out Scale 2
Net: 81700 L

Tons: 40.85

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.85 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 184

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB 15 LLC NATE WINSTON Signature [signature] Date 8/27/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Cavanderowski License Plate No./State 718029C/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/27/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date 8/27/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 863851
Date: 8/27/2019
Time: 11:41:44 - 11:58:14

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798 lids

Gross: 124880 L In Scale 1
Tare: 39080 L Out Scale 2
Net: 85800 L

Tons: 42.90

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.90 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 185

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature Date 8/27/15

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/27/15

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 8/27/15

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 863878
Date: 8/27/2019
Time: 12:36:21 - 12:55:55

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ-22
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798-186

Gross: 115560 L In Scale 1
Tare: 38420 L Out Scale 2
Net: 77140 L

Tons: 38.57

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.57 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 186

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB 15, LLC NATE WINSTON Signature [signature] Date 8/27/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 71802PC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/27/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 863993
Date: 8/28/2019
Time: 07:35:00 - 07:55:13

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: FH9C2/PHASE9C2

Comment: 21798/187

Gross: 120960 L In Scale 1
Tare: 39440 L Out Scale 2
Net: 81520 L

Tons: 40.76

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.76 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 167

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature Date 8/28/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 147760/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/28/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864006
Date: 8/28/2019
Time: 07:52:41 - 08:23:59

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ22
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/188

Gross: 107780 L In Scale 1
Tare: 38780 L Out Scale 2
Net: 69000 L

Tons: 34.50

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 34.50 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 188

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature [signature] Date 8/28/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 7180 2PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/28/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864015
Date: 8/28/2019
Time: 08:28:15 - 08:45:45

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/189

Gross: 121640 L In Scale 1
Tare: 38680 L Out Scale 2
Net: 82960 L

Tons: 41.48

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.48 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 189

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature Date 8/28/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 19714TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/28/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864093
Date: 8/28/2019
Time: 10:55:16 - 11:22:30

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/190

Gross: 122720 L In Scale 1
Tare: 39280 L Out Scale 2
Net: 83440 L

Tons: 41.72

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.72 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 190

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature Date 8/28/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 147760/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/28/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864106
Date: 8/28/2019
Time: 11:23:23 - 11:53:31

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ22
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/191

Gross: 124180 L In Scale 1
Tare: 38600 L Out Scale 2
Net: 85580 L

Tons: 42.79

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.79 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 191

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

ON BEHALF OF EMERSUB15, LLC

Name (printed) NATE WINSTON Signature Date 8/28/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Levandowski License Plate No./State 71807PC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/28/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

~~Discrepancy Form Attached~~

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864115
Date: 8/28/2019
Time: 11:57:36 - 12:18:17

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2
Comment: 21798/192

Gross: 115680 L In Scale 1
Tare: 38560 L Out Scale 2
Net: 77120 L

Tons: 38.56

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.56 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 192

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

ON BEHALF OF EMERSUBIS, LLC

Name (printed) NATE WINSTON Signature Date 8/28/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 19714TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/28/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864223
Date: 8/28/2019
Time: 15:33:13 - 15:56:25

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/193

Gross: 120920 L In Scale 1
Tare: 38280 L Out Scale 2
Net: 82640 L

Tons: 41.32

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.32 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 193

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

ON BEHALF OF EMERSUB15, LLC

Name (printed) NATE WINSTON Signature [signature] Date 8/28/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 197L4TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/28/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864269
Date: 8/29/2019
Time: 08:12:57 - 08:37:29

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/194

Gross: 125820 L In Scale 1
Tare: 39360 L Out Scale 2
Net: 86460 L

Tons: 43.23

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 43.23 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 194

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature [signature] Date 8/29/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/29/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date 8/29/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864273
Date: 8/29/2019
Time: 08:23:38 - 08:49:40

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ22
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/195

Gross: 121540 L In Scale 1
Tare: 38700 L Out Scale 2
Net: 82840 L

Tons: 41.42

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.42 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 195

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

ON BEHALF OF EMERSUB15, LLC

Name (printed) NATE WINSTON Signature Date 8/29/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 71802 AC

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/29/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864276
Date: 8/29/2019
Time: 08:24:24 - 08:53:09

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/196

Gross: 119860 L In Scale 1
Tare: 38700 L Out Scale 2
Net: 81160 L

Tons: 40.58

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.58 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 196

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature Date 8/29/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State 304060/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/29/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864367
Date: 8/29/2019
Time: 11:35:01 - 12:00:30

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/1978

Gross: 113840 L In Scale 1
Tare: 39020 L Out Scale 2
Net: 74820 L

Tons: 37.41

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 37.41 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 197

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

ON BEHALF OF EMERSUB15, LLC

Name (printed) NATE WINSTON Signature [signature] Date 8/29/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/29/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864369
Date: 8/29/2019
Time: 11:51:40 - 12:07:12

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ22
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/198

Gross: 118780 L In Scale 1
Tare: 38380 L Out Scale 2
Net: 80400 L

Tons: 40.20

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.20 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 198

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

ON BEHALF OF EMERSUB15, LLC

Name (printed) NATE WINSTON Signature [signature] Date 8/29/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 71402RC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 8/29/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

~~Discrepancy Form Attached~~

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864385
Date: 8/29/2019
Time: 12:15:11 - 12:45:34

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ16
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/199

Gross: 119080 L In Scale 1
Tare: 38400 L Out Scale 2
Net: 80680 L

Tons: 40.34

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.34 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 199

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB 15, LLC NATE WINSTON Signature Date 8/29/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Ben Morris License Plate No./State ~~997562~~ 304OCO / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/29/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864505
Date: 8/30/2019
Time: 07:41:09 - 07:55:19

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ22
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/200

Gross: 119920 L In Scale 1
Tare: 38700 L Out Scale 2
Net: 81220 L

Tons: 40.61

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.61 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 200

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

ON BEHALF OF EMERSUB15, LLC

Name (printed) NATE WINSTON Signature Date 8/30/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Jamie Lewandowski License Plate No./State 71802RC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/30/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864514
Date: 8/30/2019
Time: 07:54:52 - 08:10:45

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/201

Gross: 120660 L In Scale 1
Tare: 39240 L Out Scale 2
Net: 81420 L

Tons: 40.71

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.71 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 201

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB, LLC NATE WINSTON Signature Date 8/30/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20579 / TC

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 8/30/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 864928
Date: 9/3/2019
Time: 12:15:06 - 13:57:51

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ-18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/202

Gross: 123360 L In Scale 1
Tare: 39220 L Out Scale 2
Net: 84140 L

Tons: 42.07

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 42.07 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

TJ-18

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 202

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINTERS Signature [signature] Date 9/3/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 9/3/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 865125
Date: 9/4/2019
Time: 10:36:58 - 11:30:46

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/203

Gross: 125260 L In Scale 1
Tare: 39240 L Out Scale 2
Net: 86020 L

Tons: 43.01

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 43.01 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 203

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

ON BEHALF OF EMERSUB15, LLC

Name (printed) NATE WINGTON Signature Date 9/4/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 9/4/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 9/4/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 865244
Date: 9/4/2019
Time: 14:28:41 - 15:40:21

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/204

Gross: 119300 L In Scale 1
Tare: 39040 L Out Scale 2
Net: 80260 L

Tons: 40.13

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.13 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 204

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB 15, LLC NATE WINSTON Signature Date 9/4/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 09/04/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 865291
Date: 9/5/2019
Time: 07:43:31 - 07:57:08

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/205

Gross: 122900 L In Scale 1
Tare: 39500 L Out Scale 2
Net: 83400 L

Tons: 41.70

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 41.70 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 205

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

ON BEHALF OF EMERSUB 15, LLC

Name (printed) NATE WINSTON Signature [signature] Date 9/5/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 9/5/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 865387
Date: 9/5/2019
Time: 11:07:39 - 11:21:16

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/203

Gross: 119020 L In Scale 1
Tare: 39120 L Out Scale 2
Net: 79900 L

Tons: 39.95

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.95 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 206

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature Date 9/5/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 9/5/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date 9/5/19

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 865555
Date: 9/6/2019
Time: 07:41:25 - 08:21:32

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/207

Gross: 115900 L In Scale 1
Tare: 39180 L Out Scale 2
Net: 76720 L

Tons: 38.36

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 38.36 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 207

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

ON BEHALF OF EMERSUB15, LLC

Name (printed) NATE WINSTON Signature [signature] Date 9/6/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature [signature] Date 9/6/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature [signature] Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 865639
Date: 9/6/2019
Time: 11:27:36 - 11:42:08

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/208

Gross: 118800 L In Scale 1
Tare: 38940 L Out Scale 2
Net: 79860 L

Tons: 39.93

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 39.93 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 208

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

ON BEHALF OF EMERSUB15, LLC

Name (printed) NATE WINSTON Signature Date 9/6/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 9/6/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 866089
Date: 9/10/2019
Time: 07:44:40 - 08:12:15

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/216

Gross: 120120 L In Scale 1
Tare: 39160 L Out Scale 2
Net: 80960 L

Tons: 40.48

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 40.48 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 216

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature Date 9/10/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TL/NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 9/10/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

NEWS NE / ONTARIO COUNTY LANDFILL

A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

Ticket: 866356
Date: 9/11/2019
Time: 07:58:36 - 09:33:04

Customer: LE-01210/ONTARIO SPECIALITY
Carrier: TJ/TJ ALLEN
Truck: TJ18
Truck Type: DR/DUMP TRAILER
Profile: 21798/EMERSUB 15, LLC
Generator: EMER/EMERSUB 15, LLC
Grid: PH9C2/PHASE9C2

Comment: 21798/217

Gross: 91520 L In Scale 1
Tare: 39500 L Out Scale 2
Net: 52020 L

Tons: 26.01

Materials & Services

Origin: TS/TOMPKINS
Material: IN/INDUSTRIAL WASTE
Quantity: 26.01 Ton
Rate: $0.00/T
Amount: $ 0.00

Total Taxes: $ 0.00
Total Amount: $ 0.00

Weighmaster: NANCY

Driver:

By signing above, I declare that I did NOT deposit any PROHIBITED WASTES

****

casella

NON-HAZARDOUS WASTE MANIFEST

Manifest No. 217

SECTION I: GENERATOR

Name Emersub 15, LLC Phone 412-375-0282

Address c/o WSP USA Inc., 11 Stanwix Street, Suite 950, Pittsburgh, PA

Shipping Location 620 South Aurora St., Ithaca, NY Phone 412-375-0282

CASELLA PROFILE NUMBER	DESCRIPTION OF WASTE	QTY.	UNITS	CONTAINER	
21798	Non-Hazardous Contaminated Soil from AOC 32 Drainage Ditch and AOC 35G	32	Tons	Trailer	

Comments

I hereby certify that I am authorized to sign on behalf of the Generator. I certify that the above named material(s) are not considered hazardous and do not contain free liquids as defined by 40 CFR Part 261 and Part 260. The material has been properly described, classified, packaged and proper condition for transport in accordance with applicable laws and regulations.

Name (printed) ON BEHALF OF EMERSUB15, LLC NATE WINSTON Signature Date 9/11/19

SECTION II: TRANSPORTER

Transporter Name TJ Allen Bulk Services, LLC. Phone 315-845-6777

Address 219 White Creek Road, Newport, NY 13416

Driver Name Mark H. Young License Plate No./State 20879TC / NY

I hereby certify that the material described above was picked up on the date and at the location listed above. The material was transported without incident directly from the generator to the disposal facility named below and to the best of my knowledge only the waste described above is contained in this load.

Signature Date 9/11/19

SECTION III: DISPOSAL FACILITY

Site Name: **Ontario County Landfill**
1879 Routes 5 & 20
Stanley, NY 14561

Discrepancy Found on Manifest

Discrepancy Form Attached

I hereby certify that the waste material indicated above has been accepted for disposal and to the best of my knowledge, the foregoing information is true and accurate.

Authorized Agent Signature Date

White: Landfill Copy Yellow: Transporter Copy Pink: Operator Copy Gold: Generator Copy

APPENDIX

J HAZARDOUS WASTE PROFILES

Profile Tracking # _____

WASTE PROFILE FORM

For assistance in completing this document or for additional information on service offerings, please visit our website at www.usecology.com or call 800-592-5489.

US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.

If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:

Waste Common Name: F001 Soil for Direct Landfill

Section 1 - Generator & Customer Information

Generator EPA ID # NYD-002-228-625

Generator Emersub 15 LLC

Facility Address 620 SOUTH AURORA STREET

City ITHACA State NY Zip 14850

24-hour Emergency Response Number ( ) -

Mailing Address 11 STANWIX STREET, SUITE 950

City PITTSBURGH State PA Zip 15222

Generator Contact David Rykaczewski

Title Sr. Technical Manage

Phone (412) 375-0282 Fax ( ) -

E-mail dave.rykaczewski@wsp.com

Internal Use Only: EQ Division _____

EQ Customer No. 13552

Invoicing Company ONTARIO SPECIALTY CONTRACTING INC

Address 333 GANSON STREET

City BUFFALO State NY Zip 14203

Country USA

Invoicing Contact Ryan McCann

Phone (716) 856-3333 Fax (716) 842-1785

Technical Contact Alen Trpevski

Phone (716) 856-3333303 Fax (716) 824-1785

Cell Phone (716) 818-3390

E-mail atrpevski@oscinc.com

Section 2 - Shipping & Packaging Information

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: 200 TONS

b) Frequency: ● One Time ○ Month ○ Quarter ○ Year ○ Other _____

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ● Yes ○ No

b) If "Yes", indicate the proper shipping name per 49 CFR 172.101 Hazardous Materials Table:
RQ, NA3077, Hazardous waste, solid, n.o.s. (Trichloroethene), 9, PGIII, (F001), ERG#171

Section 3 - Special Properties

3.1) Color BLACK/BROWN

3.2) Odor ☑ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia
☐ Other: _____

3.3) Consistency at 70 °F: ☑ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☐ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☐ ≤2 ☐ 2.1-4.9 ☑ 5-10 ☐ 10.1-12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90 °F ☐ 90-139 °F ☐ 140-199 °F ☐ ≥200 °F ☑ N/A

3.6) Does this waste exhibit any of the following properties? **(check all that apply)**

☑ **None**	☐ Free Liquids	☐ Metal Fines	☐ Water Reactive	☐ Biohazard
☐ Shock Sensitive	☐ Oily Residue	☐ Dioxins	☐ Furans	☐ Aluminum
☐ Asbestos -non- friable	☐ Asbestos - friable	☐ Other Radioactive	☐ Air Reactive	☐ Isocyanates
☐ Biodegradable Sorbents	☐ Pyrophoric	☐ Reactive Sulfide	☐ Reactive Cyanide	☐ Explosives
☐ Temperature Controlled Organic Peroxide		☐ NORM	☐ TENORM	

Section 4 - Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges or the concentration of each component, either estimated or known.

F001 contaminated Soil 99. to 100. %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

Remediation

4.3) Are there any known previous handling or treatment issues involving this waste? ○ Yes* ● No

*If yes, describe:

Section 5 - Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules: **Please list applicable waste code(s):**

5.1) Is this waste exempted from RCRA? ○ Yes ● No

If Yes, please provide exemption:

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ● Yes ○ No F001

a) For F006-F009, F012, does this come from a generator that conducts a cyanide plating process? ○ Yes ● No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ○ Yes ● No

5.4) Do any State Specific Hazardous Waste Codes apply? ○ Yes ● No

If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.

5.5) EPA Source Code: G22 EPA Form Code: W301

5.6) Waste Code Determination Is Based On: ☐ Generator Knowledge ☑ Analysis ☐ MSDS

Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.

5.7) Does this waste exceed Land Disposal Restriction levels? ○ Yes ● No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ○ WW ● NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ● Yes ○ No

c) Does this waste contain greater than 50% debris, by volume? ○ Yes ● No
(Debris is greater than 2.5 inches in size.)

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ○ Yes* ● No

*If Yes, please list:

For a complete list of UHC constituents, please refer to 40 CFR 268.48

Section 6 - Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ○ Yes ● No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG) ? ○ UNIV ○ RG ● N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ○ Yes ● No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ○ Yes ○ No

b) If yes, what is the source of the halogen content?

○ This is a metalworking oil/fluid containing chlorinated paraffins.
○ This is a used oil contaminated with chlorofluorocarbons from refrigeration units.
○ This oil contains halogenated solvents. List specific solvents:
○ Other, describe:

Section 7 - TSCA Information

7.1) What is the concentration of PCBs in the waste? ☑ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm

7.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ○ Yes ● No ○ Unknown

If you answered "none" or '0-49 ppm' to 7.1 and "no" to 7.2, please proceed to Section 8.

7.3) Has this waste been processed into a non-liquid form? ○ Yes* ○ No

*If yes, what was the concentration of PCBs prior to processing? ○ 0-499 ppm ○ 500+ ppm

7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ○ Yes ○ No

7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ○ Yes ○ No

7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ○ Yes ○ No ○ N/A

Section 8 - Clean Air Act Information

8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ○ Yes ● No

8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ○ Yes ● No

8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ○ Yes* ● No

*If Yes this document serves as notification that this waste contains chemicals _____, _____ required to be managed in accordance with Part ○ 61 ○ 62 ○ 63 Subpart _____ of NESHAP/MACT standards.

8.4) Does this waste stream contain Benzene? ○ Yes ● No

If you answered "no" to 8.4, please proceed to Section 9.

8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)? ○ Yes ○ No

If Yes, please provide the SIC/NAICS code: _____

If you answered "no" to 8.5, please proceed to Section 9.

8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site? ○ Yes ○ No

If Yes, please specify: _____

8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ○ Yes ○ No

8.8) Does the waste contain >10% water? ○ Yes ○ No

8.9) What is the TAB quantity for your facility? _____ Mg/year

8.10) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.

Section 9 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.

Generator Signature [signature] Printed Name David Rykaczewski (on behalf of Emersub 15, LLC)

Company WSP USA Inc. Title Sr. Technical Manager Date 12/13/18

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure.

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

Bulk Disposal Charges

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

US ecology

GENERATOR APPROVAL NOTIFICATION

Customer: ONTARIO SPECIALTY CONTRACTING INC January 4, 2019

ENVIRONMENTAL MANAGER
EMERSON POWER TRANSMISSION
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222

This Generator Approval Notification acknowledges the acceptability of waste material(s) into the noted EQ facility(s) identified below and ensures that each facility has the appropriate permit(s) issued by federal and state regulatory agencies to properly transport, treat, and/or dispose of the waste material(s).

The Approval(s) listed below are based upon characterization information supplied to EQ by the Customer and the Generator (if other than the Customer). The Customer is ultimately responsible for the accuracy and completeness of all such information, whether provided by the Customer or the Generator. The Customer must notify EQ immediately upon knowledge of any changes to this information. The Approval and all wastes which are transported, delivered, or tendered to EQ under this Approval shall be subject to the Standard Terms and Conditions associated with the original Waste Profile Form. (The Standard Terms and Conditions are incorporated into the Waste Profile Form as Page 4.)

The Approval(s) will expire on the date(s) noted. Any new Approvals obtained from EQ on future business will be valid for a period of one (1) year from the date of issuance. Within 60 days of the Approval Expiration Date, you will be notified of the requirements for recertification.

Generator: EMERSON POWER TRANSMISSION
EPA ID No.: NYD002228625

Waste Common Name: F001 Soil for Direct Landfill
Waste Code(s): F001
Comments: MUST MEET TREATMENT STANDARDS.

Approval No.: L180094WDI **Expiration Date:** 12/20/2019
EQ Facility Name & ID Number: Wayne Disposal, Inc. (MID048090633)

MEMORANDUM

FROM: Brian DePorre, Technical Manager, brian.deporre@usecology.com, 734-699-6215

SUBJECT: Prevention of Leaking Shipments to US Ecology Michigan (MDI/WDI)

DATE: July 23, 2018

Protecting human health and the environment is a top priority at US Ecology. Preventing leaking trucks is important to comply with DOT and RCRA regulations. Proper selection of container type, lining of containers (including with sealable liners if necessary), tarping to repel rainwater, addition of absorbents (if allowable), maintaining the integrity of shipping containers, and keeping moisture from entering waste at job sites can help reduce the potential for leaks.

During a recent public hearing, our host community expressed concern about alleged leaking trucks entering our facility in Belleville, Michigan (USEM). We take this concern very seriously and ask for your help ensuring shipments are not leaking, bearing in mind that liquids may separate from the waste in transit. Leaking hazardous waste puts the offeror and transporter at risk for violations and fines and is not aligned with our priority of protecting human health and the environment.

Generators: Your signature as generator and/or offeror certifies hazardous material has been properly packaged to prevent residue on the outside of the package as well as to prevent leakage during transportation. Failure to comply could result in DOT fines beginning at $7,500 per occurrence. Further, as a result of public concern the Michigan Department of Environmental Quality (MDEQ) will randomly inspect shipments arriving at USEM and may take action on any leaking trucks. For non-Michigan generators, MDEQ may contact your state regulator. For Michigan generators, MDEQ may take actions against you.

Transporters: DOT regulations prohibit transporters from accepting hazardous material that is not packaged to prevent residue on the outside of the package and to prevent leakage during transportation. Failure to comply could result in DOT fines beginning at $7,500 per occurrence; render the driver, vehicle and/or cargo out of service until the conditions are corrected; impact your Compliance Safety and Accountability score, identifying you as a high-risk motor carrier.

Your cooperation is essential to maintaining your DOT and RCRA compliance while also maintaining the trust and confidence of our regulators and host community.

Questions may be directed to your Customer Service representative at 800-592-5489 or to Brian DePorre (contact info listed above).

Thank you for supporting this important effort and helping us protect human health and the environment.

US ecology

LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: EMERSON POWER TRANSMISSION
620 S. AURORA STREET , ITHACA, NY 14850

U.S. EPA ID No.: NYD002228625

Manifest:

Page - Line
1 - 01 **Approval:** L180094WDI NWW

Waste Code(s): F001

Hazardous Constituents: NONE

Subcategory(s):

Certification: THIS RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT.

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D. I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

Generator Signature: _____ **Title:** Senior Technical Manager - WSP

Printed Name: David Rykaczewski (on behalf of Emersub 15, LLC) **Date:** January 2, 2019

For questions regarding this form, please call Customer Service at (800) 592-5489.

Profile Tracking # _____

WASTE PROFILE FORM

For assistance in completing this document or for additional information on service offerings, please visit our website at www.usecology.com, or call 800-592-5489.

US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.

If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:

Waste Common Name: D005 Soil

Section 1 – Generator & Customer Information

Generator EPA ID # NYD-002-228-625

NAICS/SIC Code _____

Generator Emersub 15 LLC

Facility Address 620 South Aurora Street

City Ithaca State NY Zip 14850

24-hour Emergency Response Number

1-800-839-3975

Mailing Address 11 Stanwix Street, Suite 950

City Pittsburgh State PA Zip 15222

Generator Contact Dave Rykaczewski

Title Sr. Technical Manager

Phone 412-375-0282 Fax _____

E-mail dave.rykaczewski@wsp.com

Internal Use Only: EQ Division _____

EQ Customer No. 13552

Invoicing Company Ontario Specialty Contracting, Inc.

Address 333 Ganson Street

City Buffalo State NY Zip 14203

Country USA

Invoicing Contact Alen Trpevski

Phone 716-856-3333 Fax 716-842-1785

Technical Contact Alen Trpevski

Phone 716-856-3333 Fax 716-842-1785

Cell Phone 716-818-3390

E-mail atrpevski@oscinc.com

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: 220 tons

b) Frequency: ☒ One time ☐ Month ☐ Year ☐ Other: _____

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49CFR 172.101 Hazardous Materials Table:

RQ, NA3077, Hazardous Waste, Solid, N.O.S. (Barium), 9, PGIII (D005), ERG #171

Section 3 – Special Properties

3.1) Color Black/ Brown/ Grey

3.2) Odor ☒ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia

☐ Other: _____

3.3) Consistency at 70°F: ☒ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☐ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☐ ≤2 ☐ 2.1-4.9 ☒ 5 – 10 ☐ 10.1 – 12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90°F ☐ 90-139°F ☐ 140-199°F ☒ >200°F ☐ N/A

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3.6) Does this waste exhibit any of the following properties? **(check all that apply)**

☒ **None**	☐ Free Liquids	☐ Metal Fines	☐ Water Reactive	☐ Biohazard
☐ Shock Sensitive	☐ Oily Residue	☐ Dioxins	☐ Furans	☐ Aluminum
☐ Asbestos – non-friable	☐ Asbestos – friable	☐ Other Radioactive	☐ Air Reactive	☐ Isocyanates
☐ Biodegradable Sorbents	☐ Pyrophoric	☐ Reactive Sulfide	☐ Reactive Cyanide	☐ Explosives
☐ Temperature Controlled Organic Peroxide		☐ NORM	☐ TENORM	

Section 4 – Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges of the material, either estimated or known.

Soil 75 to 90 % _____ ____ to ____%

Rock Fragments 10 to 25 % _____ ____ to ____%

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

Remediation. Site History was summarized in NYSDEC Fact Sheet (March 2018) that was emailed on July 30, 2019

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes* ☒ No

*If yes, describe: _____

Section 5 – Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules: **Please list applicable waste code(s):**

5.1) Is this waste exempted from RCRA? ☐ Yes, please provide exemption: _____ ☒ No

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes: _____ ☒ No

a) For F006–F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☐ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes: D005 ☐ No

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes: _____ ☒ No

If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.

5.5) EPA Source Code: G44 EPA Form Code: W301

5.6) Waste Code Determination Is Based On: ☐ Generator Knowledge ☒ Analysis ☐ MSDS

Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ☐ WW ☒ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40CFR 268.49? ☐ Yes ☒ No

c) Does this waste contain greater than 50% debris, by volume? ☐ Yes ☒ No
(Debris is greater than 2.5 inches in size.)

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

_____

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☐ Yes* ☒ No

*If Yes, please list: _____

For a complete list of UHC constituents, please refer to 40 CFR 268.48

Section 6 – Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☒ No _____

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG)? ☐ UNIV ☐ RG ☒ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☒ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

- ☐ This is a metalworking oil/fluid containing chlorinated paraffins.
- ☐ This is used oil contaminated with chlorofluorocarbons from refrigeration units.
- ☐ This oil contains halogenated solvents. List specific solvents: _____
- ☐ Other, describe: _____

Section 7 – TSCA Information

7.1) What is the concentration of PCBs in the waste? ☐ None ☒ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm

7.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No ☐ Unknown

If you answered "none" or "0-49 ppm"' to 7.1 and "no" to 7.2, please proceed to Section 8.

7.3) Has this waste been processed into a non-liquid form? ☐ Yes* ☐ No

*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm

7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No

7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No

7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 8 – Clean Air Act Information

8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No

8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No

8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes* ☒ No

*If Yes this document serves as notification that this waste contains chemicals _____ , _____ required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart _____ of NESHAP/MACT standards.

8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 8.4, please proceed to Section 9.

8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)?

☐ Yes, please provide the SIC/NAICS code: _____ ☐ No

If you answered "no" to questions 8.5, please proceed to Section 9.

8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site?

☐ Yes, please specify: _____ ☐ No

8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB) ≥10 Mg/year? ☐ Yes ☐ No

8.8) Does the waste contain >10% water? ☐ Yes ☐ No

8.9) What is the TAB quantity for your facility? _____ Mg/Year

8.10) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.

Section 9 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.

Generator Signature _____ Printed Name David Rykaczewski (On behalf of Emersub 15, LLC)

Company WSP USA Inc. Title Sr. Technical Manager Date 8/8/19

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"**Acceptable Waste"** shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"**Delivered Wastes"** shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

Bulk Disposal Charges

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Profile Tracking # _____

WASTE PROFILE FORM

For assistance in completing this document or for additional information on service offerings, please visit our website at www.usecology.com, or call 800-592-5489.

US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.

If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:

Waste Common Name: D005 Concrete

Section 1 – Generator & Customer Information

Generator EPA ID # NYD-002-228-625

NAICS/SIC Code _____

Generator Emersub 15 LLC

Facility Address 620 South Aurora Street

City Ithaca State NY Zip 14850

24-hour Emergency Response Number

1-800-839-3975

Mailing Address 11 Stanwix Street, Suite 950

City Pittsburgh State PA Zip 15222

Generator Contact Dave Rykaczewski

Title Sr. Technical Manager

Phone 412-375-0282 Fax _____

E-mail dave.rykaczewski@wsp.com

Internal Use Only: EQ Division _____

EQ Customer No. 13552

Invoicing Company Ontario Specialty Contracting, Inc.

Address 333 Ganson Street

City Buffalo State NY Zip 14203

Country USA

Invoicing Contact Alen Trpevski

Phone 716-856-3333 Fax 716-842-1785

Technical Contact Alen Trpevski

Phone 716-856-3333 Fax 716-842-1785

Cell Phone 716-818-3390

E-mail atrpevski@oscinc.com

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: 80 tons

b) Frequency: ☒ One time ☐ Month ☐ Year ☐ Other: _____

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49CFR 172.101 Hazardous Materials Table:

RQ, NA3077, Hazardous waste, solid, n.o.s (Barium), 9, PGIII (D005), ERG # 171

Section 3 – Special Properties

3.1) Color Black/ Brown/ Grey

3.2) Odor ☒ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia ☐ Other: _____

3.3) Consistency at 70°F: ☒ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☐ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☐ ≤2 ☐ 2.1-4.9 ☒ 5 – 10 ☐ 10.1 – 12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90°F ☐ 90-139°F ☐ 140-199°F ☒ >200°F ☐ N/A

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3.6) Does this waste exhibit any of the following properties? **(check all that apply)**

☒ **None**	☐ Free Liquids	☐ Metal Fines	☐ Water Reactive	☐ Biohazard
☐ Shock Sensitive	☐ Oily Residue	☐ Dioxins	☐ Furans	☐ Aluminum
☐ Asbestos – non-friable	☐ Asbestos – friable	☐ Other Radioactive	☐ Air Reactive	☐ Isocyanates
☐ Biodegradable Sorbents	☐ Pyrophoric	☐ Reactive Sulfide	☐ Reactive Cyanide	☐ Explosives
☐ Temperature Controlled Organic Peroxide		☐ NORM	☐ TENORM	

Section 4 – Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges of the material, either estimated or known.

Concrete	70	to 100 %	Soil	0	to 10 %
Bedrock	0	to 20 %			to ____ %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

Excavation of slab from under industrial building. Rebar if present will be cut flush. Site history was summarized in NYSDEC Fact Sheet (March 2018) that was emailed on July 30, 2019.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes* ☒ No

*If yes, describe: ____

Section 5 – Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules: **Please list applicable waste code(s):**

5.1) Is this waste exempted from RCRA? ☐ Yes, please provide exemption: ____ ☒ No

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes: ____ ☒ No

a) For F006–F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☐ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes: D005 ☐ No

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes: ____ ☒ No

If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.

5.5) EPA Source Code: G44 EPA Form Code: W301

5.6) Waste Code Determination Is Based On: ☒ Generator Knowledge ☐ Analysis ☐ MSDS

Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ☐ WW ☒ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40CFR 268.49? ☐ Yes ☒ No

c) Does this waste contain greater than 50% debris, by volume? ☒ Yes ☐ No
(Debris is greater than 2.5 inches in size.)

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

____

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☐ Yes* ☒ No

*If Yes, please list: ____

For a complete list of UHC constituents, please refer to 40 CFR 268.48

Section 6 – Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☒ No _____

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG)? ☐ UNIV ☐ RG ☒ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☒ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

- ☐ This is a metalworking oil/fluid containing chlorinated paraffins.
- ☐ This is used oil contaminated with chlorofluorocarbons from refrigeration units.
- ☐ This oil contains halogenated solvents. List specific solvents: _____
- ☐ Other, describe: _____

Section 7 – TSCA Information

7.1) What is the concentration of PCBs in the waste? ☐ None ☒ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm

7.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No ☐ Unknown

If you answered "none" or "0-49 ppm"' to 7.1 and "no" to 7.2, please proceed to Section 8.

7.3) Has this waste been processed into a non-liquid form? ☐ Yes* ☐ No

*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm

7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No

7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No

7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 8 – Clean Air Act Information

8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No

8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No

8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes* ☒ No

*If Yes this document serves as notification that this waste contains chemicals _____, _____ required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart _____ of NESHAP/MACT standards.

8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 8.4, please proceed to Section 9.

8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)?

☐ Yes, please provide the SIC/NAICS code: _____ ☐ No

If you answered "no" to questions 8.5, please proceed to Section 9.

8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site?

☐ Yes, please specify: _____ ☐ No

8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB) ≥10 Mg/year? ☐ Yes ☐ No

8.8) Does the waste contain >10% water? ☐ Yes ☐ No

8.9) What is the TAB quantity for your facility? _____ Mg/Year

8.10) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.

Section 9 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.

Generator Signature _____ Printed Name David Rykaczewski (On behalf of Emersub 15, LLC)

Company WSP USA Inc. Title Sr. Technical Manager Date 8/8/19

STANDARD TERMS AND CONDITIONS

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"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

Bulk Disposal Charges

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

RE-APPROVAL NOTICE AND/OR PROFILE CHANGES

Customer Account: 013552

September 25, 2019

ENVIRONMENTAL MANAGER
ONTARIO SPECIALTY CONTRACTING INC
333 GANSON STREET
BUFFALO, NY 14203

Thank you for selecting US Ecology ("USE") as your environmental management partner. In the event that a waste stream has changed, the generator may use this form to amend and/or re-approve the waste profile.

Generator Name: EMERSUB 15, LLC **EPA ID No.:** NYD002228625

Waste Common Name: D005 Soil
Waste Code(s): D005

Approval No.: H190010MDI **Expiration Date:** 8/8/2020
USE Facility Name & ID Number: Michigan Disposal Waste Treatment Plant (MID000724831)

Please select one of the following options:

- ☐ Re-approval with No Profile Change
- ☒ Re-approval with Profile Change
- ☐ Profile Change

Please provide a detailed description below of the changes to the waste stream:

Please parallel for soil and concrete mix. No other Constituents of Concern.

This Re-approval Notice acknowledges the acceptability of waste material(s) into the noted USE facility(s) and ensures each facility has the appropriate permit(s) issued by federal and state regulatory agencies to properly transport, treat, and/or dispose of the waste material(s). Upon signature and submittal of this form, the waste stream will be reviewed by USE. The expiration will be extended for one year, unless you are contacted otherwise.

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize USE to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize USE to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if USE approves the waste described herein, all such wastes that are transported, delivered, or tendered to USE by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the Standard Terms and Conditions associated with the original Waste Profile Form. (The Standard Terms and Conditions are incorporated into the Waste Profile Form as Page 4.)

Generator Signature: _____ Printed Name: David Rykaczewski (on behalf of Emersub 15, LLC

Company: WSP USA Inc. Date: 9/27/19

Please return this form via fax (800) 592-5329 or email customer.service@usecology.com. Questions? Please call (800) 592-5489.

GENERATOR APPROVAL NOTIFICATION

Customer: ONTARIO SPECIALTY CONTRACTING INC

August 14, 2019

ENVIRONMENTAL MANAGER
EMERSON POWER TRANSMISSION
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222

This Generator Approval Notification acknowledges the acceptability of waste material(s) into the noted US Ecology ("USE") facility(s) identified below and ensures that each facility has the appropriate permit(s) issued by federal and state regulatory agencies to properly transport, treat, and/or dispose of the waste material(s).

The Approval(s) listed below are based upon characterization information supplied to USE by the Customer and the Generator (if other than the Customer). The Customer is ultimately responsible for the accuracy and completeness of all such information, whether provided by the Customer or the Generator. The Customer must notify USE immediately upon knowledge of any changes to this information. The Approval and all wastes which are transported, delivered, or tendered to USE under this Approval shall be subject to the Standard Terms and Conditions associated with the original Waste Profile Form. (The Standard Terms and Conditions are incorporated into the Waste Profile Form as Page 4.)

The Approval(s) will expire on the date(s) noted. Any new Approvals obtained from USE on future business will be valid for a period of one (1) year from the date of issuance. Within 60 days of the Approval Expiration Date, you will be notified of the requirements for recertification.

Generator: EMERSON POWER TRANSMISSION

EPA ID No.: NYD002228625

Waste Common Name: D005 Concrete

Waste Code(s): D005

Comments: This waste is being treated to the alternative treatment standards in 268.45. Debris must be >2.5 inches and <3'X3'X3' in size. Debris must be >50% by volume based upon visual inspection. Containers must be less than 75% intact. EPA considers the intentional mixing of non debris waste with debris being treated by this standard to be impermissible dilution. Non debris should be profiled separately. No free liquids.

Approval No.: H190009MDI **Expiration Date:** 07/29/2020

USE Facility Name & ID Number: Michigan Disposal Waste Treatment Plant (MID000724831)

GENERATOR APPROVAL NOTIFICATION

Customer: ONTARIO SPECIALTY CONTRACTING INC August 14, 2019

ENVIRONMENTAL MANAGER
EMERSON POWER TRANSMISSION
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222

This Generator Approval Notification acknowledges the acceptability of waste material(s) into the noted US Ecology ("USE") facility(s) identified below and ensures that each facility has the appropriate permit(s) issued by federal and state regulatory agencies to properly transport, treat, and/or dispose of the waste material(s).

The Approval(s) listed below are based upon characterization information supplied to USE by the Customer and the Generator (if other than the Customer). The Customer is ultimately responsible for the accuracy and completeness of all such information, whether provided by the Customer or the Generator. The Customer must notify USE immediately upon knowledge of any changes to this information. The Approval and all wastes which are transported, delivered, or tendered to USE under this Approval shall be subject to the Standard Terms and Conditions associated with the original Waste Profile Form. (The Standard Terms and Conditions are incorporated into the Waste Profile Form as Page 4.)

The Approval(s) will expire on the date(s) noted. Any new Approvals obtained from USE on future business will be valid for a period of one (1) year from the date of issuance. Within 60 days of the Approval Expiration Date, you will be notified of the requirements for recertification.

Generator: EMERSON POWER TRANSMISSION
EPA ID No.: NYD002228625

Waste Common Name: D005 Soil
Waste Code(s): D005
Comments: Must be >50% Soil

Approval No.: H190010MDI **Expiration Date:** 08/08/2020
USE Facility Name & ID Number: Michigan Disposal Waste Treatment Plant (MID000724831)

DEBRIS WASTE STREAMS FOR MICROENCAPSULATION

HELP US SAVE YOU TIME AND MONEY BY AVOIDING TRUCK DELAYS, ADDED HANDLING FEES OR REJECTED LOADS

You profiled a debris waste stream that will be treated by microencapsulation. Legal treatment of debris by microencapsulation requires compliance with EPA rules (40 CFR 268.2(g) and (h)):

- EPA requires debris must be a solid. Liquids may not be treated by microencapsulation.
- EPA requires debris must be greater than 60 mm.
- EPA requires debris must be one of the following: manufactured objects; plant or animal matter; natural geologic material. If waste does not fit one of these descriptions, it should not be profiled for microencapsulation.
- EPA has specifically defined the following as NOT debris so EPA will not allow to be treated by microencapsulation: lead acid batteries, cadmium batteries; radioactive lead solids; process residuals (such as smelter slag and residues from the treatment of waste, wastewater, sludges, or air emission residues); intact containers of hazardous waste that are not ruptured and that retain at least 75% of their original volume (ruptured containers that retain < 75% of their original volume are debris and may be shipped for microencapsulation if specified in the waste profile).
- EPA does not allow non-debris to be added to debris and treated by microencapsulation even if the portion that is debris is greater than 50% of the volume.
- When debris and non-debris are co-generated inherently combined (but not intentionally mixed), the portion of waste that is debris must be greater than 50% of the volume to be treated by microencapsulation.
- Land Disposal Restriction (LDR) notification forms must indicate that the waste is to be treated to comply with 40 CFR 268.45 (alternative treatment standards for hazardous debris).

Please alert us if your debris includes oxidizers (D001), flammables (D001) or anything potentially reactive (D003) in order to ensure safe and compliant processing of your waste. If you are not sure whether your waste qualifies for microencapsulation, please contact us at 800-592-5489.

I certify that personnel directly responsible for placing waste into containers to be shipped to US Ecology Michigan for microencapsulation treatment have reviewed this form.

WSP USA Inc.		Sr. Technical Manager
Company		**Title**
David Rykaczewski (on behalf of Emersub 15, LLC)		8/9/19
Printed Name	**Signature**	**Date**

Emersub 15, LLC D005 Concrete

Identifier *(approval/tracking number OR generator and waste name)*

US ECOLOGY, BELLEVILLE MICHIGAN
WAYNE DISPOSAL, INC. MID048090633
MICHIGAN DISPOSAL, INC. MID000724831
49350 NORTH I-94 SERVICE DRIVE, BELLEVILLE, MI 48111

APPENDIX

K HAZARDOUS WASTE MANIFESTS, CERTIFICATES OF DISPOSAL, AND WEIGHT TICKETS

WASTE DISPOSAL LOG - F001 HAZARDOUS WASTE

Interim Remedial Measures
Former Emerson Power Transmission Facility - Generator ID No. NYD002228625
Ithaca, NY

Shipment Date	Classification (Haz/Non-Haz)	Waste Description	Profile Number	Container Type (Drum, Dump Truck, etc.)	Load No.	Manifest No.	Transporter	Net Weight (Tons; Scale)
Wayne Disposal, Inc. Site 2 Landfill (Belleville, MI)								
1/3/2019	Haz	AOC 1 Hazardous F001	L180094WDI	Dump Trailer	1	12819676	Page E.T.C Inc	26.32
1/3/2019	Haz	AOC 1 Hazardous F001	L180094WDI	Dump Trailer	2	12819677	Page E.T.C Inc	30.77
1/3/2019	Haz	AOC 1 Hazardous F001	L180094WDI	Dump Trailer	3	12819678	Page E.T.C Inc	27.60
1/4/2019	Haz	AOC 1 Hazardous F001	L180094WDI	Dump Trailer	4	12819664	Page E.T.C Inc	12.86
							Total =	97.55

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

ONTARIO SPECIALTY CONTRACTING INC
333 GANSON STREET
BUFFALO, NY 14203

Receipt ID: 1303301
EQ Account #: 13552
Manifest / BOL: 012819676FLE
Transporter: PAGE
Date: 01/04/2019
Time In: 8:43 AM
Time Out: 9:57 AM

Line	Description Generator				Qty.	Unit
1 - 1	L180094WDI - F001 Soil for Direct Landfill				26.320	TONS
	Hazardous Surcharge Ton				26.320	TONS
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 84,780	**Tare:** 32,140	**Net:** 52,640			
2	e-Manifest Submission Fee				1.000	EACH
				Charge relates to: 012819676FLE		
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 84,780	**Tare:** 32,140	**Net:** 52,640			
3	Fuel Surcharge To Be Determined based on DOE weekly rate				1.000	EACH
				Charge relates to: 012819676FLE - 1		
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 84,780	**Tare:** 32,140	**Net:** 52,640			
4	Transportation per Ton				26.320	TONS
				Charge relates to: 012819676FLE - 1		
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 84,780	**Tare:** 32,140	**Net:** 52,640			
5	Wayne Disposal Host Community Agreement Royalty Fee				26.320	TONS
				Charge relates to: 012819676FLE - 1		
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 84,780	**Tare:** 32,140	**Net:** 52,640			

NO SALVAGING ON PREMISES

TR # 592611

#1

Form Approved. OMB No. 2050-0039

* Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 002 228 625
2. Page 1 of 1
3. Emergency Response Phone: (800) 839-3975
4. Manifest Tracking Number: 012819676 FLE

5. Generator's Name and Mailing Address
EMERSON POWER TRANSMISSION
118 N TIOGA ST SUITE 305
ITHACA, NY 14850
Generator's Phone: (607) 272-7220

Generator's Site Address (if different than mailing address)
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Trichloroethene), 9, PGIII, (F001), ERG #171	001	DT	24 Estimated	T	F001
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. L180084WDI / F001 Soil for Direct Landfill

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF EMERSUBIS, LLC NATE WINSTON
Signature: ON BEHALF EMERSUBIS LLC
Month 01 Day 03 Year 19

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Charlie Ewins
Signature: Charlie Ewins
Month 01 Day 03 Year 19

Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Michael Swan
Signature
Month 1 Day 4 Year 19

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 012819676FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☐ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☒ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

ONTARIO SPECIALTY CONTRACTING INC
333 GANSON STREET
BUFFALO, NY 14203

Receipt ID: 1303303
EQ Account #: 13552
Manifest / BOL: 012819677FLE
Transporter: PAGE
Date: 01/04/2019
Time In: 8:48 AM
Time Out: 10:02 AM

Line	Description Generator					Qty.	Unit
1 - 1	L180094WDI - F001 Soil for Direct Landfill					30.770	TONS
	Hazardous Surcharge Ton					30.770	TONS
	NYD002228625 EMERSON POWER TRANSMISSION						
	Gross: 91,820	**Tare:** 30,280	**Net:** 61,540				
2	e-Manifest Submission Fee					1.000	EACH
				Charge relates to: 012819677FLE			
	NYD002228625 EMERSON POWER TRANSMISSION						
	Gross: 91,820	**Tare:** 30,280	**Net:** 61,540				
3	Fuel Surcharge To Be Determined based on DOE weekly rate					1.000	EACH
				Charge relates to: 012819677FLE - 1			
	NYD002228625 EMERSON POWER TRANSMISSION						
	Gross: 91,820	**Tare:** 30,280	**Net:** 61,540				
4	Transportation per Ton					30.770	TONS
				Charge relates to: 012819677FLE - 1			
	NYD002228625 EMERSON POWER TRANSMISSION						
	Gross: 91,820	**Tare:** 30,280	**Net:** 61,540				
5	Wayne Disposal Host Community Agreement Royalty Fee					30.770	TONS
				Charge relates to: 012819677FLE - 1			
	NYD002228625 EMERSON POWER TRANSMISSION						
	Gross: 91,820	**Tare:** 30,280	**Net:** 61,540				

NO SALVAGING ON PREMISES

Trk 86/090 9380 #2

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 002 228 625
2. Page 1 of: 1
3. Emergency Response Phone: (800) 839-3975
4. Manifest Tracking Number: 012819677 FLE

5. Generator's Name and Mailing Address: EMERSON POWER TRANSMISSION
118 N TIOGA ST SUITE 305
ITHACA, NY 14850
Generator's Phone: (607) 272 7220

Generator's Site Address (if different than mailing address)
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE E T C INC — U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Trichloroethene), 9, PGIII, (F001), ERG #171	001 ~~D003~~	DT	Est 24	T	F001
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. L180094WDI / F001 Soil for Direct Landfill

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF EMERSUB15, LLC NATE WINSTON — Signature: ON BEHALF OF EMERSUB15, LLC — Month 01 Day 03 Year 19

INT'L.
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jeremy Kelly — Signature — Month 1 Day 3 Year 19
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☑ Partial Rejection ☐ Full Rejection
Actual weight 30.77 ok per Alan trevosh 1/9/19 use GB 1/9/19
ok to update TO per Amy Romano MM 1/23/19
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Michael Swem — Signature — Month 1 Day 4 Year 19

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

US ecology

This certificate is to verify the wastes specified on Manifest # 012819677FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☐ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☒ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

ONTARIO SPECIALTY CONTRACTING INC
333 GANSON STREET
BUFFALO, NY 14203

Receipt ID: 1303402
EQ Account #: 13552
Manifest / BOL: 012819678FLE
Transporter: PAGE
Date: 01/07/2019
Time In: 10:57 AM
Time Out: 11:26 AM

Line	Description Generator				Qty.	Unit
1 - 1	L180094WDI - F001 Soil for Direct Landfill				27.600	TONS
	Hazardous Surcharge Ton				27.600	TONS
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 88,460	**Tare:** 33,260	**Net:** 55,200			
2	e-Manifest Submission Fee				1.000	EACH
				Charge relates to: 012819678FLE		
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 88,460	**Tare:** 33,260	**Net:** 55,200			
3	Fuel Surcharge To Be Determined based on DOE weekly rate				1.000	EACH
				Charge relates to: 012819678FLE - 1		
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 88,460	**Tare:** 33,260	**Net:** 55,200			
4	Transportation per Ton				27.600	TONS
				Charge relates to: 012819678FLE - 1		
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 88,460	**Tare:** 33,260	**Net:** 55,200			
5	Wayne Disposal Host Community Agreement Royalty Fee				27.600	TONS
				Charge relates to: 012819678FLE - 1		
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 88,460	**Tare:** 33,260	**Net:** 55,200			

NO SALVAGING ON PREMISES

#3

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYD 002 228 625	1	(800) 839-3975	012819678 FLE

5. Generator's Name and Mailing Address: EMERSON POWER TRANSMISSION
118 N TIOGA ST SUITE 305
ITHACA, NY 14850
Generator's Phone: (607) 272-7220

Generator's Site Address (if different than mailing address): 620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE E.T.C. INC — U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Trichloroethene), 9, PGIII, (F001), ERG #171	01 DI603	DT	24 ESTIMATED	TON	F001
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. L180094WDI / F001 Soil for Direct Landfill

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUBIS, LLC NATE WINSTON — Signature: ON BEHALF OF EMERSUBIS, LLC [signature] — Month 01 Day 03 Year 19

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Robbie Johnson — Signature: [signature] — Month 1 Day 3 Year 19
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☑ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
ok to correct section 10 per Amy Romero DB 1/7/19
actual weight 27.607 ok per Alen T. [illegible] OSC BB 1/10/19
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Grisson — Signature: [signature] — Month 1 Day 7 Year 19

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 012819678FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☐ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☒ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt Preview

ONTARIO SPECIALTY CONTRACTING INC
333 GANSON STREET
BUFFALO, NY 14203

Receipt ID: 1303383
EQ Account #: 13552
Manifest / BOL: 012819664FLE
Transporter: PAGE
Date: 01/07/2019
Time In: 8:18 AM
Time Out: 9:25 AM

Line	Description Generator				Qty.	Unit
1 - 1	L180094WDI - F001 Soil for Direct Landfill				12.860	TONS
	Hazardous Surcharge Ton				12.860	TONS
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 58,260	**Tare:** 32,540	**Net:** 25,720			
2	e-Manifest Submission Fee				1.000	EACH
				Charge relates to: 012819664FLE		
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 58,260	**Tare:** 32,540	**Net:** 25,720			
3	L180094WDI-TONS Additional charge due to load minimum				2.140	TONS
				Charge relates to: 012819664FLE - 1		
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 58,260	**Tare:** 32,540	**Net:** 25,720			
4	Fuel Surcharge To Be Determined based on DOE weekly rate				0.000	EACH
				Charge relates to: 012819664FLE - 1		
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 58,260	**Tare:** 32,540	**Net:** 25,720			
5	Transportation per Ton				12.860	TONS
				Charge relates to: 012819664FLE - 1		
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 58,260	**Tare:** 32,540	**Net:** 25,720			
6	Wayne Disposal Host Community Agreement Royalty Fee				12.860	TONS
				Charge relates to: 012819664FLE - 1		
	NYD002228625 EMERSON POWER TRANSMISSION					
	Gross: 58,260	**Tare:** 32,540	**Net:** 25,720			

NO SALVAGING ON PREMISES

Page-HC0455

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 002 228 625
2. Page 1 of 1
3. Emergency Response Phone: (800) 839-3975
4. Manifest Tracking Number: 012819664 FLE

5. Generator's Name and Mailing Address: EMERSON POWER TRANSMISSION
118 N TIOGA ST SUITE 305
ITHACA, NY 14850
Generator's Phone: (607) 272-7220

Generator's Site Address (if different than mailing address):
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Trichloroethene), 9, PGIII, (F001), ERG #171	001	DT	EST 18	T	F001
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. L180094WDI / F001 Soil for Direct Landfill

TR HC0455
TL 2039

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUBIS LLC NATE WINSTON
Signature: ON BEHALF OF EMERSUBIS, LLC
Month 01 Day 04 Year 19

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John Schieble
Signature:
Month 01 Day 04 Year 19
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 12.867 lb per Alem Tesfaskiw/OSC BB 1/10/19
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132
2.
3.
4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Michael Sneum
Signature:
Month 1 Day 7 Year 19

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

US ecology

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 012819664FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☐ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☒ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

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WASTE DISPOSAL LOG - D005 HAZARDOUS WASTE

Interim Remedial Measures
Former Emerson Power Transmission Facility - Generator ID No. NYD002228625
Ithaca, NY

Shipment Date	Classification (Haz/Non-Haz)	Waste Description	Profile Number	Container Type (Drum, Dump Truck, etc.)	Load No.	Manifest No.	Transporter	Net Weight (Tons; Scale)
Michigan Disposal Waste Treatment Plant (Belleville, MI)								
9/9/2019	Haz	AOC 27 Hazardous D005 Concrete	H190009MDI	Tri Axle	1	013865050FLE	Page E.T.C Inc	20.81
9/9/2019	Haz	AOC 27 Hazardous D005 Concrete	H190009MDI	Tri Axle	2	013865045FLE	Page E.T.C Inc	23.58
9/9/2019	Haz	AOC 27 Hazardous D005 Soil	H190010MDI	Tri Axle	3	013865056FLE	Page E.T.C Inc	25.12
9/9/2019	Haz	AOC 27 Hazardous D005 Soil	H190010MDI	Tri Axle	4	013865051FLE	Page E.T.C Inc	31.02
9/9/2019	Haz	AOC 27 Hazardous D005 Soil	H190010MDI	Tri Axle	5	013865055FLE	Page E.T.C Inc	23.38
9/9/2019	Haz	AOC 27 Hazardous D005 Soil	H190010MDI	Tri Axle	6	013865054FLE	Page E.T.C Inc	24.30
9/9/2019	Haz	AOC 27 Hazardous D005 Soil	H190010MDI	Tri Axle	7	013865053FLE	Page E.T.C Inc	24.50
9/11/2019	Haz	AOC 27 Hazardous D005 Concrete	H190009MDI	Tri Axle	8	013865048FLE	Page E.T.C Inc	16.38
9/13/2019	Haz	AOC 27 Hazardous D005 Concrete	H190009MDI	Tri Axle	9	013865047FLE	Page E.T.C Inc	23.26
9/24/2019	Haz	AOC 27 Hazardous D005 Soil	H190010MDI	Tri Axle	10	013865046FLE	Page E.T.C Inc	32.21
10/9/2019	Haz	AOC 27 Hazardous D005 Soil & Concrete	H190057MDI	Tri Axle	11	014195380FLE	Page E.T.C Inc	13.43
							Total =	257.99

5598 76,620

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 002 228 625
2. Page 1 of: 1
3. Emergency Response Phone: (800) 839-3975
4. Manifest Tracking Number: 013865050 FLE

5. Generator's Name and Mailing Address: EMERSUB 15, LLC
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
Generator's Phone: (412) 375-0282

Generator's Site Address (if different than mailing address):
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE E.T.C.
U.S. EPA ID Number: NYD986967947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMEN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Barium), 9, PGIII, ERG #171	1	DT	20	T	D005
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. H190009MDI / D005 Concrete

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUB15, LLC NATE WINSTON
Signature: ON BEHALF OF EMERSUB15, LLC
Month 9 Day 9 Year 19

GENERATOR

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

INT'L

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jeff Smith
Signature:
Month 9 Day 9 Year 19
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

TRANSPORTER

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H110 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Jonathan Evans
Signature:
Month 9 Day 11 Year 19

DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

US ecology

This certificate is to verify the wastes specified on Manifest # 013865050FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

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213899

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 002 228 625
2. Page 1 of 1
3. Emergency Response Phone: (800) 839-3975
4. Manifest Tracking Number: 013865045 FLE

5. Generator's Name and Mailing Address: EMERSUB 15, LLC c/o WSP USA
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
Generator's Phone: (412) 375-0282

Generator's Site Address (if different than mailing address):
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE E.T.C
U.S. EPA ID Number: NYD986969947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMEN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Barium), 9, PGIII, ERG #171	1	DT	20	T	D005
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. H190009MDI / D005 Concrete

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUB15, LLC NATE WINSTON
Signature: ON BEHALF OF EMERSUB15, LLC [signature]
Month 9 Day 9 Year 19

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Richard Murphy
Signature: [signature]
Month 9 Day 9 Year 19
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 23.587 ok per Alen Trpevski w/OSC BB 9.13.19
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H110			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Jonathon Evans
Signature: [signature]
Month 9 Day 9 Year 19

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

US ecology

This certificate is to verify the wastes specified on Manifest # 013865045FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

23460 7083

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYD 002 228 625	1	(800) 839-3975	013865056 FLE

5. Generator's Name and Mailing Address
EMERSUB 15, LLC, c/o WSP USA
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
Generator's Phone: (412) 375-0282

Generator's Site Address (if different than mailing address)
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE E.T.L — U.S. EPA ID Number: NYD986969947

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL WASTE TREATMEN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
Emersub

U.S. EPA ID Number: 599224
MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Barium), 9, PGIII, ERG #171	1	DT	20	T	D005
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. H190010MDI / D005 Soil

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUB 15, LLC — NATE WINSTON
Signature: ON BEHALF OF EMERSUB 15, LLC — [signature]
Month 9 Day 9 Year 19

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ronald Henshaw — Signature: [signature] — Month 9 Day 9 Year 19
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual 25.12 T Oli per Allen Trpevski w/ OSC BB 9.17.19
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H110			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Grissom — Signature: [signature] — Month 9 Day 10 Year 19

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

US ecology

This certificate is to verify the wastes specified on Manifest # 013865056FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

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103265

[redacted]

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYD 002 228 625	1	(800) 839-3975	013865051 FLE

GENERATOR

5. Generator's Name and Mailing Address
EMERSUB 15, LLC
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
Generator's Phone: (412) 375-0282

Generator's Site Address (if different than mailing address)
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE E.T.C. — U.S. EPA ID Number: NYD986969947

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL WASTE TREATMEN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Barium), 9, PGIII, ERG #171	1	DT	20	T	D005
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. H190010MDI / D005 Soil

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUBIS, LLC — NATE WINSTON
Signature: ON BEHALF OF EMERSUBIS, LLC
Month 9 Day 9 Year 19

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Shayne Hadlock — Signature — Month 9 Day 9 Year 19
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight + 310 of Tolper Alen Tripp
Manifest Reference Number: BB 9.17.19
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H110 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Gillson — Signature — Month 9 Day 10 Year 19

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

US ecology

This certificate is to verify the wastes specified on Manifest # 013865051FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

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79980

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 002 228 625
2. Page 1 of 1
3. Emergency Response Phone: (800) 839-3975
4. Manifest Tracking Number: 013865055 FLE

5. Generator's Name and Mailing Address: EMERSUB 15, LLC
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
Generator's Phone: (412) 375 0282

Generator's Site Address (if different than mailing address):
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE ETC INC
U.S. EPA ID Number: NYD986969947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMEN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Barium), 9, PGIII, ERG #171	1	DT	20	T	D005
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. H190010MDI / D005 Soil

TRK AD1672 TLR 8162

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUB15, LLC NATE WINSTON
Signature: ON BEHALF OF EMERSUB15, LLC
Month 9 Day 9 Year 19

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Deloshe Dolb
Signature:
Month 09 Day 09 Year 19
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight + 23.38 Tons per Area Trpeus
Manifest Reference Number: 339-17-19
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H110 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Antonio Cobb
Signature:
Month 9 Day 10 Year 19

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

US ecology

This certificate is to verify the wastes specified on Manifest # 013865055FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

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6424 79940

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYD 002 228 625	1	(800) 839-3975	6 013865054 FLE

5. Generator's Name and Mailing Address
EMERSUB 15, LLC
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
Generator's Phone: (412) 375-0282

Generator's Site Address (if different than mailing address)
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE E.T.L — Emersub
U.S. EPA ID Number: NYD986969947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL WASTE TREATMEN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Barium), 9, PGIII, ERG #171	1	DT	20	T	D005
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. H190010MDI / D005 Soil

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUB15, LLC — NATE WINSTON
Signature: ON BEHALF OF EMERSUB15, LLC — [signature]
Month 9 Day 9 Year 19

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [signature]
Signature: [signature]
Month 9 Day 9 Year 19
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 24.30T oh per Alen Trpeschi w/ OSC BB 9.17.19
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H110			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Grissom
Signature: [signature]
Month 9 Day 10 Year 19

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

US ecology

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 013865054FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 002 228 625
2. Page 1 of 1
3. Emergency Response Phone: (800) 839-3975
4. Manifest Tracking Number: 013865053 FLE

5. Generator's Name and Mailing Address: EMERSUB 15, LLC C/O WSP USA
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
Generator's Phone: (412) 375-0282

Generator's Site Address (if different than mailing address):
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE ETC
U.S. EPA ID Number: NYD986969947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMEN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Barium), 9, PGIII, ERG #171	1	DT	20	T	D005
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. H190010MDI / D005 Soil

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUB15, LLC NATE WINSTON
Signature: ON BEHALF OF EMERSUB15, LLC [signature]
Month 9 Day 9 Year 19

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JOSEPH BRUNKA
Signature: [signature]
Month 9 Day 9 Year 19
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 24.50 T ok per Alen Trpevski w/ DSC
Manifest Reference Number: BB 9-17-19
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H110			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Grissom
Signature: [signature]
Month 9 Day 10 Year 19

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

US ecology

This certificate is to verify the wastes specified on Manifest # 013865053FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 002 228 625
2. Page 1 of 1
3. Emergency Response Phone: (800) 839-3975
4. Manifest Tracking Number: 013865048 FLE

5. Generator's Name and Mailing Address: EMERSUB 15, LLC c/o USP USA
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
Generator's Phone: ~~(412) 375-0282~~

Generator's Site Address (if different than mailing address):
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE ETC INC
U.S. EPA ID Number: NYD986969947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMEN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Barium), 9, PGIII, ERG #171	1	DT	20	T	D005		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. H190009MDI / D005 Concrete

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUB15, LLC NATE WINSTON
Signature: ON BEHALF OF EMERSUB15, LLC
Month 9 Day 11 Year 19

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Richard Murphy
Signature:
Month 9 Day 11 Year 19
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 16.38T Oliver Allen Trucking Inc 9.17.19
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H110 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Jonathan Evans
Signature:
Month 9 Day 11 Year 19

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

US ecology

This certificate is to verify the wastes specified on Manifest # 013865048FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

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TRK: 346169 WGT: 100160

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 002 228 625
2. Page 1 of: 1
3. Emergency Response Phone: (800) 839-3975
4. Manifest Tracking Number: 013865046 FLE

5. Generator's Name and Mailing Address: EMERSUB 15, LLC
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
Generator's Phone: (412) 375-0282

Generator's Site Address (if different than mailing address):
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE ETL INC
U.S. EPA ID Number: NYD986969947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMEN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Barium), 9, PGIII, ERG #171	1	DT	20	T	D005
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. ~~H190009MDI/D005 Concrete~~
H190010MDI per Alen Trpevski AAB 9/25/19

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUB15, LLC NATE WINSTON
Signature: ON BEHALF OF EMERSUB15, LLC [signature]
Month 9 Day 24 Year 19

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Richard Lance
Signature: [signature]
Month 9 Day 24 Year 19
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 32 217 dl per Alen Trpevski OSC
Manifest Reference Number: BB 9-27-19
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H110 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Jonathan Evans
Signature: [signature]
Month 9 Day 24 Year 19

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

US ecology

This certificate is to verify the wastes specified on Manifest # 013865046FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

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Gross: 8060 Tare: 35640 Time Out: 9:40 213844

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 002 228 625
2. Page 1 of 1
3. Emergency Response Phone: (800) 839-3975
4. Manifest Tracking Number: 013865047 FLE

5. Generator's Name and Mailing Address: EMERSUB 15, LLC
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
Generator's Phone: (412) 375-0282

Generator's Site Address (if different than mailing address):
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE ETC INC — U.S. EPA ID Number: NYD986969947

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMEN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Barium), 9, PGIII, ERG #171	1	DT	20	T	D005
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. H190009MDI / D005 Concrete

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUBIS, LLC NATE WINSTON — Signature: ON BEHALF OF EMERSUBIS, LLC — Month 9 Day 13 Year 19

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Richard Murphy — Signature — Month 9 Day 13 Year 19
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 23.267 as per Alen Tipping Manifest Reference Number: 3B 9.19.19
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H110 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Jonathon Evans — Signature — Month 9 Day 13 Year 19

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

US ecology

This certificate is to verify the wastes specified on Manifest # 013865047FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 002 228 625
2. Page 1 of 1
3. Emergency Response Phone: (800) 839-3975
4. Manifest Tracking Number: 014195380 FLE

5. Generator's Name and Mailing Address: EMERSUB 15, LLC
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
Generator's Phone: (412) 375-0282

Generator's Site Address (if different than mailing address):
620 S. AURORA STREET
ITHACA, NY 14850

6. Transporter 1 Company Name: PAGE ETL. INC.
U.S. EPA ID Number: NYD986969947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMEN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Barium), 9, PGIII, ERG #171	1	~~DR~~ CM	10	T	D005		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. ~~H190057MDL~~ / D005 Soil
H190057MDI

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUB15, LLC NATE WINSTON
Signature: ON BEHALF OF EMERSUB15, LLC
Month 10 Day 09 Year 19

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mike Clark
Signature: Mike Clark
Month 10 Day 09 Year 19
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☒ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 3,435 lbs per Alex Trapuski DSC BB 10-11-19
OK to correct Section 10 per Dave w/ WSP JE 10-9-19
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H110 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Jonathan Evans
Signature:
Month 10 Day 9 Year 19

GENERATOR — TRANSPORTER INT'L — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

US ecology

This certificate is to verify the wastes specified on Manifest # 014195380FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

APPENDIX

L RECYCLING DOCUMENTATION

WASTE DISPOSAL LOG - PAVEMENT RECYCLING

Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, NY

Shipment Date	Classification (Haz/Non-Haz)	Waste Description	Profile Number	Container Type (Drum, Dump Truck, etc.)	Load No.	Manifest No.	Transporter	Net Weight (Tons; Scale)
Brickyard Pit Recycling Facility (Van Buren, NY)								
8/2/2019	Non-Haz	AOC 26 (Asphalt)	N/A	Tri Axle	1	G107323	Riccelli Trucking, Inc.	N/A
8/2/2019	Non-Haz	AOC 26 (Asphalt)	N/A	Tri Axle	2	G107324	Riccelli Trucking, Inc.	N/A
8/2/2019	Non-Haz	AOC 26 (Asphalt)	N/A	Tri Axle	3	G107325	Riccelli Trucking, Inc.	N/A
8/2/2019	Non-Haz	AOC 26 (Asphalt)	N/A	Tri Axle	4	G107326	Riccelli Trucking, Inc.	N/A
8/6/2019	Non-Haz	AOC 34 (Asphalt)	N/A	Tri Axle	5	G107327	Riccelli Trucking, Inc.	N/A
8/6/2019	Non-Haz	75% AOC 26/25% AOC 34 (Asphalt)	N/A	Tri Axle	6	G107328	Riccelli Trucking, Inc.	N/A
8/6/2019	Non-Haz	95% AOC 26/10% AOC 35H + AOC 28 (Asphalt)	N/A	Tri Axle	7	G107329	Riccelli Trucking, Inc.	N/A
8/6/2019	Non-Haz	AOC 26 (Asphalt)	N/A	Tri Axle	8	G107330	Riccelli Trucking, Inc.	N/A
8/6/2019	Non-Haz	AOC 26 (Asphalt)	N/A	Tri Axle	9	G107331	Riccelli Trucking, Inc.	N/A
8/6/2019	Non-Haz	AOC 26 (Asphalt)	N/A	Tri Axle	10	G107332	Riccelli Trucking, Inc.	N/A
8/7/2019	Non-Haz	AOC 26 (Asphalt)	N/A	Tri Axle	11	G107333	Riccelli Trucking, Inc.	N/A
8/7/2019	Non-Haz	AOC 26 (Asphalt)	N/A	Tri Axle	12	G107334	Riccelli Trucking, Inc.	N/A
8/7/2019	Non-Haz	AOC 26 (Asphalt)	N/A	Tri Axle	13	G107335	Riccelli Trucking, Inc.	N/A
8/7/2019	Non-Haz	AOC 26 (Asphalt)	N/A	Tri Axle	14	G107336	Riccelli Trucking, Inc.	N/A
8/7/2019	Non-Haz	AOC 26 (Asphalt)	N/A	Tri Axle	15	G107337	Riccelli Trucking, Inc.	N/A
9/18/2019	Non-Haz	AOC 32 (Asphalt)	N/A	Tri Axle	16	G107338	Riccelli Trucking, Inc.	N/A
9/18/2019	Non-Haz	AOC 32 (Asphalt)	N/A	Tri Axle	17	G107339	Riccelli Trucking, Inc.	N/A

OSC
333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107323

Job No: 31401545.001 / 18022
Location: 620 S. Aurora St, Ithaca, NY
Client/Generator: Emersub 15, LLC
Company/Hauler: Ricceli
License/Truck: AF 92499 / Truck # 329
Scale Ticket/ Manifest No: 001
Truck/Load Type: Triaxle
Destination: Recycler / Brickyard (Syracuse, NY)
Materials: Asphalt
No. Of Loads: (1) 21 TN
Issuer: on behalf of Emersub 15, LLC
Authorized:
Date: 8/2/19
Time Out:
Comments: AOC 26 Asphalt

White: Driver Yellow: Customer Pink: Office

OSC
333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107324

Job No: 31401545.001 / 18022
Location: 620 S Aurora St, Ithaca, NY
Client/Generator: Emersub 15, LLC
Company/Hauler: Ricceli
License/Truck: AG86836 / Truck # 337
Scale Ticket/ Manifest No: 002
Truck/Load Type: Triaxle
Destination: Recycler / Brickyard (Syracuse, NY)
Materials: Asphalt
No. Of Loads: (1) 21 TN Est.
Issuer: on behalf of Emersub 15, LLC
Authorized:
Date: 08/02/19
Time Out:
Comments: AOC 26 Asphalt

OSC

333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107325

Job No: 31401545.001 / 18022
Location: 620 South Aurora St, Ithaca, NY
Client/Generator: Emersub 15, LLC
Company/Hauler: Riccelli
License/Truck: AG86836 / # 337
Scale Ticket/ Manifest No: 003
Truck/Load Type: Triaxle
Destination: Recycler / Brickyard (Syracuse, NY)
Materials: Asphalt
No. Of Loads: (1) 21 TN Est.
Issuer: on behalf of Emersub 15, LLC
Authorized:
Date: 08/02/19
Time Out:
Comments: AOC 26 asphalt

White: Driver Yellow: Customer Pink: Office

OSC

333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107326

Job No: 31401545.001 / 18022
Location: 620 S. Aurora St, Ithaca, NY
Client/Generator: Emersub 15, LLC
Company/Hauler: Riccelli
License/Truck: AF92499 / # 329
Scale Ticket/ Manifest No: 004
Truck/Load Type: Triaxle
Destination: Recycler / Brickyard (Syracuse, NY)
Materials: Asphalt
No. Of Loads: (1) 21 TN est.
Issuer: on behalf of Emersub 15, LLC
Authorized:
Date: 8/2/19
Time Out:
Comments: AOC 26 asphalt

OSC
333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107327

Job No: 3140 1545.001 / 18022

Location: 620 S Aurora St, Ithaca, NY

Client/Generator: Emersub 15, LLC

Company/Hauler: Riccelli

License/Truck: AC 86836 / # 337

Scale Ticket/ Manifest No: 005

Truck/Load Type: Tri axle

Destination: Recycler / Brickyard (Van Buren, NY)

Materials: Asphalt

No. Of Loads: (1) 21 TN est.

Issuer: [signature] on behalf of Emersub 15, LLC

Authorized:

Date: 8/6/19

Time Out:

Comments: AOC 34 Asphalt

White: Driver Yellow: Customer Pink: Office

OSC
333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107328

Job No: 31401545-001 / 18022

Location: 620 S. Aurora St, Ithaca, NY

Client/Generator: Emersub 15, LLC

Company/Hauler: Riccelli

License/Truck: AF 92499 / # 324

Scale Ticket/ Manifest No: 006

Truck/Load Type: Tri axle

Destination: Reagler / Brickyard (Van Buren, NY)

Materials: Asphalt

No. Of Loads: (1) 21 TN est.

Issuer: [signature] on behalf of Emersub 15, LLC

Authorized:

Date: 8/6/19

Time Out:

Comments: AOC 34 Asphalt, AOC 26 Asphalt

White: Driver Yellow: Customer Pink: Office

OSC

333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107328

Job No: 3190.545.001 / 18022

Location: 620 S Aurora St, Ithaca, NY

Client/Generator: Emersub 15, LLC

Company/Hauler: Riccelli

License/Truck: AE86836 / # 337

Truck/Load Type: Triaxle

Destination: Recycler / Brickyard (Van Buren, NY)

Materials: Asphalt

No. Of Loads: (1) 20 TN est.

Issuer: [signature] on behalf of Emersub 15, LLC

Date: 8/6/19

Scale Ticket/ Manifest No: 007

Authorized:

Time Out:

Comments: AOC 26 Asphalt

White: Driver

Yellow: Customer

Pink: Office

OSC
333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

Job No: 31461-5215.001 / 18022

Location: 620 S Aurora St, Ithaca, NY

Client/Generator: Emerson 15, LLC

Company/Hauler: Riccelli

License/Truck: AF92499 / #329

Truck/Load Type: Triaxle

Destination: Recycler / Brickyard (Van Buren, NY)

Materials: Asphalt

No. Of Loads: (1) 21 TN est.

Issuer: [signature] on behalf of Emerson 15, LLC

Date: 8/6/19

Scale Ticket/ Manifest No: 008

Authorized:

Time Out:

Comments: AOC 20 Asphalt

White: Driver Yellow: Customer Pink: Office

OSC
333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107331

Job No: 31401545.001 / 18022

Location: 620 S Aurora St., Ithaca, NY

Client/Generator: Emerson 15, LLC

Company/Hauler: Riccelli

License/Truck: AG86836 / #337

Truck/Load Type: Tri axle

Destination: Recycler / Brickyard (Van Buren, NY)

Materials: Asphalt

No. Of Loads: (1) 21 TN est.

Issuer: [signature] on behalf of Emerson 15, LLC

Date: 8/6/19

Scale Ticket/ Manifest No: 009

Authorized:

Time Out:

Comments: AOC26 Asphalt

White: Driver Yellow: Customer Pink: Office

OSC

333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107332

Job No: 3140545 001 /18022

Location: 620 S Aurora St., Ithaca, NY

Client/Generator: Emersub 15, LLC

Company/Hauler: Riccelli

License/Truck: AF92499 / #329

Truck/Load Type: Tri-axle

Destination: Recycler / Brickyard (Van Buren, NY)

Materials: Asphalt

No. Of Loads: (1) 21 TN est

Issuer: [signature] on behalf of Emersub, 15, LLC

Date: 8/6/19

Scale Ticket/ Manifest No: 010

Authorized:

Time Out:

Comments: AOC26 Asphalt

White: Driver

Yellow: Customer

OSC

333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107383

Job No: 314C154J.001 / 18022

Location: 620 S. Aurora St, Ithaca, NY

Client/Generator: Emersub 15, LLC

Company/Hauler: Riccelli

License/Truck: AC86836 / 337

Truck/Load Type: Triaxle

Destination: Recycler / Brickyard (Van Buren, NY)

Materials: Asphalt

No. Of Loads: (1) 21 Tn est.

Issuer: [signature] on behalf of Emersub 15, LLC

Date: 8/7/19

Scale Ticket/ Manifest No: 011

Authorized:

Time Out:

Comments: AOC 26 Asphalt

White: Driver Yellow: Customer Pink: Office

OSC
333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107334

Job No: 31401545.001 / 18022

Location: 620 S Aurora St, Ithaca, NY

Client/Generator: Emersub 15, LLC

Company/Hauler: Riccelli

License/Truck: AF 92499 / # 329

Truck/Load Type: Triaxle

Destination: Recycler / Brickyard (Van Buren, NY)

Materials: Asphalt

No. Of Loads: (1) 21 TN est.

Issuer: [signature] on behalf of Emersub 15, LLC

Date: 8/7/19

Scale Ticket/ Manifest No: 012

Authorized:

Time Out:

Comments: AOC 2C Asphalt

White: Driver Yellow: Customer Pink: Office

OSC

333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

0107325

Job No: 31401545.001 / 18022

Location: 620 S Aurora St, Ithaca, NY

Client/Generator: Emerson 15, LLC

Company/Hauler: Riccelli

License/Truck: AG88836 / # 337

Scale Ticket/ Manifest No: 013

Truck/Load Type: Triaxle

Destination: Reagler / Backyard (Van Buren, NY)

Materials: Asphalt

No. Of Loads: (1) 24 TN est.

Issuer: [signature] on behalf of Emerson 15, LLC

Authorized:

Date: 8/7/19

Time Out:

Comments: AOC 24 Asphalt

White: Driver

Yellow: Customer

Pink: Office

OSC
333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107336

Job No: 31401545.001 / 18022

Location: 620 S Aurora St, Ithaca, NY

Client/Generator: Emerson 15, LLC

Company/Hauler: Rizzelli

License/Truck: AF92499 / 4329

Scale Ticket/ Manifest No: 014

Truck/Load Type: Triaxle

Destination: Recycler / Backyard (Van Buren, NY)

Materials: Asphalt

No. Of Loads: (1) 21 TN est.

Issuer: [signature] on behalf of Emerson 15, LLC

Authorized:

Date: 8/7/19

Time Out:

Comments: Acc 2 & Asphalt

White: Driver Yellow: Customer Pink: Office

OSC
333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107337

Job No: 3140.5245.001 / 18022

Location: 620 So Avenue St, Tonawanda, NY

Client/Generator: Emerald 15, LLC

Company/Hauler: Rizzelli

License/Truck: AGE6636 / # 337

Truck/Load Type: Tri axle

Destination: Recycler / Brickyard (Van Buren, NY)

Materials: Asphalt

No. Of Loads: (1) 21 Tn est.

Issuer: on behalf of Emerald 15, LLC

Date: 8/7/18

Scale Ticket/ Manifest No: 015

Authorized:

Time Out:

Comments: ACC 2C Asphalt

White: Driver

Yellow: Customer

Pink: OSC

OSC

333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107338

Job No: 18022

Location: Emerson Power Transmission Ithaca NY

Client/Generator: WSP / OSC

Company/Hauler: Ricelli Enterprises

License/Truck: AF 92499

Truck/Load Type: #329 Tandem

Destination: "Brickyard"

Materials: Broken Ashphalt

No. Of Loads: 1

Issuer: MGR

Date: 9/18/19.

Scale Ticket/ Manifest No:

ON BEHALF OF EMERSUB IS, LLC

Authorized:

Time Out:

Comments:

White: Driver Yellow: Customer Pink: Office

OSC

333 Ganson Street • Buffalo, New York 14203
Phone: (716) 856-3333 • FAX: (716) 842-1630

G107339

Job No: 18022

Location: Emerson Power transmission

Client/Generator: WSP / OSC

Company/Hauler: Ricelli Enterprises

License/Truck: AF 92499

Truck/Load Type: #329 Tandem

Destination: "Brickyard"

Materials: Broken Ashphalt

No. Of Loads: 1 of 2

Issuer: MGR.

Date: 9/18/19.

Scale Ticket/ Manifest No:

ON Behalf of Emersub IS LLC

Authorized:

Time Out: 11:40.

Comments:

APPENDIX

M OTHER WASTE DOCUMENTATION

MISCELLANEOUS WASTE DISPOSAL LOG - NON-HAZARDOUS WASTE

Interim Remedial Measures
Former Emerson Power Transmission Facility
Ithaca, NY

Profile Number	Approval Status	Waste Description	Shipping Name	Container Type	No. of Containers	Label	Bill of Lading Number	Shipping Date	Received Date
CH1931223	Approved	Building 18 Wastewater	NON DOT REGULATED MATERIAL	275-gallon Tote	1	Non-Hazardous Waste	1312011	12/9/2019	12/12/2019
CH1931262	Approved	Manhole MH-A6 Purge Water	NON DOT REGULATED MATERIAL	275-gallon Tote	2	Non-Hazardous Waste	1312011	12/9/2019	12/12/2019
CH1931271	Approved	Manhole MH-22 Purge Water	NON DOT REGULATED MATERIAL	275-gallon Tote	1	Non-Hazardous Waste	1312011	12/9/2019	12/12/2019
CH1931289	Approved	Manhole MH-42A/B Purge Water	NON DOT REGULATED MATERIAL	275-gallon Tote	2	Non-Hazardous Waste	1312011	12/9/2019	12/12/2019
CH1931299	Approved	Utility Sump Liquids	NON DOT REGULATED MATERIAL	55-gallon Drum	1	Non-Hazardous Waste	1312011	12/9/2019	12/12/2019
CH1931309	Approved	Decon Water	NON DOT REGULATED MATERIAL	275-gallon Tote	1	Non-Hazardous Waste	1312009	12/9/2019	1/6/2020
CH1931327	Approved	MH-22 Solids	NON DOT REGULATED MATERIAL	55-gallon Drum	1	Non-Hazardous Waste	1312011	12/9/2019	12/12/2019
CH1931356	Approved	Utility Corridor Solids	NON DOT REGULATED MATERIAL	55-gallon Drum	1	Non-Hazardous Waste	1312010	12/9/2019	12/26/2019

Site Address: 620 South Aurora Street
Ithaca, NY 14850

1312009

SC PPW 12/9/2008
WORK ORDER NO 1906096272

DOCUMENT NO.

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID #

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 FRANS VACUUM TRUCK SERVICE VEHICLE ID #

EPA ID # MID 982 792 814 TRANS. 2 PHONE

DESIGNATED FACILITY	SHIPPER
Clean Harbors Environmental Services, Inc.	Emersub 15 LLC
FACILITY EPA ID # OHD000724153	SHIPPER EPA ID # NYD002228625
ADDRESS 2900 Rockefeller Avenue	ADDRESS c/o WSP USA 7000 East Genesse Street Bld D 2nd Floor
CITY Cleveland STATE OH ZIP 44115	CITY Fayetteville STATE NY ZIP 13066

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
1 x tote	TP		A. NON DOT REGULATED MATERIAL, (DECON WATER)	2,500	P
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Emersub 15 LLC
A.CH1931309

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER	ON BEHALF OF EMERSUB15, LLC NATE WINSTON	ON BEHALF OF EMERSUB15 LLC	12/7/19
TRANSPORTER 1	PRINT	SIGN	DATE 12/9/19
TRANSPORTER 2	PRINT	SIGN	DATE 12/9/19
RECEIVED BY	PRINT JOHN MERTH	SIGN	DATE 01-06-20

1

CHI 107

STRAIGHT BILL OF LADING CONTINUATION FORM

PAGE____OF____

DOCUMENT#: BOL1312009

Shipper Emersub

EPA ID# NYD002228625

Transporter#___: Clean Harbors Env Services Inc

EPA ID# MAD039322250

LaKiesha Mason

Name

Signature

Date: 12-12-19

Transporter#___:

EPA ID#:

Name

Signature

Date:

Transporter#___:

EPA ID#:

Name

Signature

Date:

Transporter#___:

EPA ID:

Name

Signature

Date

Site Address: 620 South Aurora Street
Ithaca,NY 14850

SC PPW 12/9/2008

1312010

WORK ORDER NO. 1906096272

DOCUMENT NO.

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID #

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 Frank's Vacuum Truck Service Inc VEHICLE ID #

EPA ID # NJD982772814 TRANS. 2 PHONE (716) 284-2134

DESIGNATED FACILITY			SHIPPER		
Clean Harbors El Dorado LLC			Emersub 15 LLC		
FACILITY EPA ID # ARD069748192			SHIPPER EPA ID # NYD002228625		
ADDRESS 309 American Circle			ADDRESS c/o WSP USA 7000 East Genesse Street Bld D 2nd Floor		
CITY El Dorado	STATE AR	ZIP 71730	CITY Fayetteville	STATE NY	ZIP 13066

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
1 x 55	Dm		A. NON DOT REGULATED MATERIAL, (SEDIMENT)	500	P
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Emersub 15 LLC
A.CH1931356

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER	ON BEHALF OF EMERSUB15, LLC NATE WINSTON	ON BEHALF OF EMERSUB15, LLC	12/9/19
TRANSPORTER 1	W-1 St. Pierre		12/9/19
TRANSPORTER 2	Gary Schwagler		12/13/19
RECEIVED BY	Constance Lovett	Constance Lovett	12/26/19

CHI 107

Site Address 620 South Aurora Street
Ithaca,NY 14850

SC PPW 12 9 2008

72190609627 2

Clean Harbors Environmental Services, Inc

MAD039322250 (781) 792-5000

Clean Harbors El Dorado LLC

ARD069748191

309 American Circle

El Dorado AR 71730

Emersub 15 LLC

NYD002229625

c/o WSP USA 7000 East Genesse Street Bld D 2nd Floor

Fayetteville NY 13066

NON DOT REGULATED MATERIAL (SEDIMENT)

EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Emersub 15 LLC

ACH1931356

STRAIGHT BILL OF LADING CONTINUATION FORM

PAGE 2 OF

DOCUMENT #: BOL 1312010

Shipper Emersub 15 LLC

EPA ID#: NYD00 222 8625

Transporter # 3 Clean Harbors ENV ser

EPA ID MAD039320232

Stephanie Mathers Stephanie Mathers

Name Signature

Date: 12/17/19

Transporter # :

EPA ID#:

Name Signature

Site Address: 620 South Aurora Street
Ithaca,NY 14850

1312011

SC PPW 12/9/2008
WORK ORDER NO 12-1906096272

DOCUMENT NO. **STRAIGHT BILL OF LADING**

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID #

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 FRANK SMALLWOOD TRUCK SERVICE VEHICLE ID #

EPA ID # MD982792864 TRANS. 2 PHONE

DESIGNATED FACILITY			SHIPPER		
Spring Grove Resource Recovery Inc.			Emersub 15 LLC		
FACILITY EPA ID # OHD000816629			SHIPPER EPA ID # NYD002228625		
ADDRESS 4879 Spring Grove Avenue			ADDRESS c/o WSP USA 7000 East Genesse Street Bld D 2nd Floor		
CITY Cincinnati	STATE OH	ZIP 45232	CITY Fayetteville	STATE NY	ZIP 13066

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
2X Tote	TP		A. NON DOT REGULATED MATERIAL, (PURGE WATER)	5,000	P
1X Tote	TP		B. NON DOT REGULATED MATERIAL, (PURGE WATER)	2,500	P
2X Tote	TP		C. NON DOT REGULATED MATERIAL	5,000	P
1X55	DM		D. NON DOT REGULATED MATERIAL, (SEDIMENT, WATER)	400	P
1X55	DM		E. NON DOT REGULATED MATERIAL, (SEDIMENTS, WATER)	500	P
1X tote	TP		F. NON DOT REGULATED MATERIAL, (WATER, SEDIMENT)	2,500	P
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Emersub 15 LLC
A.CH1931262 B.CH1931271 C.CH1931289 D.CH1931299
E.CH1931327 F.CH1931223

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT ON BEHALF OF EMERSUBIS, LLC NATE WINSTON	SIGN ON BEHALF OF EMERSUBIS, LLC	DATE 12/9/19
TRANSPORTER 1	PRINT Walt St Pierre	SIGN	DATE 12/9/19
TRANSPORTER 2	PRINT Dwayne Ano	SIGN	DATE 12-11-19
RECEIVED BY	PRINT Lakiesha Mason	SIGN	DATE 12-12-19

1

CHI 107

WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH1931223

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # ***NYD002228625*** GENERATOR NAME: ***Emersub 15 LLC***

GENERATOR CODE (Assigned by Clean Harbors) ***EM9322*** CITY ***Ithaca*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***14850***

ADDRESS ***620 South Aurora Street*** PHONE: **(716) 866-1623**

CUSTOMER CODE (Assigned by Clean Harbors) ***WS1117*** CUSTOMER NAME: ***WSP USA Inc.***

ADDRESS ***7000 E Genesee St. Building D 2nd Fl*** CITY ***Fayetteville*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***13066***

B. WASTE DESCRIPTION

WASTE DESCRIPTION: ***Building 18 Wastewater***

PROCESS GENERATING WASTE: **Waste generated from Building 18 sewer cleanout**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE

- SOLID WITHOUT FREE LIQUID
- POWDER
- MONOLITHIC SOLID
- [x] LIQUID WITH NO SOLIDS
- LIQUID/SOLID MIXTURE

% FREE LIQUID ***95.00 - 95.00***
% SETTLED SOLID ***5.00 - 5.00***
% TOTAL SUSPENDED SOLID

- SLUDGE
- GAS/AEROSOL

NUMBER OF PHASES/LAYERS

1 [x] 2 3

% BY VOLUME (Approx.)

TOP	***95.00***
MIDDLE	***0.00***
BOTTOM	***5.00***

VISCOSITY (If liquid present)

- [x] 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR

Varies

ODOR

- [x] NONE
- MILD
- STRONG

Describe:

BOILING POINT ºF (ºC)

- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- [x] >= 130 (>54)

MELTING POINT ºF (ºC)

- [x] < 140 (<60)
- 140-200 (60-93)
- > 200 (>93)

TOTAL ORGANIC CARBON

- [x] <= 1%
- 1-9%
- >= 10%

FLASH POINT ºF (ºC)

- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- [x] > 200 (>93)

pH

- <= 2
- 2.1 - 6.9
- 7 (Neutral)
- [x] 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY

- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- [x] 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- > 1.2 (e.g. Methylene Chloride)

ASH

- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- > 20
- [x] Unknown

BTU/LB (MJ/kg)

- [x] < 2,000 (<4.6)
- 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
BARIUM	0.1200000	--	0.1200000	PPM
SEDIMENT	5.0000000	--	5.0000000	%
WATER	95.0000000	--	95.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES [x] NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. ***G44*** SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. ***W113***

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge ☑ Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0				☑
D005	BARIUM	100.0	*0.1200*	*0.1200000*	*PPM*	
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0				☑
D008	LEAD	5.0				☑
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑

	VOLATILE COMPOUNDS	
D018	BENZENE	0.5
D019	CARBON TETRACHLORIDE	0.5
D021	CHLOROBENZENE	100.0
D022	CHLOROFORM	6.0
D028	1,2-DICHLOROETHANE	0.5
D029	1,1-DICHLOROETHYLENE	0.7
D035	METHYL ETHYL KETONE	200.0
D039	TETRACHLOROETHYLENE	0.7
D040	TRICHLOROETHYLENE	0.5
D043	VINYL CHLORIDE	0.2

	SEMI-VOLATILE COMPOUNDS	
D023	o-CRESOL	200.0
D024	m-CRESOL	200.0
D025	p-CRESOL	200.0
D026	CRESOL (TOTAL)	200.0
D027	1,4-DICHLOROBENZENE	7.5
D030	2,4-DINITROTOLUENE	0.13
D032	HEXACHLOROBENZENE	0.13
D033	HEXACHLOROBUTADIENE	0.5
D034	HEXACHLOROETHANE	3.0
D036	NITROBENZENE	2.0
D037	PENTACHLOROPHENOL	100.0
D038	PYRIDINE	5.0
D041	2,4,5-TRICHLOROPHENOL	400.0
D042	2,4,6-TRICHLOROPHENOL	2.0

	PESTICIDES AND HERBICIDES	
D012	ENDRIN	0.02
D013	LINDANE	0.4
D014	METHOXYCHLOR	10.0
D015	TOXAPHENE	0.5
D016	2,4-D	10.0
D017	2,4,5-TP (SILVEX)	1.0
D020	CHLORDANE	0.03
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

☑ NONE
< 1000 PPM
>= 1000 PPM

PCBs

☑ NONE
< 50 PPM
>=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

YES ☑ NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCES | EXPLOSIVE | FUMING | OSHA REGULATED CARCINOGENS
POLYMERIZABLE | RADIOACTIVE | REACTIVE MATERIAL | ☑ NONE OF THE ABOVE

F. REGULATORY STATUS

YES ☑ NO USEPA HAZARDOUS WASTE?

☑ YES NO DO ANY STATE WASTE CODES APPLY?

L

Texas Waste Code ***OUTS1131***

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YES ☑ NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?

LDR CATEGORY: ***Not subject to LDR***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES ☑ NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS A VERY SMALL QUANTITY GENERATOR (VSQG) OR A STATE EQUIVALENT DESIGNATION?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 76.6 KPA (11.1 PSIA)?

YES ☑ NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?

Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

NON DOT REGULATED MATERIAL, (WATER, SEDIMENT)

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ☑ ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY OTHER

☑ **CONTAINERIZED**

1-1 CONTAINERS/SHIPMENT

STORAGE CAPACITY: ***15***

CONTAINER TYPE:

☑ PORTABLE TOTE TANK BOX|CARTON|CASE

CUBIC YARD BOX DRUM

OTHER: DRUM SIZE: ***275***

BULK LIQUID

GALLONS/SHIPMENT: ***0 Min -0 Max*** GAL.

BULK SOLID

SHIPMENT UOM: TON YARD

TONS/YARDS/SHIPMENT: ***0 Min - 0 Max***

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge.I also certify that any samples submitted are representative of the actual waste.If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE
amy.romano@wsp.com			

This waste profile has been submitted using Clean Harbors' electronic signature system.

*40 CFR Sec. 264.12 required notice:

As required by Federal Resource Conservation and Recovery Act regulations found in 40 CFR Part 264.12(b) and all equivalent State hazardous waste regulations, notice is hereby provided that all Clean Harbors facilities that may be used to treat, store, and /or dispose of the hazardous waste described on this waste profile have the appropriate permits and the capacity to manage these wastes.

Please note this profile must be submitted for re-evaluation if there has been a change in the waste generating process or when there have been changes in the chemical composition or physical characteristics of the material.

WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH1931262

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # ***NYD002228625*** GENERATOR NAME: ***Emersub 15 LLC***

GENERATOR CODE (Assigned by Clean Harbors) ***EM9322*** CITY ***Ithaca*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***14850***

ADDRESS ***620 South Aurora Street*** PHONE: **(716) 866-1623**

CUSTOMER CODE (Assigned by Clean Harbors) ***WS1117*** CUSTOMER NAME: ***WSP USA Inc.***

ADDRESS ***7000 E Genesee St. Building D 2nd Fl*** CITY ***Fayetteville*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***13066***

B. WASTE DESCRIPTION

WASTE DESCRIPTION: ***Manhole MH-A6 Purge Water***

PROCESS GENERATING WASTE: **Water generated from manhole MH-A6 Cleanout**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE

- SOLID WITHOUT FREE LIQUID
- POWDER
- MONOLITHIC SOLID
- [x] LIQUID WITH NO SOLIDS
- LIQUID/SOLID MIXTURE

% FREE LIQUID ***95.00 - 95.00***
% SETTLED SOLID ***5.00 - 5.00***
% TOTAL SUSPENDED SOLID

- SLUDGE
- GAS/AEROSOL

NUMBER OF PHASES/LAYERS

1 [x] 2 3

% BY VOLUME (Approx.)

TOP	***95.00***
MIDDLE	***0.00***
BOTTOM	***5.00***

VISCOSITY (If liquid present)

- [x] 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR

Varies

ODOR

- [x] NONE
- MILD
- STRONG

Describe:

BOILING POINT ºF (ºC)

- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- [x] >= 130 (>54)

MELTING POINT ºF (ºC)

- [x] < 140 (<60)
- 140-200 (60-93)
- > 200 (>93)

TOTAL ORGANIC CARBON

- [x] <= 1%
- 1-9%
- >= 10%

FLASH POINT ºF (ºC)

- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- [x] > 200 (>93)

pH

- <= 2
- [x] 2.1 - 6.9
- 7 (Neutral)
- 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY

- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- [x] 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- > 1.2 (e.g. Methylene Chloride)

ASH

- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- > 20
- [x] Unknown

BTU/LB (MJ/kg)

- [x] < 2,000 (<4.6)
- 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
BARIUM	4.6000000	--	4.6000000	PPM
SEDIMENT	5.0000000	--	5.0000000	%
WATER	95.0000000	--	95.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES [x] NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. ***G44*** SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. ***W113***

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge ☑ Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0				☑
D005	BARIUM	100.0	*4.6000*	*4.6000000*	*PPM*	
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0				☑
D008	LEAD	5.0				☑
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑

	VOLATILE COMPOUNDS	
D018	BENZENE	0.5
D019	CARBON TETRACHLORIDE	0.5
D021	CHLOROBENZENE	100.0
D022	CHLOROFORM	6.0
D028	1,2-DICHLOROETHANE	0.5
D029	1,1-DICHLOROETHYLENE	0.7
D035	METHYL ETHYL KETONE	200.0
D039	TETRACHLOROETHYLENE	0.7
D040	TRICHLOROETHYLENE	0.5
D043	VINYL CHLORIDE	0.2

	SEMI-VOLATILE COMPOUNDS	
D023	o-CRESOL	200.0
D024	m-CRESOL	200.0
D025	p-CRESOL	200.0
D026	CRESOL (TOTAL)	200.0
D027	1,4-DICHLOROBENZENE	7.5
D030	2,4-DINITROTOLUENE	0.13
D032	HEXACHLOROBENZENE	0.13
D033	HEXACHLOROBUTADIENE	0.5
D034	HEXACHLOROETHANE	3.0
D036	NITROBENZENE	2.0
D037	PENTACHLOROPHENOL	100.0
D038	PYRIDINE	5.0
D041	2,4,5-TRICHLOROPHENOL	400.0
D042	2,4,6-TRICHLOROPHENOL	2.0

	PESTICIDES AND HERBICIDES	
D012	ENDRIN	0.02
D013	LINDANE	0.4
D014	METHOXYCHLOR	10.0
D015	TOXAPHENE	0.5
D016	2,4-D	10.0
D017	2,4,5-TP (SILVEX)	1.0
D020	CHLORDANE	0.03
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

☑ NONE

< 1000 PPM

>= 1000 PPM

PCBs

☑ NONE

< 50 PPM

>=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

YES ☑ NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCES | EXPLOSIVE | FUMING | OSHA REGULATED CARCINOGENS

POLYMERIZABLE | RADIOACTIVE | REACTIVE MATERIAL | ☑ NONE OF THE ABOVE

F. REGULATORY STATUS

YES ☑ NO USEPA HAZARDOUS WASTE?

YES ☑ NO DO ANY STATE WASTE CODES APPLY?

CR04 MA99

Texas Waste Code ***OUTS1131***

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YES ☑ NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?

LDR CATEGORY: ***Not subject to LDR***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES ☑ NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS A VERY SMALL QUANTITY GENERATOR (VSQG) OR A STATE EQUIVALENT DESIGNATION?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 76.6 KPA (11.1 PSIA)?

YES ☑ NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?

Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

NON DOT REGULATED MATERIAL, (PURGE WATER)

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ☑ ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY OTHER

☑ **CONTAINERIZED**

2-2 CONTAINERS/SHIPMENT

STORAGE CAPACITY: ***15***

CONTAINER TYPE:

☑ PORTABLE TOTE TANK BOX|CARTON|CASE

CUBIC YARD BOX DRUM

OTHER: DRUM SIZE: ***275***

BULK LIQUID

GALLONS/SHIPMENT: ***0 Min -0 Max*** GAL.

BULK SOLID

SHIPMENT UOM: TON YARD

TONS/YARDS/SHIPMENT: ***0 Min - 0 Max***

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge.I also certify that any samples submitted are representative of the actual waste.If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE
amy.romano@wsp.com			

This waste profile has been submitted using Clean Harbors' electronic signature system.

*40 CFR Sec. 264.12 required notice:

As required by Federal Resource Conservation and Recovery Act regulations found in 40 CFR Part 264.12(b) and all equivalent State hazardous waste regulations, notice is hereby provided that all Clean Harbors facilities that may be used to treat, store, and /or dispose of the hazardous waste described on this waste profile have the appropriate permits and the capacity to manage these wastes.

Please note this profile must be submitted for re-evaluation if there has been a change in the waste generating process or when there have been changes in the chemical composition or physical characteristics of the material.

WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH1931271

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # ***NYD002228625*** GENERATOR NAME: ***Emersub 15 LLC***

GENERATOR CODE (Assigned by Clean Harbors) ***EM9322*** CITY ***Ithaca*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***14850***

ADDRESS ***620 South Aurora Street*** PHONE: **(716) 866-1623**

CUSTOMER CODE (Assigned by Clean Harbors) ***WS1117*** CUSTOMER NAME: ***WSP USA Inc.***

ADDRESS ***7000 E Genesee St. Building D 2nd Fl*** CITY ***Fayetteville*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***13066***

B. WASTE DESCRIPTION

WASTE DESCRIPTION: ***Manhole MH-22 Purge Water***

PROCESS GENERATING WASTE: **Water generated from manhole MH-22 Cleanout**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE

- SOLID WITHOUT FREE LIQUID
- POWDER
- MONOLITHIC SOLID
- [x] LIQUID WITH NO SOLIDS
- LIQUID/SOLID MIXTURE

% FREE LIQUID ***95.00 - 95.00***
% SETTLED SOLID ***5.00 - 5.00***
% TOTAL SUSPENDED SOLID

- SLUDGE
- GAS/AEROSOL

NUMBER OF PHASES/LAYERS

1 [x] 2 3

% BY VOLUME (Approx.)

TOP	***95.00***
MIDDLE	***0.00***
BOTTOM	***5.00***

VISCOSITY (If liquid present)

- [x] 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR

Varies

ODOR

- [x] NONE
- MILD
- STRONG

Describe:

BOILING POINT ºF (ºC)

- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- [x] >= 130 (>54)

MELTING POINT ºF (ºC)

- [x] < 140 (<60)
- 140-200 (60-93)
- > 200 (>93)

TOTAL ORGANIC CARBON

- [x] <= 1%
- 1-9%
- >= 10%

FLASH POINT ºF (ºC)

- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- [x] > 200 (>93)

pH

- <= 2
- 2.1 - 6.9
- 7 (Neutral)
- [x] 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY

- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- [x] 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- > 1.2 (e.g. Methylene Chloride)

ASH

- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- > 20
- [x] Unknown

BTU/LB (MJ/kg)

- [x] < 2,000 (<4.6)
- 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
BARIUM	4.6000000	--	4.6000000	PPM
SEDIMENT	5.0000000	--	5.0000000	%
WATER	95.0000000	--	95.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES [x] NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. ***G44*** SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. ***W113***

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge ☑ Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0				☑
D005	BARIUM	100.0	*1.6000*	*1.6000000*	*PPM*	
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0				☑
D008	LEAD	5.0				☑
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑

	VOLATILE COMPOUNDS	
D018	BENZENE	0.5
D019	CARBON TETRACHLORIDE	0.5
D021	CHLOROBENZENE	100.0
D022	CHLOROFORM	6.0
D028	1,2-DICHLOROETHANE	0.5
D029	1,1-DICHLOROETHYLENE	0.7
D035	METHYL ETHYL KETONE	200.0
D039	TETRACHLOROETHYLENE	0.7
D040	TRICHLOROETHYLENE	0.5
D043	VINYL CHLORIDE	0.2

	SEMI-VOLATILE COMPOUNDS	
D023	o-CRESOL	200.0
D024	m-CRESOL	200.0
D025	p-CRESOL	200.0
D026	CRESOL (TOTAL)	200.0
D027	1,4-DICHLOROBENZENE	7.5
D030	2,4-DINITROTOLUENE	0.13
D032	HEXACHLOROBENZENE	0.13
D033	HEXACHLOROBUTADIENE	0.5
D034	HEXACHLOROETHANE	3.0
D036	NITROBENZENE	2.0
D037	PENTACHLOROPHENOL	100.0
D038	PYRIDINE	5.0
D041	2,4,5-TRICHLOROPHENOL	400.0
D042	2,4,6-TRICHLOROPHENOL	2.0

	PESTICIDES AND HERBICIDES	
D012	ENDRIN	0.02
D013	LINDANE	0.4
D014	METHOXYCHLOR	10.0
D015	TOXAPHENE	0.5
D016	2,4-D	10.0
D017	2,4,5-TP (SILVEX)	1.0
D020	CHLORDANE	0.03
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

☑ NONE
< 1000 PPM
>= 1000 PPM

PCBs

☑ NONE
< 50 PPM
>=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

YES ☑ NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCES | EXPLOSIVE | FUMING | OSHA REGULATED CARCINOGENS
POLYMERIZABLE | RADIOACTIVE | REACTIVE MATERIAL | ☑ NONE OF THE ABOVE

F. REGULATORY STATUS

YES ☑ NO USEPA HAZARDOUS WASTE?

YES ☑ NO DO ANY STATE WASTE CODES APPLY?

Texas Waste Code ***outs1131***

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YES ☑ NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?

LDR CATEGORY: ***Not subject to LDR***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES ☑ NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS A VERY SMALL QUANTITY GENERATOR (VSQG) OR A STATE EQUIVALENT DESIGNATION?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 76.6 KPA (11.1 PSIA)?

YES ☑ NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?

Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

NON DOT REGULATED MATERIAL, (PURGE WATER)

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ☑ ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY OTHER

☑ **CONTAINERIZED**

1-1 CONTAINERS/SHIPMENT

STORAGE CAPACITY: ***15***

CONTAINER TYPE:

☑ PORTABLE TOTE TANK BOX|CARTON|CASE

CUBIC YARD BOX DRUM

OTHER:

DRUM SIZE: ***275***

BULK LIQUID

GALLONS/SHIPMENT: ***0 Min -0 Max*** GAL.

BULK SOLID

SHIPMENT UOM: TON YARD

TONS/YARDS/SHIPMENT: ***0 Min - 0 Max***

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge.I also certify that any samples submitted are representative of the actual waste.If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE
amy.romano@wsp.com			

This waste profile has been submitted using Clean Harbors' electronic signature system.

*40 CFR Sec. 264.12 required notice:

As required by Federal Resource Conservation and Recovery Act regulations found in 40 CFR Part 264.12(b) and all equivalent State hazardous waste regulations, notice is hereby provided that all Clean Harbors facilities that may be used to treat, store, and /or dispose of the hazardous waste described on this waste profile have the appropriate permits and the capacity to manage these wastes.

Please note this profile must be submitted for re-evaluation if there has been a change in the waste generating process or when there have been changes in the chemical composition or physical characteristics of the material.

WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH1931289

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # ***NYD002228625*** GENERATOR NAME: ***Emersub 15 LLC***

GENERATOR CODE (Assigned by Clean Harbors) ***EM9322*** CITY ***Ithaca*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***14850***

ADDRESS ***620 South Aurora Street*** PHONE: **(716) 866-1623**

CUSTOMER CODE (Assigned by Clean Harbors) ***WS1117*** CUSTOMER NAME: ***WSP USA Inc.***

ADDRESS ***7000 E Genesee St. Building D 2nd Fl*** CITY ***Fayetteville*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***13066***

B. WASTE DESCRIPTION

WASTE DESCRIPTION: ***Manhole MH-42A/B Purge Water***

PROCESS GENERATING WASTE: **Water generated from manholes MH-42A and 42B Cleanout**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE

- SOLID WITHOUT FREE LIQUID
- POWDER
- MONOLITHIC SOLID
- [x] LIQUID WITH NO SOLIDS
- LIQUID/SOLID MIXTURE

% FREE LIQUID ***95.00 - 95.00***
% SETTLED SOLID ***5.00 - 5.00***
% TOTAL SUSPENDED SOLID

- SLUDGE
- GAS/AEROSOL

NUMBER OF PHASES/LAYERS

1 [x] 2 3

% BY VOLUME (Approx.)

TOP	***95.00***
MIDDLE	***0.00***
BOTTOM	***5.00***

VISCOSITY (If liquid present)

- [x] 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR

Varies

ODOR

- [x] NONE
- MILD
- STRONG

Describe:

BOILING POINT ºF (ºC)

- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- [x] >= 130 (>54)

MELTING POINT ºF (ºC)

- [x] < 140 (<60)
- 140-200 (60-93)
- > 200 (>93)

TOTAL ORGANIC CARBON

- [x] <= 1%
- 1-9%
- >= 10%

FLASH POINT ºF (ºC)

- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- [x] > 200 (>93)

pH

- <= 2
- 2.1 - 6.9
- 7 (Neutral)
- [x] 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY

- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- [x] 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- > 1.2 (e.g. Methylene Chloride)

ASH

- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- > 20
- [x] Unknown

BTU/LB (MJ/kg)

- [x] < 2,000 (<4.6)
- 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
CHROMIUM	0.0100000	--	0.0100000	PPM
SEDIMENT	5.0000000	--	5.0000000	%
WATER	95.0000000	--	95.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES [x] NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. ***G44*** SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. ***W113***

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge ☑ Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0				☑
D005	BARIUM	100.0				☑
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0	*0.0100*	*0.0100000*	*PPM*	
D008	LEAD	5.0				☑
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑

	VOLATILE COMPOUNDS	
D018	BENZENE	0.5
D019	CARBON TETRACHLORIDE	0.5
D021	CHLOROBENZENE	100.0
D022	CHLOROFORM	6.0
D028	1,2-DICHLOROETHANE	0.5
D029	1,1-DICHLOROETHYLENE	0.7
D035	METHYL ETHYL KETONE	200.0
D039	TETRACHLOROETHYLENE	0.7
D040	TRICHLOROETHYLENE	0.5
D043	VINYL CHLORIDE	0.2

	SEMI-VOLATILE COMPOUNDS	
D023	o-CRESOL	200.0
D024	m-CRESOL	200.0
D025	p-CRESOL	200.0
D026	CRESOL (TOTAL)	200.0
D027	1,4-DICHLOROBENZENE	7.5
D030	2,4-DINITROTOLUENE	0.13
D032	HEXACHLOROBENZENE	0.13
D033	HEXACHLOROBUTADIENE	0.5
D034	HEXACHLOROETHANE	3.0
D036	NITROBENZENE	2.0
D037	PENTACHLOROPHENOL	100.0
D038	PYRIDINE	5.0
D041	2,4,5-TRICHLOROPHENOL	400.0
D042	2,4,6-TRICHLOROPHENOL	2.0

	PESTICIDES AND HERBICIDES	
D012	ENDRIN	0.02
D013	LINDANE	0.4
D014	METHOXYCHLOR	10.0
D015	TOXAPHENE	0.5
D016	2,4-D	10.0
D017	2,4,5-TP (SILVEX)	1.0
D020	CHLORDANE	0.03
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

☑ NONE

< 1000 PPM

>= 1000 PPM

PCBs

☑ NONE

< 50 PPM

>=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

YES ☑ NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCES | EXPLOSIVE | FUMING | OSHA REGULATED CARCINOGENS

POLYMERIZABLE | RADIOACTIVE | REACTIVE MATERIAL | ☑ NONE OF THE ABOVE

F. REGULATORY STATUS

YES ☑ NO USEPA HAZARDOUS WASTE?

YES ☑ NO DO ANY STATE WASTE CODES APPLY?

Texas Waste Code ***OUTS1131***

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YES ☑ NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?

LDR CATEGORY: ***Not subject to LDR***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES ☑ NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS A VERY SMALL QUANTITY GENERATOR (VSQG) OR A STATE EQUIVALENT DESIGNATION?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 76.6 KPA (11.1 PSIA)?

YES ☑ NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?

Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

NON DOT REGULATED MATERIAL

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ☑ ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY OTHER

☑ **CONTAINERIZED**

2-2 CONTAINERS/SHIPMENT

STORAGE CAPACITY: ***15***

CONTAINER TYPE:

☑ PORTABLE TOTE TANK BOX|CARTON|CASE

CUBIC YARD BOX DRUM

OTHER:

DRUM SIZE: ***275***

BULK LIQUID

GALLONS/SHIPMENT: ***0 Min -0 Max*** GAL.

BULK SOLID

SHIPMENT UOM: TON YARD

TONS/YARDS/SHIPMENT: ***0 Min - 0 Max***

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge.I also certify that any samples submitted are representative of the actual waste.If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE
amy.romano@wsp.com			

This waste profile has been submitted using Clean Harbors' electronic signature system.

*40 CFR Sec. 264.12 required notice:

As required by Federal Resource Conservation and Recovery Act regulations found in 40 CFR Part 264.12(b) and all equivalent State hazardous waste regulations, notice is hereby provided that all Clean Harbors facilities that may be used to treat, store, and /or dispose of the hazardous waste described on this waste profile have the appropriate permits and the capacity to manage these wastes.

Please note this profile must be submitted for re-evaluation if there has been a change in the waste generating process or when there have been changes in the chemical composition or physical characteristics of the material.

WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH1931299

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # ***NYD002228625*** GENERATOR NAME: ***Emersub 15 LLC***

GENERATOR CODE (Assigned by Clean Harbors) ***EM9322*** CITY ***Ithaca*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***14850***

ADDRESS ***620 South Aurora Street*** PHONE: **(716) 866-1623**

CUSTOMER CODE (Assigned by Clean Harbors) ***WS1117*** CUSTOMER NAME: ***WSP USA Inc.***

ADDRESS ***7000 E Genesee St. Building D 2nd Fl*** CITY ***Fayetteville*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***13066***

B. WASTE DESCRIPTION

WASTE DESCRIPTION: ***Utility Sump Liquids***

PROCESS GENERATING WASTE: **Oily liquid from utility corridor sump pit**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE

- SOLID WITHOUT FREE LIQUID
- POWDER
- MONOLITHIC SOLID
- [x] LIQUID WITH NO SOLIDS
- LIQUID/SOLID MIXTURE

% FREE LIQUID ***95.00 - 95.00***
% SETTLED SOLID ***5.00 - 5.00***
% TOTAL SUSPENDED SOLID

- SLUDGE
- GAS/AEROSOL

NUMBER OF PHASES/LAYERS

1 [x] 2 3

% BY VOLUME (Approx.)

TOP	***95.00***
MIDDLE	***0.00***
BOTTOM	***5.00***

VISCOSITY (If liquid present)

- [x] 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR

Varies

ODOR

- [x] NONE
- MILD
- STRONG

Describe:

BOILING POINT ºF (ºC)

- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- [x] >= 130 (>54)

MELTING POINT ºF (ºC)

- [x] < 140 (<60)
- 140-200 (60-93)
- > 200 (>93)

TOTAL ORGANIC CARBON

- [x] <= 1%
- 1-9%
- >= 10%

FLASH POINT ºF (ºC)

- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- [x] > 200 (>93)

pH

- <= 2
- 2.1 - 6.9
- 7 (Neutral)
- [x] 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY

- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- 1.0 (e.g. Water)
- [x] 1.0-1.2 (e.g. Antifreeze)
- > 1.2 (e.g. Methylene Chloride)

ASH

- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- > 20
- [x] Unknown

BTU/LB (MJ/kg)

- [x] < 2,000 (<4.6)
- 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
AROCLOR 1254 (PCB)	0.1600000	--	0.1600000	PPM
BARIUM (TCLP)	0.1600000	--	0.1600000	PPM
SEDIMENT	5.0000000	--	5.0000000	%
WATER	95.0000000	--	95.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES [x] NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. ***G44*** SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. ***W113***

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge ☑ Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0				☑
D005	BARIUM	100.0	*0.1600*	*0.1600000*	*PPM*	
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0				☑
D008	LEAD	5.0				☑
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑

	VOLATILE COMPOUNDS	
D018	BENZENE	0.5
D019	CARBON TETRACHLORIDE	0.5
D021	CHLOROBENZENE	100.0
D022	CHLOROFORM	6.0
D028	1,2-DICHLOROETHANE	0.5
D029	1,1-DICHLOROETHYLENE	0.7
D035	METHYL ETHYL KETONE	200.0
D039	TETRACHLOROETHYLENE	0.7
D040	TRICHLOROETHYLENE	0.5
D043	VINYL CHLORIDE	0.2

	SEMI-VOLATILE COMPOUNDS	
D023	o-CRESOL	200.0
D024	m-CRESOL	200.0
D025	p-CRESOL	200.0
D026	CRESOL (TOTAL)	200.0
D027	1,4-DICHLOROBENZENE	7.5
D030	2,4-DINITROTOLUENE	0.13
D032	HEXACHLOROBENZENE	0.13
D033	HEXACHLOROBUTADIENE	0.5
D034	HEXACHLOROETHANE	3.0
D036	NITROBENZENE	2.0
D037	PENTACHLOROPHENOL	100.0
D038	PYRIDINE	5.0
D041	2,4,5-TRICHLOROPHENOL	400.0
D042	2,4,6-TRICHLOROPHENOL	2.0

	PESTICIDES AND HERBICIDES	
D012	ENDRIN	0.02
D013	LINDANE	0.4
D014	METHOXYCHLOR	10.0
D015	TOXAPHENE	0.5
D016	2,4-D	10.0
D017	2,4,5-TP (SILVEX)	1.0
D020	CHLORDANE	0.03
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

NONE
☑ < 1000 PPM
>= 1000 PPM

PCBs

NONE
☑ < 50 PPM
>=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

YES ☑ NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCES | EXPLOSIVE | FUMING | OSHA REGULATED CARCINOGENS
POLYMERIZABLE | RADIOACTIVE | REACTIVE MATERIAL | ☑ NONE OF THE ABOVE

F. REGULATORY STATUS

YES ☑ NO USEPA HAZARDOUS WASTE?

YES ☑ NO DO ANY STATE WASTE CODES APPLY?

Texas Waste Code ***outs1131***

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YES ☑ NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?

LDR CATEGORY: ***Not subject to LDR***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES ☑ NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS A VERY SMALL QUANTITY GENERATOR (VSQG) OR A STATE EQUIVALENT DESIGNATION?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 76.6 KPA (11.1 PSIA)?

YES ☑ NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?

Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

NON DOT REGULATED MATERIAL, (SEDIMENT, WATER)

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ☑ ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY OTHER

☑ **CONTAINERIZED**

1-1 CONTAINERS/SHIPMENT

STORAGE CAPACITY: ***15***

CONTAINER TYPE:

PORTABLE TOTE TANK BOX|CARTON|CASE

CUBIC YARD BOX ☑ DRUM

OTHER:

DRUM SIZE: ***55***

BULK LIQUID

GALLONS/SHIPMENT: ***0 Min -0 Max*** GAL.

BULK SOLID

SHIPMENT UOM: TON YARD

TONS/YARDS/SHIPMENT: ***0 Min - 0 Max***

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge.I also certify that any samples submitted are representative of the actual waste.If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE
amy.romano@wsp.com			

This waste profile has been submitted using Clean Harbors' electronic signature system.

*40 CFR Sec. 264.12 required notice:

As required by Federal Resource Conservation and Recovery Act regulations found in 40 CFR Part 264.12(b) and all equivalent State hazardous waste regulations, notice is hereby provided that all Clean Harbors facilities that may be used to treat, store, and /or dispose of the hazardous waste described on this waste profile have the appropriate permits and the capacity to manage these wastes.

Please note this profile must be submitted for re-evaluation if there has been a change in the waste generating process or when there have been changes in the chemical composition or physical characteristics of the material.

WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH1931309

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # ***NYD002228625*** GENERATOR NAME: ***Emersub 15 LLC***

GENERATOR CODE (Assigned by Clean Harbors) ***EM9322*** CITY ***Ithaca*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***14850***

ADDRESS ***620 South Aurora Street*** PHONE: **(716) 866-1623**

CUSTOMER CODE (Assigned by Clean Harbors) ***WS1117*** CUSTOMER NAME: ***WSP USA Inc.***

ADDRESS ***7000 E Genesee St. Building D 2nd Fl*** CITY ***Fayetteville*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***13066***

B. WASTE DESCRIPTION

WASTE DESCRIPTION: ***Decon Water***

PROCESS GENERATING WASTE: **Decon water and floor sweepings from AOC 27 waste**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE

- SOLID WITHOUT FREE LIQUID
- POWDER
- MONOLITHIC SOLID
- [x] LIQUID WITH NO SOLIDS
- LIQUID/SOLID MIXTURE

% FREE LIQUID ***95.00 - 95.00***
% SETTLED SOLID ***5.00 - 5.00***
% TOTAL SUSPENDED SOLID

- SLUDGE
- GAS/AEROSOL

NUMBER OF PHASES/LAYERS

1 [x] 2 3

% BY VOLUME (Approx.)

TOP	***95.00***
MIDDLE	***0.00***
BOTTOM	***5.00***

VISCOSITY (If liquid present)

- [x] 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR

Varies

ODOR

- [x] NONE
- MILD
- STRONG

Describe:

BOILING POINT ºF (ºC)

- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- [x] >= 130 (>54)

MELTING POINT ºF (ºC)

- [x] < 140 (<60)
- 140-200 (60-93)
- > 200 (>93)

TOTAL ORGANIC CARBON

- [x] <= 1%
- 1-9%
- >= 10%

FLASH POINT ºF (ºC)

- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- [x] > 200 (>93)

pH

- <= 2
- 2.1 - 6.9
- 7 (Neutral)
- [x] 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY

- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- [x] 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- > 1.2 (e.g. Methylene Chloride)

ASH

- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- > 20
- [x] Unknown

BTU/LB (MJ/kg)

- [x] < 2,000 (<4.6)
- 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
ARSENIC	0.0170000	--	0.0170000	PPM
BARIUM	0.0560000	--	0.0560000	PPM
CHROMIUM	0.0310000	--	0.0310000	PPM
LEAD	0.0530000	--	0.0530000	PPM
SEDIMENT	5.0000000	--	5.0000000	%
WATER	95.0000000	--	95.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES [x] NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. ***G44*** SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. ***W113***

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge ☑ Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0	*0.0170*	*0.0170000*	*PPM*	
D005	BARIUM	100.0	*0.5600*	*0.5600000*	*PPM*	
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0	*0.0310*	*0.0310000*	*PPM*	
D008	LEAD	5.0	*0.0530*	*0.0530000*	*PPM*	
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑

	VOLATILE COMPOUNDS	
D018	BENZENE	0.5
D019	CARBON TETRACHLORIDE	0.5
D021	CHLOROBENZENE	100.0
D022	CHLOROFORM	6.0
D028	1,2-DICHLOROETHANE	0.5
D029	1,1-DICHLOROETHYLENE	0.7
D035	METHYL ETHYL KETONE	200.0
D039	TETRACHLOROETHYLENE	0.7
D040	TRICHLOROETHYLENE	0.5
D043	VINYL CHLORIDE	0.2

	SEMI-VOLATILE COMPOUNDS	
D023	o-CRESOL	200.0
D024	m-CRESOL	200.0
D025	p-CRESOL	200.0
D026	CRESOL (TOTAL)	200.0
D027	1,4-DICHLOROBENZENE	7.5
D030	2,4-DINITROTOLUENE	0.13
D032	HEXACHLOROBENZENE	0.13
D033	HEXACHLOROBUTADIENE	0.5
D034	HEXACHLOROETHANE	3.0
D036	NITROBENZENE	2.0
D037	PENTACHLOROPHENOL	100.0
D038	PYRIDINE	5.0
D041	2,4,5-TRICHLOROPHENOL	400.0
D042	2,4,6-TRICHLOROPHENOL	2.0

	PESTICIDES AND HERBICIDES	
D012	ENDRIN	0.02
D013	LINDANE	0.4
D014	METHOXYCHLOR	10.0
D015	TOXAPHENE	0.5
D016	2,4-D	10.0
D017	2,4,5-TP (SILVEX)	1.0
D020	CHLORDANE	0.03
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

☑ NONE

< 1000 PPM

>= 1000 PPM

PCBs

☑ NONE

< 50 PPM

>=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

YES ☑ NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCES	EXPLOSIVE	FUMING	☑ OSHA REGULATED CARCINOGENS
POLYMERIZABLE	RADIOACTIVE	REACTIVE MATERIAL	NONE OF THE ABOVE

F. REGULATORY STATUS

YES ☑ NO USEPA HAZARDOUS WASTE?

YES ☑ NO DO ANY STATE WASTE CODES APPLY?

Texas Waste Code ***outs1011***

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YES ☑ NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?

LDR CATEGORY: ***Not subject to LDR***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES ☑ NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS A VERY SMALL QUANTITY GENERATOR (VSQG) OR A STATE EQUIVALENT DESIGNATION?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 76.6 KPA (11.1 PSIA)?

YES ☑ NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?

Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

NON DOT REGULATED MATERIAL, (DECON WATER)

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ☑ ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY OTHER

☑ **CONTAINERIZED**

1-1 CONTAINERS/SHIPMENT

STORAGE CAPACITY: ***15***

CONTAINER TYPE:

☑ PORTABLE TOTE TANK BOX|CARTON|CASE

CUBIC YARD BOX DRUM

OTHER:

DRUM SIZE: ***275***

BULK LIQUID

GALLONS/SHIPMENT: ***0 Min -0 Max*** GAL.

BULK SOLID

SHIPMENT UOM: TON YARD

TONS/YARDS/SHIPMENT: ***0 Min - 0 Max***

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge.I also certify that any samples submitted are representative of the actual waste.If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE
amy.romano@wsp.com			

This waste profile has been submitted using Clean Harbors' electronic signature system.

*40 CFR Sec. 264.12 required notice:

As required by Federal Resource Conservation and Recovery Act regulations found in 40 CFR Part 264.12(b) and all equivalent State hazardous waste regulations, notice is hereby provided that all Clean Harbors facilities that may be used to treat, store, and /or dispose of the hazardous waste described on this waste profile have the appropriate permits and the capacity to manage these wastes.

Please note this profile must be submitted for re-evaluation if there has been a change in the waste generating process or when there have been changes in the chemical composition or physical characteristics of the material.

WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH1931327

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # ***NYD002228625*** GENERATOR NAME: ***Emersub 15 LLC***

GENERATOR CODE (Assigned by Clean Harbors) ***EM9322*** CITY ***Ithaca*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***14850***

ADDRESS ***620 South Aurora Street*** PHONE: **(716) 866-1623**

CUSTOMER CODE (Assigned by Clean Harbors) ***WS1117*** CUSTOMER NAME: ***WSP USA Inc.***

ADDRESS ***7000 E Genesee St. Building D 2nd Fl*** CITY ***Fayetteville*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***13066***

B. WASTE DESCRIPTION

WASTE DESCRIPTION: ***MH-22 Solids***

PROCESS GENERATING WASTE: **Solids generated from MH-22 Cleanout**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE

- SOLID WITHOUT FREE LIQUID
- POWDER
- MONOLITHIC SOLID
- [x] LIQUID WITH NO SOLIDS
- LIQUID/SOLID MIXTURE

% FREE LIQUID ***5.00 - 5.00***
% SETTLED SOLID
% TOTAL SUSPENDED SOLID ***95.00 - 95.00***

- SLUDGE
- GAS/AEROSOL

NUMBER OF PHASES/LAYERS

1 [x] 2 3

% BY VOLUME (Approx.)

TOP	***5.00***
MIDDLE	***0.00***
BOTTOM	***95.00***

VISCOSITY (If liquid present)

- 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- [x] > 10,000

COLOR

Varies

ODOR

- [x] NONE
- MILD
- STRONG

Describe:

BOILING POINT ºF (ºC)

- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- [x] >= 130 (>54)

MELTING POINT ºF (ºC)

- < 140 (<60)
- 140-200 (60-93)
- [x] > 200 (>93)

TOTAL ORGANIC CARBON

- [x] <= 1%
- 1-9%
- >= 10%

FLASH POINT ºF (ºC)

- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- [x] > 200 (>93)

pH

- <= 2
- 2.1 - 6.9
- 7 (Neutral)
- [x] 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY

- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- [x] > 1.2 (e.g. Methylene Chloride)

ASH

- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- > 20
- [x] Unknown

BTU/LB (MJ/kg)

- [x] < 2,000 (<4.6)
- 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
AROCLOR 1254	0.1290000	--	0.1290000	PPM
ARSENIC	0.0250000	--	0.0250000	PPM
BARIUM	1.7000000	--	1.7000000	PPM
SEDIMENT	95.0000000	--	95.0000000	%
WATER	5.0000000	--	5.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES [x] NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. ***G44*** SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. ***W504***

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge ☑ Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0	*0.0250*	*0.0250000*	*PPM*	
D005	BARIUM	100.0	*1.7000*	*1.7000000*	*PPM*	
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0				☑
D008	LEAD	5.0				☑
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑
	VOLATILE COMPOUNDS					
D018	BENZENE	0.5				
D019	CARBON TETRACHLORIDE	0.5				
D021	CHLOROBENZENE	100.0				
D022	CHLOROFORM	6.0				
D028	1,2-DICHLOROETHANE	0.5				
D029	1,1-DICHLOROETHYLENE	0.7				
D035	METHYL ETHYL KETONE	200.0				
D039	TETRACHLOROETHYLENE	0.7				
D040	TRICHLOROETHYLENE	0.5				
D043	VINYL CHLORIDE	0.2				
	SEMI-VOLATILE COMPOUNDS					
D023	o-CRESOL	200.0				
D024	m-CRESOL	200.0				
D025	p-CRESOL	200.0				
D026	CRESOL (TOTAL)	200.0				
D027	1,4-DICHLOROBENZENE	7.5				
D030	2,4-DINITROTOLUENE	0.13				
D032	HEXACHLOROBENZENE	0.13				
D033	HEXACHLOROBUTADIENE	0.5				
D034	HEXACHLOROETHANE	3.0				
D036	NITROBENZENE	2.0				
D037	PENTACHLOROPHENOL	100.0				
D038	PYRIDINE	5.0				
D041	2,4,5-TRICHLOROPHENOL	400.0				
D042	2,4,6-TRICHLOROPHENOL	2.0				
	PESTICIDES AND HERBICIDES					
D012	ENDRIN	0.02				
D013	LINDANE	0.4				
D014	METHOXYCHLOR	10.0				
D015	TOXAPHENE	0.5				
D016	2,4-D	10.0				
D017	2,4,5-TP (SILVEX)	1.0				
D020	CHLORDANE	0.03				
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008				

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

☑ NONE
< 1000 PPM
>= 1000 PPM

PCBs

NONE
☑ < 50 PPM
>=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

YES ☑ NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCES
EXPLOSIVE
FUMING
OSHA REGULATED CARCINOGENS
POLYMERIZABLE
RADIOACTIVE
REACTIVE MATERIAL
☑ NONE OF THE ABOVE

F. REGULATORY STATUS

YES ☑ NO USEPA HAZARDOUS WASTE?

☑ YES NO DO ANY STATE WASTE CODES APPLY?

CR04

Texas Waste Code ***outs5041***

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YES ☑ NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?

LDR CATEGORY: ***Not subject to LDR***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES ☑ NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS A VERY SMALL QUANTITY GENERATOR (VSQG) OR A STATE EQUIVALENT DESIGNATION?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 76.6 KPA (11.1 PSIA)?

YES ☑ NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?

Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

NON DOT REGULATED MATERIAL, (SEDIMENTS, WATER)

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ☑ ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY OTHER

☑ **CONTAINERIZED**

1-1 CONTAINERS/SHIPMENT

STORAGE CAPACITY: ***15***
CONTAINER TYPE:

PORTABLE TOTE TANK BOX|CARTON|CASE

CUBIC YARD BOX ☑ DRUM

OTHER: DRUM SIZE: ***55***

BULK LIQUID

GALLONS/SHIPMENT: ***0 Min -0 Max*** GAL.

BULK SOLID

SHIPMENT UOM: TON YARD

TONS/YARDS/SHIPMENT: ***0 Min - 0 Max***

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge.I also certify that any samples submitted are representative of the actual waste.If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE
amy.romano@wsp.com			

This waste profile has been submitted using Clean Harbors' electronic signature system.

*40 CFR Sec. 264.12 required notice:

As required by Federal Resource Conservation and Recovery Act regulations found in 40 CFR Part 264.12(b) and all equivalent State hazardous waste regulations, notice is hereby provided that all Clean Harbors facilities that may be used to treat, store, and /or dispose of the hazardous waste described on this waste profile have the appropriate permits and the capacity to manage these wastes.

Please note this profile must be submitted for re-evaluation if there has been a change in the waste generating process or when there have been changes in the chemical composition or physical characteristics of the material.

WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH1931356

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # ***NYD002228625*** GENERATOR NAME: ***Emersub 15 LLC***

GENERATOR CODE (Assigned by Clean Harbors) ***EM9322*** CITY ***Ithaca*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***14850***

ADDRESS ***620 South Aurora Street*** PHONE: **(716) 866-1623**

CUSTOMER CODE (Assigned by Clean Harbors) ***WS1117*** CUSTOMER NAME: ***WSP USA Inc.***

ADDRESS ***7000 E Genesee St. Building D 2nd Fl*** CITY ***Fayetteville*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***13066***

B. WASTE DESCRIPTION

WASTE DESCRIPTION: ***Utility Corridor Solids***

PROCESS GENERATING WASTE: **Solids from the utility corridor sump pit**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE
- [x] SOLID WITHOUT FREE LIQUID
- POWDER
- MONOLITHIC SOLID
- LIQUID WITH NO SOLIDS
- LIQUID/SOLID MIXTURE
- % FREE LIQUID
- % SETTLED SOLID
- % TOTAL SUSPENDED SOLID
- SLUDGE
- GAS/AEROSOL

NUMBER OF PHASES/LAYERS

1 2 3

% BY VOLUME (Approx.)

TOP	***0.00***
MIDDLE	***0.00***
BOTTOM	***0.00***

VISCOSITY (If liquid present)
- 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR

Varies

ODOR
- [x] NONE
- MILD
- STRONG

Describe:

BOILING POINT ºF (ºC)
- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- >= 130 (>54)

MELTING POINT ºF (ºC)
- < 140 (<60)
- 140-200 (60-93)
- [x] > 200 (>93)

TOTAL ORGANIC CARBON
- [x] <= 1%
- 1-9%
- >= 10%

FLASH POINT ºF (ºC)
- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- > 200 (>93)

pH
- <= 2
- 2.1 - 6.9
- 7 (Neutral)
- [x] 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY
- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- [x] > 1.2 (e.g. Methylene Chloride)

ASH
- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- > 20
- [x] Unknown

BTU/LB (MJ/kg)
- [x] < 2,000 (<4.6)
- 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
AROCLOR 1254	0.1290000	--	0.1290000	PPM
BARIUM	0.9400000	--	0.9400000	PPM
LEAD	0.0110000	--	0.0110000	PPM
SEDIMENT	100.0000000	--	100.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES [x] NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. ***G44*** SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. ***W504***

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge ☑ Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0				☑
D005	BARIUM	100.0	*0.9400*	*0.9400000*	*PPM*	
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0				☑
D008	LEAD	5.0	*0.0110*	*0.0110000*	*PPM*	
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑

	VOLATILE COMPOUNDS	
D018	BENZENE	0.5
D019	CARBON TETRACHLORIDE	0.5
D021	CHLOROBENZENE	100.0
D022	CHLOROFORM	6.0
D028	1,2-DICHLOROETHANE	0.5
D029	1,1-DICHLOROETHYLENE	0.7
D035	METHYL ETHYL KETONE	200.0
D039	TETRACHLOROETHYLENE	0.7
D040	TRICHLOROETHYLENE	0.5
D043	VINYL CHLORIDE	0.2

	SEMI-VOLATILE COMPOUNDS	
D023	o-CRESOL	200.0
D024	m-CRESOL	200.0
D025	p-CRESOL	200.0
D026	CRESOL (TOTAL)	200.0
D027	1,4-DICHLOROBENZENE	7.5
D030	2,4-DINITROTOLUENE	0.13
D032	HEXACHLOROBENZENE	0.13
D033	HEXACHLOROBUTADIENE	0.5
D034	HEXACHLOROETHANE	3.0
D036	NITROBENZENE	2.0
D037	PENTACHLOROPHENOL	100.0
D038	PYRIDINE	5.0
D041	2,4,5-TRICHLOROPHENOL	400.0
D042	2,4,6-TRICHLOROPHENOL	2.0

	PESTICIDES AND HERBICIDES	
D012	ENDRIN	0.02
D013	LINDANE	0.4
D014	METHOXYCHLOR	10.0
D015	TOXAPHENE	0.5
D016	2,4-D	10.0
D017	2,4,5-TP (SILVEX)	1.0
D020	CHLORDANE	0.03
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

☑ NONE
< 1000 PPM
>= 1000 PPM

PCBs

NONE
☑ < 50 PPM
>=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

YES ☑ NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCES | EXPLOSIVE | FUMING | OSHA REGULATED CARCINOGENS
POLYMERIZABLE | RADIOACTIVE | REACTIVE MATERIAL | ☑ NONE OF THE ABOVE

F. REGULATORY STATUS

YES ☑ NO USEPA HAZARDOUS WASTE?

YES ☑ NO DO ANY STATE WASTE CODES APPLY?

Texas Waste Code ***OUTS5041***

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YES ☑ NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?

LDR CATEGORY: ***Not subject to LDR***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES ☑ NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS A VERY SMALL QUANTITY GENERATOR (VSQG) OR A STATE EQUIVALENT DESIGNATION?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 76.6 KPA (11.1 PSIA)?

YES ☑ NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?

Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

NON DOT REGULATED MATERIAL, (SEDIMENT)

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ☑ ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY OTHER

☑ **CONTAINERIZED**

1-1 CONTAINERS/SHIPMENT

STORAGE CAPACITY: ***15***

CONTAINER TYPE:

PORTABLE TOTE TANK BOX|CARTON|CASE

CUBIC YARD BOX ☑ DRUM

OTHER:

DRUM SIZE: ***55***

BULK LIQUID

GALLONS/SHIPMENT: ***0 Min -0 Max*** GAL.

BULK SOLID

SHIPMENT UOM: TON YARD

TONS/YARDS/SHIPMENT: ***0 Min - 0 Max***

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge.I also certify that any samples submitted are representative of the actual waste.If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE
amy.romano@wsp.com			

This waste profile has been submitted using Clean Harbors' electronic signature system.

*40 CFR Sec. 264.12 required notice:

As required by Federal Resource Conservation and Recovery Act regulations found in 40 CFR Part 264.12(b) and all equivalent State hazardous waste regulations, notice is hereby provided that all Clean Harbors facilities that may be used to treat, store, and /or dispose of the hazardous waste described on this waste profile have the appropriate permits and the capacity to manage these wastes.

Please note this profile must be submitted for re-evaluation if there has been a change in the waste generating process or when there have been changes in the chemical composition or physical characteristics of the material.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

December 12, 2018

Mr. Dave Rykaczewski
WSP Environment & Energy
750 Holiday Drive, Suite 410
Pittsburgh, PA 15220

RE: Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

Dear Mr. Rykaczewski:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner
rachel.christner@pacelabs.com
724-850-5611
Project Manager

Enclosures

cc: Ms. Erin Huntley, WSP Environment & Energy

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CERTIFICATIONS

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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SAMPLE SUMMARY

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30273222001	**Bldg 2 Oil Pit**	Non Aqueous	11/30/18 12:45	12/01/18 11:00

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SAMPLE ANALYTE COUNT

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30273222001	**Bldg 2 Oil Pit**	EPA 8082A	JMD	9	PASI-MV
		EPA 6010C	JMW	7	PASI-MV
		EPA 7471B	AKS	1	PASI-MV
		EPA 8260C	JEW	16	PASI-PA
		EPA 1010	SEF	1	PASI-PA

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PROJECT NARRATIVE

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

Method: **EPA 8082A**
Description: 8082 GCS PCB
Client: WSP Environment & Energy - Pittsburgh, PA
Date: December 12, 2018

General Information:
1 sample was analyzed for EPA 8082A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3580A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

Method: **EPA 6010C**
Description: 6010 MET ICP
Client: WSP Environment & Energy - Pittsburgh, PA
Date: December 12, 2018

General Information:
1 sample was analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

Method: **EPA 7471B**
Description: 7471 Mercury
Client: WSP Environment & Energy - Pittsburgh, PA
Date: December 12, 2018

General Information:
1 sample was analyzed for EPA 7471B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

Method: **EPA 8260C**
Description: 8260C MSV 5035 Med Level
Client: WSP Environment & Energy - Pittsburgh, PA
Date: December 12, 2018

General Information:
1 sample was analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 322825

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 322825

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Bldg 2 Oil Pit (Lab ID: 30273222001)
  - 1,1-Dichloroethene
  - 1,1,1-Trichloroethane
  - 1,2-Dichloroethane
  - Benzene

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PROJECT NARRATIVE

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

Method: **EPA 8260C**
Description: 8260C MSV 5035 Med Level
Client: WSP Environment & Energy - Pittsburgh, PA
Date: December 12, 2018

Analyte Comments:

QC Batch: 322825

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Bldg 2 Oil Pit (Lab ID: 30273222001)
  - cis-1,2-Dichloroethene
  - Ethylbenzene
  - trans-1,2-Dichloroethene
  - Tetrachloroethene
  - Toluene
  - Trichloroethene
  - Vinyl chloride

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PROJECT NARRATIVE

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

Method: **EPA 1010**
Description: 1010 Flashpoint,Closed Cup
Client: WSP Environment & Energy - Pittsburgh, PA
Date: December 12, 2018

General Information:
1 sample was analyzed for EPA 1010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

Sample: Bldg 2 Oil Pit **Lab ID: 30273222001** Collected: 11/30/18 12:45 Received: 12/01/18 11:00 Matrix: Non Aqueous Liquid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3580A								
PCB-1016 (Aroclor 1016)	ND	mg/kg	2.0	0.98	1	12/07/18 17:10	12/09/18 21:51	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	mg/kg	2.0	0.98	1	12/07/18 17:10	12/09/18 21:51	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	mg/kg	2.0	0.98	1	12/07/18 17:10	12/09/18 21:51	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	mg/kg	2.0	0.98	1	12/07/18 17:10	12/09/18 21:51	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	mg/kg	2.0	0.98	1	12/07/18 17:10	12/09/18 21:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**2.6**	mg/kg	2.0	0.98	1	12/07/18 17:10	12/09/18 21:51	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	mg/kg	2.0	0.98	1	12/07/18 17:10	12/09/18 21:51	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	30-150		1	12/07/18 17:10	12/09/18 21:51	877-09-8	
Decachlorobiphenyl (S)	75	%	30-150		1	12/07/18 17:10	12/09/18 21:51	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Arsenic	ND	mg/kg	0.45	0.14	1	12/10/18 11:42	12/10/18 16:27	7440-38-2	
Barium	**19.8**	mg/kg	9.0	0.69	1	12/10/18 11:42	12/10/18 16:27	7440-39-3	
Cadmium	ND	mg/kg	0.11	0.014	1	12/10/18 11:42	12/10/18 16:27	7440-43-9	
Chromium	**5.1**	mg/kg	0.45	0.043	1	12/10/18 11:42	12/10/18 16:27	7440-47-3	
Lead	**4.1**	mg/kg	0.23	0.11	1	12/10/18 11:42	12/10/18 16:27	7439-92-1	
Selenium	ND	mg/kg	0.45	0.24	1	12/10/18 11:42	12/10/18 16:27	7782-49-2	
Silver	ND	mg/kg	0.45	0.057	1	12/10/18 11:42	12/10/18 16:27	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.13**	mg/kg	0.030	0.018	1	12/07/18 17:31	12/10/18 15:45	7439-97-6	
8260C MSV 5035 Med Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B								
Benzene	ND	ug/kg	635	184	1	12/05/18 10:38	12/05/18 17:39	71-43-2	1c
1,2-Dichloroethane	ND	ug/kg	635	104	1	12/05/18 10:38	12/05/18 17:39	107-06-2	1c
1,1-Dichloroethene	ND	ug/kg	635	428	1	12/05/18 10:38	12/05/18 17:39	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	635	222	1	12/05/18 10:38	12/05/18 17:39	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	635	287	1	12/05/18 10:38	12/05/18 17:39	156-60-5	1c
Ethylbenzene	ND	ug/kg	635	194	1	12/05/18 10:38	12/05/18 17:39	100-41-4	1c
Tetrachloroethene	ND	ug/kg	635	235	1	12/05/18 10:38	12/05/18 17:39	127-18-4	1c
Toluene	ND	ug/kg	635	184	1	12/05/18 10:38	12/05/18 17:39	108-88-3	1c
1,1,1-Trichloroethane	ND	ug/kg	635	232	1	12/05/18 10:38	12/05/18 17:39	71-55-6	1c
Trichloroethene	ND	ug/kg	635	253	1	12/05/18 10:38	12/05/18 17:39	79-01-6	1c
Vinyl chloride	ND	ug/kg	635	326	1	12/05/18 10:38	12/05/18 17:39	75-01-4	1c
Xylene (Total)	ND	ug/kg	1900	558	1	12/05/18 10:38	12/05/18 17:39	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%.	81-117		1	12/05/18 10:38	12/05/18 17:39	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	74-121		1	12/05/18 10:38	12/05/18 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		1	12/05/18 10:38	12/05/18 17:39	17060-07-0	
Dibromofluoromethane (S)	96	%.			1	12/05/18 10:38	12/05/18 17:39	1868-53-7	
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010								
Flashpoint	**>200**	deg F	60.0		1		12/05/18 16:22		

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

QC Batch: 94097 | Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B | Analysis Description: 7471 Mercury
Associated Lab Samples: 30273222001

METHOD BLANK: 434833 | Matrix: Solid
Associated Lab Samples: 30273222001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.033	0.020	12/10/18 15:36	

LABORATORY CONTROL SAMPLE: 434834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.17	0.17	105	80-120	

MATRIX SPIKE SAMPLE: 434835

Parameter	Units	30273222001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.13	0.18	0.28	80	80-120	

SAMPLE DUPLICATE: 434836

Parameter	Units	30273222001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/kg	0.13	0.12	7	20	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

QC Batch: 94196 | Analysis Method: EPA 6010C
QC Batch Method: EPA 3050B | Analysis Description: 6010 MET
Associated Lab Samples: 30273222001

METHOD BLANK: 435444 | Matrix: Solid
Associated Lab Samples: 30273222001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.50	0.15	12/10/18 16:25	
Barium	mg/kg	ND	10	0.76	12/10/18 16:25	
Cadmium	mg/kg	ND	0.12	0.015	12/10/18 16:25	
Chromium	mg/kg	ND	0.50	0.048	12/10/18 16:25	
Lead	mg/kg	ND	0.25	0.12	12/10/18 16:25	
Selenium	mg/kg	ND	0.50	0.26	12/10/18 16:25	
Silver	mg/kg	ND	0.50	0.063	12/10/18 16:25	

LABORATORY CONTROL SAMPLE: 435445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	161	145	90	80-120	
Barium	mg/kg	259	238	92	80-120	
Cadmium	mg/kg	210	183	87	80-120	
Chromium	mg/kg	136	120	88	80-120	
Lead	mg/kg	111	99.2	90	80-120	
Selenium	mg/kg	190	154	81	80-120	
Silver	mg/kg	43.2	39.1	91	80-120	

MATRIX SPIKE SAMPLE: 435447

Parameter	Units	30273222001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	ND	27.7	25.4	91	75-125	
Barium	mg/kg	19.8	27.7	45.5	93	75-125	
Cadmium	mg/kg	ND	2.8	2.7	95	75-125	
Chromium	mg/kg	5.1	13.9	18.2	95	75-125	
Lead	mg/kg	4.1	27.7	30.3	94	75-125	
Selenium	mg/kg	ND	41.6	34.5	83	75-125	
Silver	mg/kg	ND	13.9	15.4	110	75-125	

SAMPLE DUPLICATE: 435446

Parameter	Units	30273222001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	ND	ND		20	
Barium	mg/kg	19.8	19.1	3	20	
Cadmium	mg/kg	ND	.046J		20	
Chromium	mg/kg	5.1	4.7	8	20	

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

SAMPLE DUPLICATE: 435446

Parameter	Units	30273222001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	mg/kg	4.1	4.0	2	20	
Selenium	mg/kg	ND	ND		20	
Silver	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

QC Batch: 322825 | Analysis Method: EPA 8260C
QC Batch Method: EPA 5035A/5030B | Analysis Description: 8260C MSV 5035 Med Level
Associated Lab Samples: 30273222001

METHOD BLANK: 1573501 | Matrix: Solid
Associated Lab Samples: 30273222001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	250	91.5	12/05/18 11:55	
1,1-Dichloroethene	ug/kg	ND	250	168	12/05/18 11:55	
1,2-Dichloroethane	ug/kg	ND	250	41.0	12/05/18 11:55	
Benzene	ug/kg	ND	250	72.5	12/05/18 11:55	
cis-1,2-Dichloroethene	ug/kg	ND	250	87.5	12/05/18 11:55	
Ethylbenzene	ug/kg	ND	250	76.5	12/05/18 11:55	
Tetrachloroethene	ug/kg	ND	250	92.5	12/05/18 11:55	
Toluene	ug/kg	ND	250	72.5	12/05/18 11:55	
trans-1,2-Dichloroethene	ug/kg	ND	250	113	12/05/18 11:55	
Trichloroethene	ug/kg	ND	250	99.5	12/05/18 11:55	
Vinyl chloride	ug/kg	ND	250	128	12/05/18 11:55	
Xylene (Total)	ug/kg	ND	750	220	12/05/18 11:55	
1,2-Dichloroethane-d4 (S)	%.	98	74-131		12/05/18 11:55	
4-Bromofluorobenzene (S)	%.	102	70-133		12/05/18 11:55	
Dibromofluoromethane (S)	%.	99	71-130		12/05/18 11:55	
Toluene-d8 (S)	%.	103	76-124		12/05/18 11:55	

LABORATORY CONTROL SAMPLE: 1573502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	1000	934	93	70-130	
1,1-Dichloroethene	ug/kg	1000	957	96	70-130	
1,2-Dichloroethane	ug/kg	1000	897	90	70-130	
Benzene	ug/kg	1000	953	95	70-130	
cis-1,2-Dichloroethene	ug/kg	1000	899	90	70-130	
Ethylbenzene	ug/kg	1000	941	94	70-130	
Tetrachloroethene	ug/kg	1000	991	99	70-130	
Toluene	ug/kg	1000	941	94	70-130	
trans-1,2-Dichloroethene	ug/kg	1000	936	94	70-130	
Trichloroethene	ug/kg	1000	913	91	70-130	
Vinyl chloride	ug/kg	1000	1020	102	70-130	
Xylene (Total)	ug/kg	3000	2890	96	70-130	
1,2-Dichloroethane-d4 (S)	%.			104	74-131	
4-Bromofluorobenzene (S)	%.			98	70-133	
Dibromofluoromethane (S)	%.			103	71-130	
Toluene-d8 (S)	%.			101	76-124	

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REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALITY CONTROL DATA

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

QC Batch: 94089 | Analysis Method: EPA 8082A
QC Batch Method: EPA 3580A | Analysis Description: 8082 GCS PCB Oil
Associated Lab Samples: 30273222001

METHOD BLANK: 434759 | Matrix: Non Aqueous Liquid
Associated Lab Samples: 30273222001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	ND	1.8	0.92	12/09/18 21:25	
PCB-1221 (Aroclor 1221)	mg/kg	ND	1.8	0.92	12/09/18 21:25	
PCB-1232 (Aroclor 1232)	mg/kg	ND	1.8	0.92	12/09/18 21:25	
PCB-1242 (Aroclor 1242)	mg/kg	ND	1.8	0.92	12/09/18 21:25	
PCB-1248 (Aroclor 1248)	mg/kg	ND	1.8	0.92	12/09/18 21:25	
PCB-1254 (Aroclor 1254)	mg/kg	ND	1.8	0.92	12/09/18 21:25	
PCB-1260 (Aroclor 1260)	mg/kg	ND	1.8	0.92	12/09/18 21:25	
Decachlorobiphenyl (S)	%	90	30-150		12/09/18 21:25	
Tetrachloro-m-xylene (S)	%	85	30-150		12/09/18 21:25	

LABORATORY CONTROL SAMPLE: 434760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	11.8	9.4	79	66-140	
PCB-1260 (Aroclor 1260)	mg/kg	11.8	9.4	80	67-140	
Decachlorobiphenyl (S)	%			92	30-150	
Tetrachloro-m-xylene (S)	%			87	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 434768 434769

Parameter	Units	30273222001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	mg/kg	ND	12.2	12.5	10.3	10.7	85	86	52-140	4	30	
PCB-1221 (Aroclor 1221)	mg/kg	ND			ND	ND					30	
PCB-1232 (Aroclor 1232)	mg/kg	ND			ND	ND					30	
PCB-1242 (Aroclor 1242)	mg/kg	ND			ND	ND					30	
PCB-1248 (Aroclor 1248)	mg/kg	ND			ND	ND					30	
PCB-1254 (Aroclor 1254)	mg/kg	2.6			5.0	5.6				11	30	
PCB-1260 (Aroclor 1260)	mg/kg	ND	12.2	12.5	8.1	9.2	66	73	48-140	13	30	
Decachlorobiphenyl (S)	%						67	69	30-150		30	
Tetrachloro-m-xylene (S)	%						71	71	30-150		30	

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REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALITY CONTROL DATA

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

QC Batch: 322912 | Analysis Method: EPA 1010
QC Batch Method: EPA 1010 | Analysis Description: 1010 Flash Point, Closed Cup
Associated Lab Samples: 30273222001

METHOD BLANK: 1573703 | Matrix: Water
Associated Lab Samples: 30273222001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Flashpoint	deg F	>200	60.0		12/05/18 15:43	

SAMPLE DUPLICATE: 1573704

Parameter	Units	30273240001 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	>200	>200			

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(724)850-5600

QUALIFIERS

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-MV	Pace Analytical Services - Long Island
PASI-PA	Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: 322825

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former EPT Site-Soil IRM
Pace Project No.: 30273222

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30273222001	**Bldg 2 Oil Pit**	EPA 3580A	94089	EPA 8082A	94104
30273222001	**Bldg 2 Oil Pit**	EPA 3050B	94196	EPA 6010C	94225
30273222001	**Bldg 2 Oil Pit**	EPA 7471B	94097	EPA 7471B	94110
30273222001	**Bldg 2 Oil Pit**	EPA 5035A/5030B	322825	EPA 8260C	322830
30273222001	**Bldg 2 Oil Pit**	EPA 1010	322912		

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CHAIN-OF-CUS

The Chain-of-Custody is a LE

WO# : 30273222

30273222

Page: 1 of 1

2203784

Section A Required Client Information:

Company: WSP
Address: 11 Stanwix Street, Suite 950
Pittsburgh, PA 15222
Email To: Dave.Rykaczewski@wsp.com
Phone: 412-375-0282 Fax:
Requested Due Date/TAT: 1 Day

Section B Required Project Information:

Report To: Dave Rykaczewski
Copy To: Erin Huntley (Erin.Huntley@wsp.com)
Purchase Order No.:
Project Name: Former EPT Site — So.1 IRM
Project Number: 31401545.001

Section C Invoice Information:

Attention: Environment Accounts Payable
Company Name: WSP
Address: 13530 Dulles Technology Drive
~~Pace Quote Reference:~~ Herndon, VA 20171
Pace Project Manager: Rachel Christner
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER NYSDEC

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) VOCs * (8260)	PCBs (8082)	Fingerprint/TPH NYSDOH Method 310.13	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Bldg 2 Oil Pit	OL	G	—	—	11/30/18	1245		4	4								X	X	X		001
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NYASP Category B data deliverable	[signature]	11/30/18	1600	Fedex	11/30/18	1600				
Hold 1L Amber glass for future analysis				[signature] PACE	12/1/18	1100	3.7	Y	N	Y
* See task order for list of specific CVOCs										
Custody Seal #										

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Cummings

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11/30/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

SW846 5035A/8260C (Encore Samplers for the following 8 VOCs:

- 1,1,1-Trichloroethane (71-55-6)
- Trichloroethene (79-01-6)
- Tetrachloroethene (127-18-4)
- 1,2-Dichloroethane (107-06-2)
- 1,1-Dichloroethene (75-35-4)
- cis-1,2-Dichloroethene (156-59-2)
- trans-1,2-Dichloroethene (156-60-5)
- Vinyl Chloride (75-01-4)

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: WSP Project # 30273222

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8709 8356 4380

Label BLM
LIMS Login ~~AKA~~ BLM BM 12-4-18

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Thermometer Used 4 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 3.7 °C Correction Factor: -0.1 °C Final Temp: ~~3.7~~ 3.6 °C JLB 12/4/18

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# NA	Date and Initials of person examining contents: 12/4/18 JLB
Chain of Custody Present:	✓			1.	
Chain of Custody Filled Out:	✓			2.	
Chain of Custody Relinquished:	✓			3.	
Sampler Name & Signature on COC:	✓			4.	
Sample Labels match COC: -Includes date/time/ID Matrix: OL	✓			5.	
Samples Arrived within Hold Time:	✓			6.	
Short Hold Time Analysis (<72hr remaining):		✓		7.	
Rush Turn Around Time Requested:	✓			8.	
Sufficient Volume:	✓			9.	
Correct Containers Used: -Pace Containers Used:	✓ ✓			10.	
Containers Intact:	✓			11.	
Orthophosphate field filtered			✓	12.	
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation.			✓ ✓	16.	
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed JLB	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):			✓	17.	
Trip Blank Present: Trip Blank Custody Seals Present		✓	✓	18.	
Rad Aqueous Samples Screened > 0.5 mrem/hr				Initial when completed:	Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Chain of Custody

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☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: NY
Cert. Needed: ☒ Yes ☐ No

Workorder: 30273222 **Workorder Name:** Former EPT Site-Soil IRM

Owner Received Date: 12/1/2018 Results Requested By: 12/6/2018

Report To

Rachel Christner
Pace Analytical Pittsburgh
1638 Roseytown Road
Suites 2,3,4
Greensburg, PA 15601
Phone 724-850-5611

Subcontract To

Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone (631)694-3040

WO#:7072901

7072901

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: 8082 PCBs	LAB USE ONLY
1	Bldg 2 Oil Pit	PS	11/30/2018 12:45	30273222001	Non	1	X	
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	12-4-18 1600	[illegible]	12/5/18 11:30
2				
3				

Comments

Cooler Temperature on Receipt 0.9 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

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CHAIN-OF-CUS

WO#: 30273222

The Chain-of-Custody is a LE

WO#: 7072901
PM: NML Due Date: 12/10/18
CLIENT: PACE-PA

Page: 1 of 1

2203784

Section A Required Client Information:

Company: WSP
Address: 11 Stanwix Street, Suite 950
Pittsburgh, PA 15222
Email To: Dave.Rykaczewski@wsp.com
Phone: 412-375-0282 Fax:
Requested Due Date/TAT: 1 Day

Section B Required Project Information:

Report To: Dave Rykaczewski
Copy To: Erin Huntley (Erin.Huntley@wsp.com)
Purchase Order No.:
Project Name: Former EPT Site — So. 1 IRM
Project Number: 31401545.001

Invoi
Atter
Comp: WSP
Address: 13530 Dulles Technology Drive
Herndon, VA 20171
~~Pace Quote~~ Reference:
Pace Project Manager: Rachel Christner
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER NYSDEC

Site Location STATE: NY

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs * (8260)	PCBs (8082)	Fingerprint/TPH NYSDEC Method 310.13	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Bldg 2 Oil Pit	OL	G	—	—	11/30/18	1245		4	4								X	XX	X		001
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NYASP Category B data deliverable	[signature]	11/30/18	1600	Fedex	11/30/18	1600				
Hold 1L amber glass for future analysis				[signature] PACE	12/1/18	1100	3.7	Y	N	Y
* See task order for list of specific VOCs										
Custody Seal #										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Daniel Cummings
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 11/30/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

30273222

Project # ..... Computed By ..... Date ..... Sheet No. ..... of .....

Project ..... Checked By ..... Date ..... Subject .....

SW846 5035A/8260C (Encore Samplers for the following 8 VOCs:

- 1,1,1-Trichloroethane (71-55-6)
- Trichloroethene (79-01-6)
- Tetrachloroethene (127-18-4)
- 1,2-Dichloroethane (107-06-2)
- 1,1-Dichloroethene (75-35-4)
- cis-1,2-Dichloroethene (156-59-2)
- trans-1,2-Dichloroethene (156-60-5)
- Vinyl Chloride (75-01-4)

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: WSP

Project # 30273222

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8709 8356 4380

Label BLM
LIMS Login ~~AAA~~ BLM

BM 12-4-18

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Thermometer Used 4 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 3.7 °C Correction Factor: -0.1 °C Final Temp: ~~3.7~~ 3.6 °C JLB 12/4/18

Temp should be above freezing to 6°C

pH paper Lot# NA

Date and Initials of person examining contents: 12/4/18 JLB

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: OL	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓ ✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: VOA, coliform, TOC, O&G, Phenolics			✓ ✓	16. Initial when completed JLB Date/time of preservation Lot # of added preservative
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present: Trip Blank Custody Seals Present		✓	✓	18.
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

J:\QAQC\Master\Document Management\Sample Mgt\Sample Condition Upon Receipt Pittsburgh (C056-7 16Feb2018)

Pace Analytical
Long Island Laboratory

Sample Condition Upon Receipt

WO#:7072901
PM: NML Due Date: 12/10/18
CLIENT: PACE-PA

Client Name: Pace-Pa

Project

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 4267 4209 6882

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Type of Ice: (Wet) Blue None

Thermometer Used: (TH091) Correction Factor: 0.0

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 0.9 Cooler Temperature Corrected (°C): 0.9 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample) Date and Initials of person examining contents: 12/5/18 JP

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

January 25, 2019

Mr. Dave Rykaczewski
WSP Environment & Energy
750 Holiday Drive, Suite 410
Pittsburgh, PA 15220

RE: Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Dear Mr. Rykaczewski:
Enclosed are the analytical results for sample(s) received by the laboratory on January 23, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner
rachel.christner@pacelabs.com
724-850-5611
Project Manager

Enclosures

cc: Ms. Erin Huntley, WSP Environment & Energy

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CERTIFICATIONS

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30277631001	**Test Pit #1 (2.0-2.2')**	Solid	01/22/19 11:00	01/23/19 09:50
30277631002	**Test Pit #9 (3.8-4.0')**	Solid	01/22/19 11:20	01/23/19 09:50
30277631003	**MH-22/MH-A6**	Solid	01/22/19 11:35	01/23/19 09:50
30277631004	**Test Pit #12 (1.4-1.6')**	Solid	01/22/19 11:55	01/23/19 09:50
30277631005	**Test Pit #13 (4.0-4.2')**	Solid	01/22/19 12:10	01/23/19 09:50
30277631006	**Test Pit #17 (3.6-3.8')**	Solid	01/22/19 12:25	01/23/19 09:50
30277631007	**AOC27-DS-1**	Solid	01/18/19 11:20	01/23/19 09:50
30277631008	**AOC27-DS-2**	Solid	01/18/19 11:30	01/23/19 09:50

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SAMPLE ANALYTE COUNT

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30277631001	**Test Pit #1 (2.0-2.2')**	EPA 8260C	JEW	12	PASI-PA
		ASTM D2974-87	AK1	1	PASI-PA
30277631002	**Test Pit #9 (3.8-4.0')**	EPA 8260C	JEW	12	PASI-PA
		ASTM D2974-87	AK1	1	PASI-PA
30277631003	**MH-22/MH-A6**	EPA 8260C	JEW	12	PASI-PA
		ASTM D2974-87	AK1	1	PASI-PA
30277631004	**Test Pit #12 (1.4-1.6')**	EPA 8260C	JEW	12	PASI-PA
		ASTM D2974-87	AK1	1	PASI-PA
30277631005	**Test Pit #13 (4.0-4.2')**	EPA 8260C	JEW	12	PASI-PA
		ASTM D2974-87	AK1	1	PASI-PA
30277631006	**Test Pit #17 (3.6-3.8')**	EPA 8260C	JEW	12	PASI-PA
		ASTM D2974-87	AK1	1	PASI-PA
30277631007	**AOC27-DS-1**	EPA 6010C	CTS	1	PASI-PA
		ASTM D2974-87	AK1	1	PASI-PA
		EPA 9012B	LEP	1	PASI-PA
30277631008	**AOC27-DS-2**	EPA 6010C	CTS	1	PASI-PA
		ASTM D2974-87	AK1	1	PASI-PA
		EPA 9012B	LEP	1	PASI-PA

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PROJECT NARRATIVE

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Method: **EPA 6010C**
Description: 6010C MET ICP
Client: WSP Environment & Energy - Pittsburgh, PA
Date: January 25, 2019

General Information:
2 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 327918

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30277631007

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1596317)
  - Barium
- MSD (Lab ID: 1596318)
  - Barium

Additional Comments:

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PROJECT NARRATIVE

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Method: **EPA 8260C**
Description: 8260C MSV 5035 Low Level
Client: WSP Environment & Energy - Pittsburgh, PA
Date: January 25, 2019

General Information:
6 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

QC Batch: 327944

IS: The internal standard response is below criteria. Results may be biased high.
- Test Pit #17 (3.6-3.8') (Lab ID: 30277631006)
  - 4-Bromofluorobenzene (S)

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 327944

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
- Test Pit #17 (3.6-3.8') (Lab ID: 30277631006)
  - 4-Bromofluorobenzene (S)

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.
- Test Pit #17 (3.6-3.8') (Lab ID: 30277631006)
  - 4-Bromofluorobenzene (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Method: **EPA 8260C**
Description: 8260C MSV 5035 Low Level
Client: WSP Environment & Energy - Pittsburgh, PA
Date: January 25, 2019

QC Batch: 327943

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 327944

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 327943

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Test Pit #9 (3.8-4.0') (Lab ID: 30277631002)
  - 1,1-Dichloroethene
  - 1,1,1-Trichloroethane
  - 1,2-Dichloroethane
  - cis-1,2-Dichloroethene
  - trans-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene
  - Vinyl chloride

QC Batch: 327944

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- MH-22/MH-A6 (Lab ID: 30277631003)
  - 1,1-Dichloroethene
  - 1,1,1-Trichloroethane
  - 1,2-Dichloroethane
  - cis-1,2-Dichloroethene
  - trans-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene
  - Vinyl chloride
- Test Pit #1 (2.0-2.2') (Lab ID: 30277631001)
  - 1,1-Dichloroethene
  - 1,1,1-Trichloroethane
  - 1,2-Dichloroethane
  - cis-1,2-Dichloroethene
  - trans-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene
  - Vinyl chloride
- Test Pit #12 (1.4-1.6') (Lab ID: 30277631004)
  - 1,1-Dichloroethene
  - 1,1,1-Trichloroethane
  - 1,2-Dichloroethane
  - cis-1,2-Dichloroethene

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PROJECT NARRATIVE

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Method: **EPA 8260C**
Description: 8260C MSV 5035 Low Level
Client: WSP Environment & Energy - Pittsburgh, PA
Date: January 25, 2019

Analyte Comments:

QC Batch: 327944

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Test Pit #12 (1.4-1.6') (Lab ID: 30277631004)
  - trans-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene
  - Vinyl chloride
- Test Pit #13 (4.0-4.2') (Lab ID: 30277631005)
  - 1,1-Dichloroethene
  - 1,1,1-Trichloroethane
  - 1,2-Dichloroethane
  - cis-1,2-Dichloroethene
  - trans-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene
  - Vinyl chloride
- Test Pit #17 (3.6-3.8') (Lab ID: 30277631006)
  - 1,1-Dichloroethene
  - 1,1,1-Trichloroethane
  - 1,2-Dichloroethane
  - cis-1,2-Dichloroethene
  - trans-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene
  - Vinyl chloride

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PROJECT NARRATIVE

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Method: **EPA 9012B**
Description: 9012B Cyanide, Total
Client: WSP Environment & Energy - Pittsburgh, PA
Date: January 25, 2019

General Information:
2 samples were analyzed for EPA 9012B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 9012B with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 327822

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30277121001

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1595906)
  - Cyanide
- MSD (Lab ID: 1595907)
  - Cyanide

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Sample: Test Pit #1 (2.0-2.2') **Lab ID: 30277631001** Collected: 01/22/19 11:00 Received: 01/23/19 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
1,2-Dichloroethane	ND	mg/kg	0.0081	0.0021	1	01/24/19 10:42	01/24/19 12:35	107-06-2	1c
1,1-Dichloroethene	ND	mg/kg	0.0081	0.0030	1	01/24/19 10:42	01/24/19 12:35	75-35-4	1c
cis-1,2-Dichloroethene	ND	mg/kg	0.0081	0.0019	1	01/24/19 10:42	01/24/19 12:35	156-59-2	1c
trans-1,2-Dichloroethene	ND	mg/kg	0.0081	0.0020	1	01/24/19 10:42	01/24/19 12:35	156-60-5	1c
Tetrachloroethene	ND	mg/kg	0.0081	0.0028	1	01/24/19 10:42	01/24/19 12:35	127-18-4	1c
1,1,1-Trichloroethane	ND	mg/kg	0.0081	0.0024	1	01/24/19 10:42	01/24/19 12:35	71-55-6	1c
Trichloroethene	ND	mg/kg	0.0081	0.0024	1	01/24/19 10:42	01/24/19 12:35	79-01-6	1c
Vinyl chloride	ND	mg/kg	0.0081	0.0035	1	01/24/19 10:42	01/24/19 12:35	75-01-4	1c
Surrogates									
Toluene-d8 (S)	98	%.	76-124		1	01/24/19 10:42	01/24/19 12:35	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	70-133		1	01/24/19 10:42	01/24/19 12:35	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%.	74-131		1	01/24/19 10:42	01/24/19 12:35	17060-07-0	
Dibromofluoromethane (S)	92	%.	71-130		1	01/24/19 10:42	01/24/19 12:35	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.2**	%	0.10	0.10	1		01/23/19 14:31		

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ANALYTICAL RESULTS

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Sample: Test Pit #9 (3.8-4.0') **Lab ID: 30277631002** Collected: 01/22/19 11:20 Received: 01/23/19 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
1,2-Dichloroethane	ND	mg/kg	0.0060	0.0015	1	01/24/19 10:42	01/24/19 12:09	107-06-2	1c
1,1-Dichloroethene	ND	mg/kg	0.0060	0.0022	1	01/24/19 10:42	01/24/19 12:09	75-35-4	1c
cis-1,2-Dichloroethene	ND	mg/kg	0.0060	0.0014	1	01/24/19 10:42	01/24/19 12:09	156-59-2	1c
trans-1,2-Dichloroethene	ND	mg/kg	0.0060	0.0015	1	01/24/19 10:42	01/24/19 12:09	156-60-5	1c
Tetrachloroethene	ND	mg/kg	0.0060	0.0021	1	01/24/19 10:42	01/24/19 12:09	127-18-4	1c
1,1,1-Trichloroethane	ND	mg/kg	0.0060	0.0018	1	01/24/19 10:42	01/24/19 12:09	71-55-6	1c
Trichloroethene	ND	mg/kg	0.0060	0.0018	1	01/24/19 10:42	01/24/19 12:09	79-01-6	1c
Vinyl chloride	ND	mg/kg	0.0060	0.0026	1	01/24/19 10:42	01/24/19 12:09	75-01-4	1c
Surrogates									
Toluene-d8 (S)	101	%.	76-124		1	01/24/19 10:42	01/24/19 12:09	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-133		1	01/24/19 10:42	01/24/19 12:09	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%.	74-131		1	01/24/19 10:42	01/24/19 12:09	17060-07-0	
Dibromofluoromethane (S)	97	%.	71-130		1	01/24/19 10:42	01/24/19 12:09	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.2**	%	0.10	0.10	1		01/23/19 14:31		

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ANALYTICAL RESULTS

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Sample: MH-22/MH-A6 **Lab ID: 30277631003** Collected: 01/22/19 11:35 Received: 01/23/19 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
1,2-Dichloroethane	ND	mg/kg	0.012	0.0032	1	01/24/19 10:42	01/24/19 13:01	107-06-2	1c
1,1-Dichloroethene	ND	mg/kg	0.012	0.0046	1	01/24/19 10:42	01/24/19 13:01	75-35-4	1c
cis-1,2-Dichloroethene	ND	mg/kg	0.012	0.0029	1	01/24/19 10:42	01/24/19 13:01	156-59-2	1c
trans-1,2-Dichloroethene	ND	mg/kg	0.012	0.0032	1	01/24/19 10:42	01/24/19 13:01	156-60-5	1c
Tetrachloroethene	ND	mg/kg	0.012	0.0043	1	01/24/19 10:42	01/24/19 13:01	127-18-4	1c
1,1,1-Trichloroethane	ND	mg/kg	0.012	0.0038	1	01/24/19 10:42	01/24/19 13:01	71-55-6	1c
Trichloroethene	ND	mg/kg	0.012	0.0037	1	01/24/19 10:42	01/24/19 13:01	79-01-6	1c
Vinyl chloride	ND	mg/kg	0.012	0.0054	1	01/24/19 10:42	01/24/19 13:01	75-01-4	1c
Surrogates									
Toluene-d8 (S)	102	%.	76-124		1	01/24/19 10:42	01/24/19 13:01	2037-26-5	
4-Bromofluorobenzene (S)	118	%.	70-133		1	01/24/19 10:42	01/24/19 13:01	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%.	74-131		1	01/24/19 10:42	01/24/19 13:01	17060-07-0	
Dibromofluoromethane (S)	97	%.	71-130		1	01/24/19 10:42	01/24/19 13:01	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**39.2**	%	0.10	0.10	1		01/23/19 14:31		

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ANALYTICAL RESULTS

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Sample: Test Pit #12 (1.4-1.6') **Lab ID: 30277631004** Collected: 01/22/19 11:55 Received: 01/23/19 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
1,2-Dichloroethane	ND	mg/kg	0.0076	0.0020	1	01/24/19 10:42	01/24/19 13:27	107-06-2	1c
1,1-Dichloroethene	ND	mg/kg	0.0076	0.0028	1	01/24/19 10:42	01/24/19 13:27	75-35-4	1c
cis-1,2-Dichloroethene	ND	mg/kg	0.0076	0.0018	1	01/24/19 10:42	01/24/19 13:27	156-59-2	1c
trans-1,2-Dichloroethene	ND	mg/kg	0.0076	0.0019	1	01/24/19 10:42	01/24/19 13:27	156-60-5	1c
Tetrachloroethene	ND	mg/kg	0.0076	0.0026	1	01/24/19 10:42	01/24/19 13:27	127-18-4	1c
1,1,1-Trichloroethane	ND	mg/kg	0.0076	0.0023	1	01/24/19 10:42	01/24/19 13:27	71-55-6	1c
Trichloroethene	ND	mg/kg	0.0076	0.0022	1	01/24/19 10:42	01/24/19 13:27	79-01-6	1c
Vinyl chloride	ND	mg/kg	0.0076	0.0033	1	01/24/19 10:42	01/24/19 13:27	75-01-4	1c
Surrogates									
Toluene-d8 (S)	101	%.	76-124		1	01/24/19 10:42	01/24/19 13:27	2037-26-5	
4-Bromofluorobenzene (S)	113	%.	70-133		1	01/24/19 10:42	01/24/19 13:27	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%.	74-131		1	01/24/19 10:42	01/24/19 13:27	17060-07-0	
Dibromofluoromethane (S)	97	%.	71-130		1	01/24/19 10:42	01/24/19 13:27	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.6**	%	0.10	0.10	1		01/23/19 14:31		

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ANALYTICAL RESULTS

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Sample: Test Pit #13 (4.0-4.2') **Lab ID: 30277631005** Collected: 01/22/19 12:10 Received: 01/23/19 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
1,2-Dichloroethane	ND	mg/kg	0.014	0.0037	1	01/24/19 10:42	01/24/19 13:53	107-06-2	1c
1,1-Dichloroethene	ND	mg/kg	0.014	0.0053	1	01/24/19 10:42	01/24/19 13:53	75-35-4	1c
cis-1,2-Dichloroethene	ND	mg/kg	0.014	0.0033	1	01/24/19 10:42	01/24/19 13:53	156-59-2	1c
trans-1,2-Dichloroethene	ND	mg/kg	0.014	0.0036	1	01/24/19 10:42	01/24/19 13:53	156-60-5	1c
Tetrachloroethene	ND	mg/kg	0.014	0.0049	1	01/24/19 10:42	01/24/19 13:53	127-18-4	1c
1,1,1-Trichloroethane	ND	mg/kg	0.014	0.0043	1	01/24/19 10:42	01/24/19 13:53	71-55-6	1c
Trichloroethene	ND	mg/kg	0.014	0.0042	1	01/24/19 10:42	01/24/19 13:53	79-01-6	1c
Vinyl chloride	ND	mg/kg	0.014	0.0061	1	01/24/19 10:42	01/24/19 13:53	75-01-4	1c
Surrogates									
Toluene-d8 (S)	103	%.	76-124		1	01/24/19 10:42	01/24/19 13:53	2037-26-5	
4-Bromofluorobenzene (S)	117	%.	70-133		1	01/24/19 10:42	01/24/19 13:53	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%.	74-131		1	01/24/19 10:42	01/24/19 13:53	17060-07-0	
Dibromofluoromethane (S)	101	%.	71-130		1	01/24/19 10:42	01/24/19 13:53	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**50.2**	%	0.10	0.10	1		01/23/19 14:31		

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ANALYTICAL RESULTS

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Sample: Test Pit #17 (3.6-3.8') **Lab ID: 30277631006** Collected: 01/22/19 12:25 Received: 01/23/19 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
1,2-Dichloroethane	ND	mg/kg	0.0090	0.0023	1	01/24/19 10:42	01/24/19 14:19	107-06-2	1c
1,1-Dichloroethene	ND	mg/kg	0.0090	0.0034	1	01/24/19 10:42	01/24/19 14:19	75-35-4	1c
cis-1,2-Dichloroethene	ND	mg/kg	0.0090	0.0021	1	01/24/19 10:42	01/24/19 14:19	156-59-2	1c
trans-1,2-Dichloroethene	ND	mg/kg	0.0090	0.0023	1	01/24/19 10:42	01/24/19 14:19	156-60-5	1c
Tetrachloroethene	ND	mg/kg	0.0090	0.0031	1	01/24/19 10:42	01/24/19 14:19	127-18-4	1c
1,1,1-Trichloroethane	ND	mg/kg	0.0090	0.0027	1	01/24/19 10:42	01/24/19 14:19	71-55-6	1c
Trichloroethene	ND	mg/kg	0.0090	0.0027	1	01/24/19 10:42	01/24/19 14:19	79-01-6	1c
Vinyl chloride	ND	mg/kg	0.0090	0.0039	1	01/24/19 10:42	01/24/19 14:19	75-01-4	1c
Surrogates									
Toluene-d8 (S)	111	%.	76-124		1	01/24/19 10:42	01/24/19 14:19	2037-26-5	
4-Bromofluorobenzene (S)	163	%.	70-133		1	01/24/19 10:42	01/24/19 14:19	460-00-4	IS,S3, ST
1,2-Dichloroethane-d4 (S)	93	%.	74-131		1	01/24/19 10:42	01/24/19 14:19	17060-07-0	
Dibromofluoromethane (S)	100	%.	71-130		1	01/24/19 10:42	01/24/19 14:19	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**29.3**	%	0.10	0.10	1		01/23/19 14:31		

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ANALYTICAL RESULTS

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Sample: AOC27-DS-1 **Lab ID: 30277631007** Collected: 01/18/19 11:20 Received: 01/23/19 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Barium	**42800**	mg/kg	23.5	1.1	10	01/24/19 07:59	01/25/19 08:24	7440-39-3	ML
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.2**	%	0.10	0.10	1		01/23/19 14:32		
9012B Cyanide, Total	Analytical Method: EPA 9012B Preparation Method: EPA 9012B								
Cyanide	ND	mg/kg	1.1	0.14	1	01/23/19 12:02	01/23/19 18:20	57-12-5	

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ANALYTICAL RESULTS

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Sample: AOC27-DS-2 **Lab ID: 30277631008** Collected: 01/18/19 11:30 Received: 01/23/19 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Barium	**5100**	mg/kg	20.2	0.95	10	01/24/19 07:59	01/25/19 08:31	7440-39-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.2**	%	0.10	0.10	1		01/23/19 14:32		
9012B Cyanide, Total	Analytical Method: EPA 9012B Preparation Method: EPA 9012B								
Cyanide	ND	mg/kg	0.95	0.12	1	01/23/19 12:02	01/23/19 18:22	57-12-5	

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QUALITY CONTROL DATA

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

QC Batch: 327918 | Analysis Method: EPA 6010C
QC Batch Method: EPA 3050B | Analysis Description: 6010C MET
Associated Lab Samples: 30277631007, 30277631008

METHOD BLANK: 1596315 | Matrix: Solid
Associated Lab Samples: 30277631007, 30277631008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	mg/kg	ND	2.0	0.092	01/25/19 08:22	

LABORATORY CONTROL SAMPLE: 1596316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/kg	49	45.8	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596317 1596318

Parameter	Units	30277631007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/kg	42800	58.7	58.7	22400	26300	-34800	-28100	75-125	16	20	ML

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

QC Batch: 327944 | Analysis Method: EPA 8260C
QC Batch Method: EPA 5035A | Analysis Description: 8260C MSV 5035 Low
Associated Lab Samples: 30277631001, 30277631003, 30277631004, 30277631005, 30277631006

METHOD BLANK: 1596387 | Matrix: Solid
Associated Lab Samples: 30277631001, 30277631003, 30277631004, 30277631005, 30277631006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/kg	ND	0.0050	0.0015	01/24/19 11:44	
1,1-Dichloroethene	mg/kg	ND	0.0050	0.0019	01/24/19 11:44	
1,2-Dichloroethane	mg/kg	ND	0.0050	0.0013	01/24/19 11:44	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	0.0012	01/24/19 11:44	
Tetrachloroethene	mg/kg	ND	0.0050	0.0017	01/24/19 11:44	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	0.0013	01/24/19 11:44	
Trichloroethene	mg/kg	ND	0.0050	0.0015	01/24/19 11:44	
Vinyl chloride	mg/kg	ND	0.0050	0.0022	01/24/19 11:44	
1,2-Dichloroethane-d4 (S)	%.	86	74-131		01/24/19 11:44	
4-Bromofluorobenzene (S)	%.	102	70-133		01/24/19 11:44	
Dibromofluoromethane (S)	%.	95	71-130		01/24/19 11:44	
Toluene-d8 (S)	%.	100	76-124		01/24/19 11:44	

LABORATORY CONTROL SAMPLE: 1596388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	0.02	0.017	83	70-130	
1,1-Dichloroethene	mg/kg	0.02	0.016	79	70-130	
1,2-Dichloroethane	mg/kg	0.02	0.015	74	70-130	
cis-1,2-Dichloroethene	mg/kg	0.02	0.016	81	70-130	
Tetrachloroethene	mg/kg	0.02	0.020	98	70-130	
trans-1,2-Dichloroethene	mg/kg	0.02	0.016	81	70-130	
Trichloroethene	mg/kg	0.02	0.018	92	70-130	
Vinyl chloride	mg/kg	0.02	0.024	118	70-130	
1,2-Dichloroethane-d4 (S)	%.			86	74-131	
4-Bromofluorobenzene (S)	%.			104	70-133	
Dibromofluoromethane (S)	%.			97	71-130	
Toluene-d8 (S)	%.			99	76-124	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

QC Batch: 327943 | Analysis Method: EPA 8260C
QC Batch Method: EPA 5035A | Analysis Description: 8260CMSV 5035 Low Level
Associated Lab Samples: 30277631002

METHOD BLANK: 1596385 | Matrix: Solid
Associated Lab Samples: 30277631002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/kg	ND	0.0050	0.0015	01/24/19 11:44	
1,1-Dichloroethene	mg/kg	ND	0.0050	0.0019	01/24/19 11:44	
1,2-Dichloroethane	mg/kg	ND	0.0050	0.0013	01/24/19 11:44	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	0.0012	01/24/19 11:44	
Tetrachloroethene	mg/kg	ND	0.0050	0.0017	01/24/19 11:44	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	0.0013	01/24/19 11:44	
Trichloroethene	mg/kg	ND	0.0050	0.0015	01/24/19 11:44	
Vinyl chloride	mg/kg	ND	0.0050	0.0022	01/24/19 11:44	
1,2-Dichloroethane-d4 (S)	%.	86	74-131		01/24/19 11:44	
4-Bromofluorobenzene (S)	%.	102	70-133		01/24/19 11:44	
Dibromofluoromethane (S)	%.	95	71-130		01/24/19 11:44	
Toluene-d8 (S)	%.	100	76-124		01/24/19 11:44	

LABORATORY CONTROL SAMPLE: 1596386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	0.02	0.017	83	70-130	
1,1-Dichloroethene	mg/kg	0.02	0.016	79	70-130	
1,2-Dichloroethane	mg/kg	0.02	0.015	74	70-130	
cis-1,2-Dichloroethene	mg/kg	0.02	0.016	81	70-130	
Tetrachloroethene	mg/kg	0.02	0.020	98	70-130	
trans-1,2-Dichloroethene	mg/kg	0.02	0.016	81	70-130	
Trichloroethene	mg/kg	0.02	0.018	92	70-130	
Vinyl chloride	mg/kg	0.02	0.024	118	70-130	
1,2-Dichloroethane-d4 (S)	%.			86	74-131	
4-Bromofluorobenzene (S)	%.			104	70-133	
Dibromofluoromethane (S)	%.			97	71-130	
Toluene-d8 (S)	%.			99	76-124	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

QC Batch: 327871 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30277631001, 30277631002, 30277631003, 30277631004, 30277631005, 30277631006, 30277631007, 30277631008

SAMPLE DUPLICATE: 1596059

Parameter	Units	30277594001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.2	19.8	8	20	

SAMPLE DUPLICATE: 1596060

Parameter	Units	30277631001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.2	16.9	4	20	

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Greensburg, PA 15601
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QUALITY CONTROL DATA

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

QC Batch: 327822 | Analysis Method: EPA 9012B
QC Batch Method: EPA 9012B | Analysis Description: 9012B Cyanide
Associated Lab Samples: 30277631007, 30277631008

METHOD BLANK: 1595904 | Matrix: Solid
Associated Lab Samples: 30277631007, 30277631008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/kg	ND	1.0	0.13	01/23/19 18:15	

LABORATORY CONTROL SAMPLE: 1595905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/kg	6	5.5	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1595906 1595907

Parameter	Units	30277121001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/kg	ND	12.6	12.1	13.9	13.2	88	86	90-110	5	20	ML

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
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QUALIFIERS

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: 327943

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 327944

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
IS	The internal standard response is below criteria. Results may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former EPT Site-Soil IRM
Pace Project No.: 30277631

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30277631007	**AOC27-DS-1**	EPA 3050B	327918	EPA 6010C	327987
30277631008	**AOC27-DS-2**	EPA 3050B	327918	EPA 6010C	327987
30277631001	**Test Pit #1 (2.0-2.2')**	EPA 5035A	327944	EPA 8260C	327954
30277631003	**MH-22/MH-A6**	EPA 5035A	327944	EPA 8260C	327954
30277631004	**Test Pit #12 (1.4-1.6')**	EPA 5035A	327944	EPA 8260C	327954
30277631005	**Test Pit #13 (4.0-4.2')**	EPA 5035A	327944	EPA 8260C	327954
30277631006	**Test Pit #17 (3.6-3.8')**	EPA 5035A	327944	EPA 8260C	327954
30277631002	**Test Pit #9 (3.8-4.0')**	EPA 5035A	327943	EPA 8260C	327953
30277631001	**Test Pit #1 (2.0-2.2')**	ASTM D2974-87	327871		
30277631002	**Test Pit #9 (3.8-4.0')**	ASTM D2974-87	327871		
30277631003	**MH-22/MH-A6**	ASTM D2974-87	327871		
30277631004	**Test Pit #12 (1.4-1.6')**	ASTM D2974-87	327871		
30277631005	**Test Pit #13 (4.0-4.2')**	ASTM D2974-87	327871		
30277631006	**Test Pit #17 (3.6-3.8')**	ASTM D2974-87	327871		
30277631007	**AOC27-DS-1**	ASTM D2974-87	327871		
30277631008	**AOC27-DS-2**	ASTM D2974-87	327871		
30277631007	**AOC27-DS-1**	EPA 9012B	327822	EPA 9012B	327882
30277631008	**AOC27-DS-2**	EPA 9012B	327822	EPA 9012B	327882

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Pace Analytical
www.pacelabs.com

WO#: 30277631

30277631

I-OF-CUSTODY / Analytical Request Document

of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

2203769

Section A
Required Client Information:

Company:	WSP
Address:	11 STANWIX ST SUITE 1500 PITTSBURGH PA 15222
Email To:	DAVE.RYKACZEWSKI@WSP.com
Phone: 412-375-0232	Fax:
Requested Due Date/TAT:	1-DAY (3-day MAX)

Section C
Invoice Information:

Report To:	DAVE.RYKACZEWSKI@WSP.com
Copy To:	ERIN.MONTIEL@WSP.com
Purchase Order No.:	
Project Name:	FORMER EPT SITE
Project Number:	31401545.001
Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes
MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: 8260 VOCs*	Barium, Cyanide	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TEST PIT #1 (2.0-2.2')	SL	G	—	—	1/22/19	1100		1	X								X		001	cis-1,2-Dichloroethene
2	TEST PIT #9 (3.8-4.0')	SL	G	—	—	1/22/19	1120		1	X								X		002	1,1,1 Trichloroethane
3	MH-22 / MH-A6	SL	G	—	—	1/22/19	1135		1	X								X		003	trans-1,2 Dichloroethene
4	TEST PIT #12 (1.4-1.6')	SL	G	—	—	1/22/19	1155		1	X								X		004	1,1-Dichloroethane
5	TEST PIT #13 (4.0-4.2')	SL	G	—	—	1/22/19	1210		1	X								X		005	Trichloroethene
6	TEST PIT #17 (3.6-3.8')	SL	G	—	—	1/22/19	1225		1	X								X		006	Vinyl Chloride
7	AOC27-DS-1	SL	G	—	—	1/18/19	1120		1	X									X	007	cis-1,2 Dichloroethene
8	AOC27-DS-2	SL	G	—	—	1/18/19	1130		1	X									X	008	Tetrachloroethene
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	1/22/19	1500	[signature]	1/23/19	0950	1.1	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: NATE WINSTEL
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 1/22/19

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: WSP

Project # # 30277631

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 773654815896

Label SB
LIMS Login SB

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals Intact: ☑ yes ☐ no

Thermometer Used 11 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 1.3 °C Correction Factor: -0.2 °C Final Temp: 1.1 °C

Temp should be above freezing to 6°C

pH paper Lot#

Date and Initials of person examining contents: SB 1/23/19

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: SC	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):	✓			7. Unpres. VOC /Encore
Rush Turn Around Time Requested:	✓			8. 1day
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used:	✓			
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation.			✓	16.
All containers needing preservation are found to be in compliance with EPA recommendation.			✓	
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed SB / Date/time of preservation / Lot # of added preservative
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:		✓		18.
Trip Blank Custody Seals Present			✓	
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: / Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP Environment & Energy

Emersub 15, LLC, Ithaca, NY

31401545.001

SGS Job Number: JC76508

Sampling Date: 10/23/18

Report to:

WSP USA
7000 E. GENESEE STREET BUILDING D, 2ND FLOOR
FAYETTEVILLE, NY 13066
Amy.Romano@WSPGroup.com; Jeffrey.Baker@WSP.com

ATTN: Amy Romano

Total number of pages in report: 479

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A. Paul Ioannidis
General Manager

Client Service contact: Rocus Peters 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

WSP Environment & Energy

Job No: JC76508

Emersub 15, LLC, Ithaca, NY
Project No: 31401545.001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC76508-1	10/23/18	13:48	NTW	10/24/18	SO	Soil	MH-42A-102318

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	WSP Environment & Energy	**Job No**	JC76508
Site:	Emersub 15, LLC, Ithaca, NY	**Report Date**	10/26/2018 5:21:25 P

On 10/24/2018, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 0.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC76508 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260C

Matrix: SO **Batch ID:** VC8293

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC76497-1MS, JC76497-2DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 1,1-Dichloroethene, Methyl Acetate, Methyl Tert Butyl Ether, trans-1,2-Dichloroethene are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for Duplicate for Acetone, Benzene, Cyclohexane, Methylcyclohexane are outside control limits for sample JC76497-2DUP. Outside control limits due to sample non-homogeneity.
- JC76508-1: Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
- JC76508-1 for 4-Bromofluorobenzene: Outside control limits due to matrix interference.

Matrix: SO **Batch ID:** VD10499

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC76425-1MS, JC76425-1MSD were used as the QC samples indicated.
- JC76508-1: Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

Metals Analysis By Method SW846 6010D

Matrix: SO **Batch ID:** MP9853

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC76479-1MSD, JC76479-1SDL, JC76479-1MS were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Cadmium are outside control limits for sample MP9853-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 7471B

Matrix: SO **Batch ID:** MP9868

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC76495-1MS, JC76495-1MSD were used as the QC samples for metals.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO	Batch ID: GN87429

- Sample(s) JC76387-1DUP were used as the QC samples for Solids, Percent.

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO	Batch ID: GP16854

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC76263-5MS, JC76263-5DUP were used as the QC samples for Cyanide.
- RPD(s) for Duplicate for Cyanide are outside control limits for sample GP16854-D1. RPD acceptable due to low duplicate and sample concentrations.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JC76508
Account: WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Collected: 10/23/18

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC76508-1	**MH-42A-102318**					
Acetone [a]		3130	66	33	ug/kg	SW846 8260C
2-Butanone (MEK) [a]		243	66	25	ug/kg	SW846 8260C
Carbon disulfide [a]		7150	1400	640	ug/kg	SW846 8260C
Ethylbenzene [a]		4.9 J	6.6	3.7	ug/kg	SW846 8260C
2-Hexanone [a]		11.9 J	33	8.4	ug/kg	SW846 8260C
4-Methyl-2-pentanone(MIBK) [a]		17.2 J	33	10	ug/kg	SW846 8260C
Toluene [a]		11.6	6.6	2.5	ug/kg	SW846 8260C
Xylene (total) [a]		14.6	6.6	3.9	ug/kg	SW846 8260C
Arsenic		19.8	14	2.0	mg/kg	SW846 6010D
Barium		313	140	14	mg/kg	SW846 6010D
Cadmium		19.8	3.6	0.50	mg/kg	SW846 6010D
Chromium		739	7.2	2.6	mg/kg	SW846 6010D
Lead		67.2	14	2.9	mg/kg	SW846 6010D
Selenium		4.9 J	14	4.7	mg/kg	SW846 6010D

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	MH-42A-102318		
Lab Sample ID:	JC76508-1	**Date Sampled:**	10/23/18
Matrix:	SO - Soil	**Date Received:**	10/24/18
Method:	SW846 8260C SW846 5035	**Percent Solids:**	13.7
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	C223290.D	1	10/25/18 11:56	PS	10/24/18 11:00	n/a	VC8293
Run #2 [a]	D260139.D	1	10/24/18 18:34	TDN	10/24/18 11:00	n/a	VD10499

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.5 g		
Run #2	9.9 g	10.0 ml	100 ul

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	3130	66	33	ug/kg	
71-43-2	Benzene	ND	3.3	2.5	ug/kg	
75-27-4	Bromodichloromethane	ND	13	2.9	ug/kg	
75-25-2	Bromoform	ND	33	2.7	ug/kg	
74-83-9	Bromomethane	ND	33	6.6	ug/kg	
78-93-3	2-Butanone (MEK)	243	66	25	ug/kg	
75-15-0	Carbon disulfide	7150 [b]	1400	640	ug/kg	
56-23-5	Carbon tetrachloride	ND	13	3.6	ug/kg	
108-90-7	Chlorobenzene	ND	13	2.3	ug/kg	
75-00-3	Chloroethane	ND	33	4.6	ug/kg	
67-66-3	Chloroform	ND	13	2.5	ug/kg	
74-87-3	Chloromethane	ND	33	13	ug/kg	
110-82-7	Cyclohexane	ND	13	2.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	5.5	ug/kg	
124-48-1	Dibromochloromethane	ND	13	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.6	2.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.6	2.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.6	2.4	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.6	2.3	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	33	4.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.6	2.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.6	3.1	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.6	4.4	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.6	6.4	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.6	4.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	13	2.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	13	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	13	2.2	ug/kg	
100-41-4	Ethylbenzene	4.9	6.6	3.7	ug/kg	J
76-13-1	Freon 113	ND	33	5.1	ug/kg	
591-78-6	2-Hexanone	11.9	33	8.4	ug/kg	J
98-82-8	Isopropylbenzene	ND	13	4.6	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-42A-102318		
Lab Sample ID:	JC76508-1	**Date Sampled:**	10/23/18
Matrix:	SO - Soil	**Date Received:**	10/24/18
Method:	SW846 8260C SW846 5035	**Percent Solids:**	13.7
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	33	9.2	ug/kg	
108-87-2	Methylcyclohexane	ND	13	4.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.6	2.3	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	17.2	33	10	ug/kg	J
75-09-2	Methylene chloride	ND	33	17	ug/kg	
100-42-5	Styrene	ND	13	3.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	13	2.6	ug/kg	
127-18-4	Tetrachloroethene	ND	13	3.1	ug/kg	
108-88-3	Toluene	11.6	6.6	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	33	6.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	13	2.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	13	2.3	ug/kg	
79-01-6	Trichloroethene	ND	6.6	5.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	33	4.5	ug/kg	
75-01-4	Vinyl chloride	ND	13	3.1	ug/kg	
1330-20-7	Xylene (total)	14.6	6.6	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	91%	75-127%
17060-07-0	1,2-Dichloroethane-D4	107%	99%	75-130%
2037-26-5	Toluene-D8	104%	91%	80-120%
460-00-4	4-Bromofluorobenzene	136% [c]	98%	79-127%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
(b) Result is from Run# 2
(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-42A-102318		
Lab Sample ID:	JC76508-1	**Date Sampled:**	10/23/18
Matrix:	SO - Soil	**Date Received:**	10/24/18
		Percent Solids:	13.7
Project:	Emersub 15, LLC, Ithaca, NY		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	19.8	14	2.0	mg/kg	1	10/24/18	10/25/18	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	313	140	14	mg/kg	1	10/24/18	10/25/18	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	19.8	3.6	0.50	mg/kg	1	10/24/18	10/25/18	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	739	7.2	2.6	mg/kg	1	10/24/18	10/25/18	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	67.2	14	2.9	mg/kg	1	10/24/18	10/25/18	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.11 U	0.24	0.11	mg/kg	1	10/25/18	10/25/18	GT	SW846 7471B [1]	SW846 7471B [4]
Selenium	4.9 J	14	4.7	mg/kg	1	10/24/18	10/25/18	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	1.2 U	3.6	1.2	mg/kg	1	10/24/18	10/25/18	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA45511
(2) Instrument QC Batch: MA45520
(3) Prep QC Batch: MP9853
(4) Prep QC Batch: MP9868

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

SGS North America Inc.

Report of Analysis

Client Sample ID:	MH-42A-102318		
Lab Sample ID:	JC76508-1	**Date Sampled:**	10/23/18
Matrix:	SO - Soil	**Date Received:**	10/24/18
		Percent Solids:	13.7
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.81 U	1.6	0.81	mg/kg	1	10/25/18 15:55	BM	SW846 9012B/LACHAT
Solids, Percent	13.7			%	1	10/24/18 15:00	SF	SM2540 G 18TH ED MOD

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

SGS

SL
SLL

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

PAGE 1 OF 1 L

FED-EX Tracking # 4636 0057 0723
Bottle Order Control #
SGS Quote #
SGS Job # JC76508

Client / Reporting Information

Company Name: WSP
Street Address: 11 Stanwix Street, Suite 950
City: Pittsburgh State: PA Zip: 15222
Project Contact: Dave Rybarzewski E-mail: Dave.Rybarzewski@wsp.com
Phone #: 412-418-0140 Fax #:
Sampler(s) Name(s): Dan Cumming Phone #: 571-329-1255

Project Information

Project Name: Emerson 15, LLC
Street: 620 South Aurora Street
City: Ithaca State: NY
Project #: 31401545.001
Client Purchase Order #:
Project Manager: Rocus Peters

Billing Information (if different from Report to)

Company Name: WSP
Street Address: 13530 Dulles Technology Drive
City: Herndon State: VA Zip: 20171
Attention: Environment Accounts Payable

Requested Analysis (see TEST CODE sheet)

VOCs (8620), TCL
RCRA Metals
2

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Lab Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOCs (8620), TCL	RCRA Metals	2	LAB USE ONLY
1	MH-42A-102318		10/23/18	1348	NTW	SL	2					2				X	X	X	C32 T4 811 14C4 4051

Turnaround Time (Business days)

- Std. 10 Business Days
- 5 Day RUSH
- 3 Day RUSH
- 2 Day RUSH
- [x] 1 Day RUSH
- other

Approved by (SGS Project Manager)/Date: Rocus Peters

Emergency & Rush T/A data available via LabLink

Data Deliverable Information

- Commercial "A" (Level 1)
- Commercial "B" (Level 2)
- FULLT1 (Level 3+4)
- NJ Reduced
- Commercial "C"
- *NJ Data of Known Quality Protocol Reporting*
- NYASP Category A
- [x] NYASP Category B
- State Forms
- EDD Format
- Other

Commercial "A" = Results Only; Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Initial Assessment 3538
Label Verification
Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	10/23/18 1730	1 FedEx	2 FED EX	10/24/18 1030	2
3		3	4		4
5		5			

Custody Seal # 13968 [x] Intact [ ] Not intact
Preserved where applicable [ ]
On Ice [x]
Cooler Temp. 1.3° MP

Form:SM088-03C (revised 2/12/18)

http://www.sgs.com/en/terms-and-conditions.

5.1 5

JC76508: Chain of Custody
Page 1 of 3

SGS Sample Receipt Summary

Job Number: JC76508 **Client:** WSP **Project:** Emersub 15, LLC

Date / Time Received: 10/24/2018 10:00:00 AM **Delivery Method:** FedEx **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (1.3);

Cooler Temps (Corrected) °C: Cooler 1: (0.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 216017 pH 12+: 208717 Other: (Specify) _____ _____

Comments -1: Lab to prep from intact soil volume for low level voc analysis within hold time.

SM089-03
Rev. Date 12/7/17

JC76508: Chain of Custody
Page 2 of 3

Responded to by: CSR: N/A

Response Date: Response Date: 10/24/2018

Response:

Response: Proceed with analysis

JC76508: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

WSP Environment & Energy

Job No: JC76508

Emersub 15, LLC, Ithaca, NY
Project No: 31401545.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC76508-1	Collected: 23-OCT-18 13:48 By: NTW		Received: 24-OCT-18 By: DG			
MH-42A-102318						
JC76508-1	SM2540 G 18TH ED MOD	24-OCT-18 15:00	SF			SOL104
JC76508-1	SW846 8260C	24-OCT-18 18:34	TDN			V8260TCL42
JC76508-1	SW846 6010D	25-OCT-18 07:44	ND	24-OCT-18	CH	AG,AS,BA,CD,CR,PB,SE
JC76508-1	SW846 7471B	25-OCT-18 10:34	GT	25-OCT-18	GT	HG
JC76508-1	SW846 8260C	25-OCT-18 11:56	PS			V8260TCL42
JC76508-1	SW846 9012B/LACHAT	25-OCT-18 15:55	BM	25-OCT-18	BM	CN

SGS Internal Chain of Custody

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Received: 10/24/18

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC76508-1.1	Secured Storage	Sahara Feliciano	10/24/18 12:58	Retrieve from Storage
JC76508-1.1	Secured Storage	Todd Shoemaker	10/24/18 14:12	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC76508-1.1	Todd Shoemaker	Secured Staging Area	10/24/18 14:12	Return to Storage
JC76508-1.1	Secured Staging Area	Colleen Hill	10/24/18 14:21	Retrieve from Storage
JC76508-1.1	Colleen Hill	Secured Storage	10/24/18 16:29	Return to Storage
JC76508-1.1	Secured Storage	Matthew Robbins	10/24/18 16:51	Retrieve from Storage
JC76508-1.1	Matthew Robbins	Secured Staging Area	10/24/18 16:51	Return to Storage
JC76508-1.1	Secured Storage	Matthew Robbins	10/24/18 16:53	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC76508-1.1	Matthew Robbins	Secured Staging Area	10/24/18 16:53	Return to Storage
JC76508-1.1	Secured Staging Area	Bhooma Patel	10/25/18 06:42	Retrieve from Storage
JC76508-1.1	Bhooma Patel	Secured Storage	10/25/18 09:02	Return to Storage
JC76508-1.1	Secured Storage	Dwayne Johnson	10/25/18 13:27	Retrieve from Storage
JC76508-1.1	Dwayne Johnson	Secured Staging Area	10/25/18 13:28	Return to Storage
JC76508-1.1.1	Colleen Hill	Metals Digestion	10/24/18 15:21	Digestate from JC76508-1.1
JC76508-1.1.1	Metals Digestion	Colleen Hill	10/24/18 15:22	Digestate from JC76508-1.1
JC76508-1.1.1	Colleen Hill	Metals Digestate Storage	10/24/18 15:22	Return to Storage
JC76508-1.2	Secured Storage	Jayna Patel	10/24/18 11:43	Retrieve from Storage
JC76508-1.2	Jayna Patel	Secured Storage	10/24/18 11:43	Return to Storage
JC76508-1.2	Secured Storage	Jayna Patel	10/25/18 08:27	Retrieve from Storage
JC76508-1.2	Jayna Patel	Secured Storage	10/25/18 08:29	Return to Storage
JC76508-1.3	Secured Storage	Thien Nguyen	10/24/18 13:23	Retrieve from Storage
JC76508-1.3	Thien Nguyen	Secured Storage	10/24/18 13:23	Return to Storage
JC76508-1.4	Secured Storage	Thien Nguyen	10/25/18 08:38	Retrieve from Storage
JC76508-1.4	Thien Nguyen		10/25/18 08:38	Broken
JC76508-1.5	Secured Storage	Thien Nguyen	10/25/18 08:38	Retrieve from Storage
JC76508-1.5	Thien Nguyen		10/25/18 08:38	Broken
JC76508-1.6	Secured Storage	Prashant Shukla	10/25/18 10:15	Retrieve from Storage
JC76508-1.6	Prashant Shukla	GCMSC	10/25/18 10:15	Load on Instrument
JC76508-1.6	GCMSC	Prashant Shukla	10/26/18 07:40	Unload from Instrument
JC76508-1.6	Prashant Shukla		10/26/18 07:40	Depleted

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD10499-MB	D260121.D	1	10/24/18	TDN	n/a	n/a	VD10499

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC76508-1

CAS No.	Compound	Result	RL	MDL	Units	Q
75-15-0	Carbon disulfide	ND	100	46	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	75-127%
17060-07-0	1,2-Dichloroethane-D4	103%	75-130%
2037-26-5	Toluene-D8	90%	80-120%
460-00-4	4-Bromofluorobenzene	101%	79-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC8293-MB	C223287.D	1	10/25/18	PS	n/a	n/a	VC8293

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC76508-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/kg	
71-43-2	Benzene	ND	0.50	0.38	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.44	ug/kg	
75-25-2	Bromoform	ND	5.0	0.40	ug/kg	
74-83-9	Bromomethane	ND	5.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.55	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.35	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.69	ug/kg	
67-66-3	Chloroform	ND	2.0	0.37	ug/kg	
74-87-3	Chloromethane	ND	5.0	2.0	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.41	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.84	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.34	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.31	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.36	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.34	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.64	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.39	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.47	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.96	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.67	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.41	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.35	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.33	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.55	ug/kg	
76-13-1	Freon 113	ND	5.0	0.76	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.70	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.71	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.6	ug/kg	
75-09-2	Methylene chloride	ND	5.0	2.5	ug/kg	

Method Blank Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC8293-MB	C223287.D	1	10/25/18	PS	n/a	n/a	VC8293

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC76508-1

CAS No.	Compound	Result	RL	MDL	Units	Q
100-42-5	Styrene	ND	2.0	0.58	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.39	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.46	ug/kg	
108-88-3	Toluene	ND	1.0	0.38	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.43	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.34	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.76	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.68	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.47	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	92%	75-127%
17060-07-0	1,2-Dichloroethane-D4	98%	75-130%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	102%	79-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.94	54	ug/kg	J
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD10499-BS	D260119.D	1	10/24/18	TDN	n/a	n/a	VD10499

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC76508-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
75-15-0	Carbon disulfide	2500	2600	104	66-140

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	75-127%
17060-07-0	1,2-Dichloroethane-D4	102%	75-130%
2037-26-5	Toluene-D8	90%	80-120%
460-00-4	4-Bromofluorobenzene	95%	79-127%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC8293-BS	C223285.D	1	10/25/18	PS	n/a	n/a	VC8293

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC76508-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	233	117	48-149
71-43-2	Benzene	50	48.9	98	74-117
75-27-4	Bromodichloromethane	50	50.8	102	78-119
75-25-2	Bromoform	50	55.3	111	76-130
74-83-9	Bromomethane	50	41.8	84	58-137
78-93-3	2-Butanone (MEK)	200	225	113	65-143
56-23-5	Carbon tetrachloride	50	48.5	97	69-136
108-90-7	Chlorobenzene	50	47.6	95	79-117
75-00-3	Chloroethane	50	48.3	97	62-139
67-66-3	Chloroform	50	48.2	96	76-119
74-87-3	Chloromethane	50	49.8	100	52-144
110-82-7	Cyclohexane	50	50.4	101	64-136
96-12-8	1,2-Dibromo-3-chloropropane	50	56.8	114	72-124
124-48-1	Dibromochloromethane	50	51.2	102	78-122
106-93-4	1,2-Dibromoethane	50	51.8	104	80-116
95-50-1	1,2-Dichlorobenzene	50	48.5	97	77-117
541-73-1	1,3-Dichlorobenzene	50	47.6	95	75-117
106-46-7	1,4-Dichlorobenzene	50	47.0	94	76-115
75-71-8	Dichlorodifluoromethane	50	52.1	104	43-156
75-34-3	1,1-Dichloroethane	50	49.2	98	75-124
107-06-2	1,2-Dichloroethane	50	49.1	98	74-124
75-35-4	1,1-Dichloroethene	50	49.4	99	64-129
156-59-2	cis-1,2-Dichloroethene	50	47.6	95	74-118
156-60-5	trans-1,2-Dichloroethene	50	51.3	103	71-125
78-87-5	1,2-Dichloropropane	50	50.4	101	80-119
10061-01-5	cis-1,3-Dichloropropene	50	52.8	106	80-119
10061-02-6	trans-1,3-Dichloropropene	50	50.3	101	78-119
100-41-4	Ethylbenzene	50	48.3	97	75-118
76-13-1	Freon 113	50	45.3	91	60-181
591-78-6	2-Hexanone	200	242	121	63-138
98-82-8	Isopropylbenzene	50	48.6	97	74-122
79-20-9	Methyl Acetate	50	59.7	119	61-140
108-87-2	Methylcyclohexane	50	52.2	104	67-136
1634-04-4	Methyl Tert Butyl Ether	50	51.1	102	75-123
108-10-1	4-Methyl-2-pentanone(MIBK)	200	240	120	73-136
75-09-2	Methylene chloride	50	42.7	85	73-120

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC8293-BS	C223285.D	1	10/25/18	PS	n/a	n/a	VC8293

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC76508-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
100-42-5	Styrene	50	51.5	103	78-120
79-34-5	1,1,2,2-Tetrachloroethane	50	51.6	103	72-120
127-18-4	Tetrachloroethene	50	47.5	95	69-128
108-88-3	Toluene	50	47.0	94	74-117
120-82-1	1,2,4-Trichlorobenzene	50	49.3	99	73-132
71-55-6	1,1,1-Trichloroethane	50	49.6	99	73-131
79-00-5	1,1,2-Trichloroethane	50	50.2	100	79-117
79-01-6	Trichloroethene	50	48.0	96	80-120
75-69-4	Trichlorofluoromethane	50	46.5	93	63-141
75-01-4	Vinyl chloride	50	46.6	93	55-145
1330-20-7	Xylene (total)	150	146	97	76-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	75-127%
17060-07-0	1,2-Dichloroethane-D4	105%	75-130%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	101%	79-127%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC76497-1MS	C223291.D	1	10/25/18	PS	n/a	n/a	VC8293
JC76497-1	C223288.D	1	10/25/18	PS	n/a	n/a	VC8293

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC76508-1

CAS No.	Compound	JC76497-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	14.7		184	236	121	10-157
71-43-2	Benzene	ND		45.9	56.4	123	58-125
75-27-4	Bromodichloromethane	ND		45.9	56.0	122	57-128
75-25-2	Bromoform	ND		45.9	50.5	110	48-133
74-83-9	Bromomethane	ND		45.9	47.7	104	31-141
78-93-3	2-Butanone (MEK)	ND		184	204	111	29-146
56-23-5	Carbon tetrachloride	ND		45.9	56.3	123	51-143
108-90-7	Chlorobenzene	ND		45.9	49.0	107	54-130
75-00-3	Chloroethane	ND		45.9	52.3	114	22-153
67-66-3	Chloroform	ND		45.9	56.1	122	61-125
74-87-3	Chloromethane	ND		45.9	54.0	118	43-142
110-82-7	Cyclohexane	ND		45.9	53.5	117	37-148
96-12-8	1,2-Dibromo-3-chloropropane	ND		45.9	46.1	100	41-127
124-48-1	Dibromochloromethane	ND		45.9	52.2	114	56-127
106-93-4	1,2-Dibromoethane	ND		45.9	52.4	114	54-121
95-50-1	1,2-Dichlorobenzene	ND		45.9	40.0	87	41-134
541-73-1	1,3-Dichlorobenzene	ND		45.9	39.9	87	41-135
106-46-7	1,4-Dichlorobenzene	ND		45.9	39.2	85	41-133
75-71-8	Dichlorodifluoromethane	ND		45.9	49.1	107	30-153
75-34-3	1,1-Dichloroethane	ND		45.9	59.2	129	61-131
107-06-2	1,2-Dichloroethane	ND		45.9	52.5	114	56-126
75-35-4	1,1-Dichloroethene	ND		45.9	62.8	137* [a]	53-132
156-59-2	cis-1,2-Dichloroethene	ND		45.9	56.3	123	57-125
156-60-5	trans-1,2-Dichloroethene	ND		45.9	62.0	135* [a]	56-130
78-87-5	1,2-Dichloropropane	ND		45.9	56.1	122	63-126
10061-01-5	cis-1,3-Dichloropropene	ND		45.9	53.6	117	55-126
10061-02-6	trans-1,3-Dichloropropene	ND		45.9	49.1	107	51-126
100-41-4	Ethylbenzene	ND		45.9	50.0	109	49-132
76-13-1	Freon 113	ND		45.9	55.2	120	42-179
591-78-6	2-Hexanone	ND		184	222	121	25-150
98-82-8	Isopropylbenzene	ND		45.9	46.6	102	43-141
79-20-9	Methyl Acetate	ND		45.9	87.5	191* [a]	32-158
108-87-2	Methylcyclohexane	ND		45.9	43.1	94	22-158
1634-04-4	Methyl Tert Butyl Ether	ND		45.9	58.3	127* [a]	58-123
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		184	229	125	40-140
75-09-2	Methylene chloride	ND		45.9	50.9	111	57-123

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC76497-1MS	C223291.D	1	10/25/18	PS	n/a	n/a	VC8293
JC76497-1	C223288.D	1	10/25/18	PS	n/a	n/a	VC8293

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC76508-1

CAS No.	Compound	JC76497-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
100-42-5	Styrene	ND		45.9	50.7	110	46-139
79-34-5	1,1,2,2-Tetrachloroethane	ND		45.9	44.0	96	44-127
127-18-4	Tetrachloroethene	ND		45.9	47.7	104	39-154
108-88-3	Toluene	ND		45.9	51.9	113	54-127
120-82-1	1,2,4-Trichlorobenzene	ND		45.9	27.7	60	19-153
71-55-6	1,1,1-Trichloroethane	ND		45.9	59.0	129	57-138
79-00-5	1,1,2-Trichloroethane	ND		45.9	52.2	114	53-127
79-01-6	Trichloroethene	ND		45.9	58.5	127	52-140
75-69-4	Trichlorofluoromethane	ND		45.9	52.3	114	46-142
75-01-4	Vinyl chloride	ND		45.9	52.2	114	43-146
1330-20-7	Xylene (total)	ND		138	149	108	46-137

CAS No.	Surrogate Recoveries	MS	JC76497-1	Limits
1868-53-7	Dibromofluoromethane	100%	99%	75-127%
17060-07-0	1,2-Dichloroethane-D4	99%	105%	75-130%
2037-26-5	Toluene-D8	98%	97%	80-120%
460-00-4	4-Bromofluorobenzene	102%	104%	79-127%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC76425-1MS	D260129.D	1	10/24/18	TDN	n/a	n/a	VD10499
JC76425-1MSD	D260130.D	1	10/24/18	TDN	n/a	n/a	VD10499
JC76425-1	D260123.D	1	10/24/18	TDN	n/a	n/a	VD10499

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC76508-1

CAS No.	Compound	JC76425-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
75-15-0	Carbon disulfide	ND		4330	4540	105	4330	4080	94	11	47-145/24

CAS No.	Surrogate Recoveries	MS	MSD	JC76425-1	Limits
1868-53-7	Dibromofluoromethane	87%	85%	91%	75-127%
17060-07-0	1,2-Dichloroethane-D4	94%	93%	102%	75-130%
2037-26-5	Toluene-D8	91%	90%	90%	80-120%
460-00-4	4-Bromofluorobenzene	92%	93%	99%	79-127%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC76497-2DUP	C223293.D	1	10/25/18	PS	n/a	n/a	VC8293
JC76497-2	C223289.D	1	10/25/18	PS	n/a	n/a	VC8293

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC76508-1

CAS No.	Compound	JC76497-2 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	322		22.0		174* [a]	40
71-43-2	Benzene	0.96		ND		200* [a]	30
75-27-4	Bromodichloromethane	ND		ND		nc	30
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	30
78-93-3	2-Butanone (MEK)	ND		ND		nc	30
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	30
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
110-82-7	Cyclohexane	1.1		ND		200* [a]	30
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	30
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	30
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	30
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	30
107-06-2	1,2-Dichloroethane	ND		ND		nc	30
75-35-4	1,1-Dichloroethene	ND		ND		nc	30
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	30
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	30
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	30
76-13-1	Freon 113	ND		ND		nc	30
591-78-6	2-Hexanone	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	30
79-20-9	Methyl Acetate	ND		ND		nc	30
108-87-2	Methylcyclohexane	2.2		ND		200* [a]	30
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	30
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	36

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC76497-2DUP	C223293.D	1	10/25/18	PS	n/a	n/a	VC8293
JC76497-2	C223289.D	1	10/25/18	PS	n/a	n/a	VC8293

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC76508-1

CAS No.	Compound	JC76497-2 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
100-42-5	Styrene	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	24
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	30
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
1330-20-7	Xylene (total)	ND		ND		nc	33

CAS No.	Surrogate Recoveries	DUP	JC76497-2	Limits
1868-53-7	Dibromofluoromethane	100%	97%	75-127%
17060-07-0	1,2-Dichloroethane-D4	109%	104%	75-130%
2037-26-5	Toluene-D8	96%	96%	80-120%
460-00-4	4-Bromofluorobenzene	102%	102%	79-127%

(a) Outside control limits due to sample non-homogeneity.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: VC8261-BFB
Lab File ID: C222631.D
Instrument ID: GCMSC
Injection Date: 08/11/18
Injection Time: 12:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	25410	20.0		Pass
75	30.0 - 60.0% of mass 95	63698	50.0		Pass
95	Base peak, 100% relative abundance	127272	100.0		Pass
96	5.0 - 9.0% of mass 95	8779	6.90		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	103213	81.1		Pass
175	5.0 - 9.0% of mass 174	8835	6.94	(8.56) [a]	Pass
176	95.0 - 101.0% of mass 174	100976	79.3	(97.8) [a]	Pass
177	5.0 - 9.0% of mass 176	6690	5.26	(6.63) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC8261-IC8261	C222632.D	08/11/18	13:23	00:53	Initial cal 0.5
VC8261-IC8261	C222633.D	08/11/18	13:52	01:22	Initial cal 1
VC8261-IC8261	C222634.D	08/11/18	14:22	01:52	Initial cal 2
VC8261-IC8261	C222635.D	08/11/18	14:51	02:21	Initial cal 4
VC8261-IC8261	C222636.D	08/11/18	15:20	02:50	Initial cal 8
VC8261-IC8261	C222637.D	08/11/18	15:49	03:19	Initial cal 20
VC8261-ICC8261	C222638.D	08/11/18	16:18	03:48	Initial cal 50
VC8261-IC8261	C222639.D	08/11/18	16:47	04:17	Initial cal 100
VC8261-IC8261	C222640.D	08/11/18	17:16	04:46	Initial cal 200
VC8261-ICV8261	C222643.D	08/11/18	18:43	06:13	Initial cal verification 50
VC8261-ICV8261	C222644.D	08/11/18	19:12	06:42	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: VC8261-BFB2
Lab File ID: C222646.D
Instrument ID: GCMSC
Injection Date: 08/13/18
Injection Time: 14:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	28381	20.5		Pass
75	30.0 - 60.0% of mass 95	69221	50.0		Pass
95	Base peak, 100% relative abundance	138501	100.0		Pass
96	5.0 - 9.0% of mass 95	9355	6.75		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	110466	79.8		Pass
175	5.0 - 9.0% of mass 174	9398	6.79	(8.51) [a]	Pass
176	95.0 - 101.0% of mass 174	107773	77.8	(97.6) [a]	Pass
177	5.0 - 9.0% of mass 176	7035	5.08	(6.53) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC8261-ICV8261	C222647.D	08/13/18	14:58	00:43	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: VC8293-BFB
Lab File ID: C223284.D
Instrument ID: GCMSC
Injection Date: 10/25/18
Injection Time: 08:35

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	31973	20.9		Pass
75	30.0 - 60.0% of mass 95	77397	50.6		Pass
95	Base peak, 100% relative abundance	152821	100.0		Pass
96	5.0 - 9.0% of mass 95	10410	6.81		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	114840	75.1		Pass
175	5.0 - 9.0% of mass 174	9411	6.16	(8.19) [a]	Pass
176	95.0 - 101.0% of mass 174	111067	72.7	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	7456	4.88	(6.71) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC8293-CC8261	C223284.D	10/25/18	08:35	00:00	Continuing cal 50
VC8293-BS	C223285.D	10/25/18	09:17	00:42	Blank Spike
VC8293-MB	C223287.D	10/25/18	10:29	01:54	Method Blank
JC76497-1	C223288.D	10/25/18	10:58	02:23	(used for QC only; not part of job JC76508)
JC76497-2	C223289.D	10/25/18	11:27	02:52	(used for QC only; not part of job JC76508)
JC76508-1	C223290.D	10/25/18	11:56	03:21	MH-42A-102318
JC76497-1MS	C223291.D	10/25/18	12:25	03:50	Matrix Spike
JC76497-2DUP	C223293.D	10/25/18	13:23	04:48	Duplicate
ZZZZZZ	C223294.D	10/25/18	13:52	05:17	(unrelated sample)
ZZZZZZ	C223295.D	10/25/18	14:22	05:47	(unrelated sample)
ZZZZZZ	C223296.D	10/25/18	14:51	06:16	(unrelated sample)
ZZZZZZ	C223297.D	10/25/18	15:20	06:45	(unrelated sample)
ZZZZZZ	C223298.D	10/25/18	15:50	07:15	(unrelated sample)
ZZZZZZ	C223299.D	10/25/18	16:18	07:43	(unrelated sample)
ZZZZZZ	C223300.D	10/25/18	16:48	08:13	(unrelated sample)
ZZZZZZ	C223301.D	10/25/18	17:17	08:42	(unrelated sample)
ZZZZZZ	C223302.D	10/25/18	17:46	09:11	(unrelated sample)
ZZZZZZ	C223303.D	10/25/18	18:16	09:41	(unrelated sample)
ZZZZZZ	C223304.D	10/25/18	18:45	10:10	(unrelated sample)
ZZZZZZ	C223305.D	10/25/18	19:14	10:39	(unrelated sample)
ZZZZZZ	C223306.D	10/25/18	19:44	11:09	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: VD10401-BFB
Lab File ID: D257654.D
Instrument ID: GCMSD
Injection Date: 06/06/18
Injection Time: 17:20

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	9407	18.9		Pass
75	30.0 - 60.0% of mass 95	24560	49.4		Pass
95	Base peak, 100% relative abundance	49685	100.0		Pass
96	5.0 - 9.0% of mass 95	3258	6.56		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 150.0% of mass 95	39549	79.6		Pass
175	5.0 - 9.0% of mass 174	3088	6.22	(7.81) [a]	Pass
176	95.0 - 101.0% of mass 174	39338	79.2	(99.5) [a]	Pass
177	5.0 - 9.0% of mass 176	2595	5.22	(6.60) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VD10401-IC10401	D257655.D	06/06/18	17:59	00:39	Initial cal 0.5
VD10401-IC10401	D257656.D	06/06/18	18:29	01:09	Initial cal 1
VD10401-IC10401	D257657.D	06/06/18	18:59	01:39	Initial cal 2
VD10401-IC10401	D257658.D	06/06/18	19:28	02:08	Initial cal 4
VD10401-IC10401	D257659.D	06/06/18	19:58	02:38	Initial cal 8
VD10401-IC10401	D257660.D	06/06/18	20:27	03:07	Initial cal 20
VD10401-ICC10401	D257661.D	06/06/18	20:57	03:37	Initial cal 50
VD10401-IC10401	D257662.D	06/06/18	21:27	04:07	Initial cal 100
VD10401-IC10401	D257663.D	06/06/18	21:56	04:36	Initial cal 200
VD10401-ICV10401	D257666.D	06/06/18	23:25	06:05	Initial cal verification 50
VD10401-ICV10401	D257667.D	06/06/18	23:55	06:35	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: VD10499-BFB
Lab File ID: D260117.D
Instrument ID: GCMSD
Injection Date: 10/24/18
Injection Time: 08:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	6116	19.6		Pass
75	30.0 - 60.0% of mass 95	15929	51.1		Pass
95	Base peak, 100% relative abundance	31179	100.0		Pass
96	5.0 - 9.0% of mass 95	2206	7.08		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 150.0% of mass 95	27949	89.6		Pass
175	5.0 - 9.0% of mass 174	2239	7.18	(8.01) [a]	Pass
176	95.0 - 101.0% of mass 174	26955	86.5	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	1755	5.63	(6.51) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VD10499-CC10401	D260117.D	10/24/18	08:00	00:00	Continuing cal 50
VD10499-BS	D260119.D	10/24/18	09:04	01:04	Blank Spike
VD10499-MB	D260121.D	10/24/18	10:01	02:01	Method Blank
ZZZZZZ	D260121A.D	10/24/18	10:01	02:01	(unrelated sample)
ZZZZZZ	D260122.D	10/24/18	10:29	02:29	(unrelated sample)
JC76425-1	D260123.D	10/24/18	10:58	02:58	(used for QC only; not part of job JC76508)
ZZZZZZ	D260124.D	10/24/18	11:26	03:26	(unrelated sample)
ZZZZZZ	D260125.D	10/24/18	11:54	03:54	(unrelated sample)
ZZZZZZ	D260126.D	10/24/18	12:23	04:23	(unrelated sample)
ZZZZZZ	D260127.D	10/24/18	12:51	04:51	(unrelated sample)
ZZZZZZ	D260128.D	10/24/18	13:20	05:20	(unrelated sample)
JC76425-1MS	D260129.D	10/24/18	13:48	05:48	Matrix Spike
JC76425-1MSD	D260130.D	10/24/18	14:17	06:17	Matrix Spike Duplicate
ZZZZZZ	D260132.D	10/24/18	15:14	07:14	(unrelated sample)
ZZZZZZ	D260134.D	10/24/18	16:11	08:11	(unrelated sample)
ZZZZZZ	D260135.D	10/24/18	16:40	08:40	(unrelated sample)
JC76508-1	D260139.D	10/24/18	18:34	10:34	MH-42A-102318

Internal Standard Area Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Check Std:	VC8293-CC8261	**Injection Date:**	10/25/18
Lab File ID:	C223284.D	**Injection Time:**	08:35
Instrument ID:	GCMSC	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	116386	8.37	352902	11.09	538598	12.05	503067	15.08	262989	17.12
Upper Limit [a]	232772	8.87	705804	11.59	1077196	12.55	1006134	15.58	525978	17.62
Lower Limit [b]	58193	7.87	176451	10.59	269299	11.55	251534	14.58	131495	16.62

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VC8293-BS	122709	8.37	346906	11.09	529501	12.05	489275	15.08	253354	17.12
VC8293-MB	100735	8.36	370773	11.09	565121	12.05	518825	15.08	260646	17.12
JC76497-1	105760	8.36	373497	11.09	579988	12.06	540630	15.08	263431	17.12
JC76497-2	112021	8.36	352710	11.09	546014	12.06	510918	15.08	255425	17.12
JC76508-1 [c]	77090	8.36	338451	11.09	531190	12.06	433291	15.08	143345	17.11
JC76497-1MS	74663	8.36	303715	11.09	471574	12.06	434322	15.08	217590	17.11
JC76497-2DUP	143384	8.36	383076	11.09	591645	12.06	553106	15.08	280880	17.12
ZZZZZZ	145133	8.36	357998	11.09	560948	12.05	519955	15.08	245401	17.12
ZZZZZZ	140614	8.36	349200	11.09	548483	12.05	497992	15.08	225307	17.11
ZZZZZZ	127354	8.36	352123	11.09	558951	12.06	517758	15.08	238704	17.11
ZZZZZZ	110911	8.36	358856	11.09	564432	12.06	532187	15.08	262313	17.12
ZZZZZZ	101017	8.36	351666	11.09	550146	12.06	512218	15.08	256670	17.12
ZZZZZZ	137804	8.36	352871	11.09	567172	12.06	541397	15.08	262780	17.12
ZZZZZZ	123091	8.36	353069	11.09	561468	12.06	540542	15.08	269935	17.12
ZZZZZZ	136830	8.36	355773	11.09	565845	12.05	544722	15.08	277492	17.12
ZZZZZZ	119337	8.36	346947	11.09	557906	12.06	525107	15.08	258467	17.12
ZZZZZZ	124419	8.36	349266	11.09	559901	12.06	530225	15.08	266345	17.12
ZZZZZZ	124126	8.36	344979	11.09	555753	12.06	527296	15.08	263705	17.11
ZZZZZZ	116501	8.36	327413	11.09	520724	12.06	469848	15.08	207558	17.12
ZZZZZZ	112775	8.36	338297	11.09	537467	12.06	494306	15.08	235543	17.12

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

Internal Standard Area Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Check Std:	VD10499-CC10401	**Injection Date:**	10/24/18
Lab File ID:	D260117.D	**Injection Time:**	08:00
Instrument ID:	GCMSD	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	43201	7.49	79305	9.75	114996	10.71	113824	14.12	75644	16.77
Upper Limit [a]	86402	7.99	158610	10.25	229992	11.21	227648	14.62	151288	17.27
Lower Limit [b]	21601	6.99	39653	9.25	57498	10.21	56912	13.62	37822	16.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VD10499-BS	41910	7.48	79142	9.75	116980	10.71	118331	14.12	79959	16.77
VD10499-MB	41693	7.49	77021	9.75	112288	10.71	113978	14.12	76506	16.77
ZZZZZZ	41693	7.49	77021	9.75	112288	10.71	113978	14.12	76506	16.77
ZZZZZZ	42846	7.49	75587	9.75	109830	10.71	108901	14.12	75722	16.77
JC76425-1	37935	7.48	74256	9.75	108972	10.71	109398	14.12	73735	16.77
ZZZZZZ	38815	7.48	74261	9.75	109157	10.71	105453	14.12	73796	16.77
ZZZZZZ	40690	7.48	74229	9.75	109562	10.71	111548	14.13	75743	16.77
ZZZZZZ	42225	7.48	75329	9.75	109921	10.71	112825	14.12	75654	16.77
ZZZZZZ	41870	7.49	72851	9.75	106523	10.71	113376	14.12	93576	16.77
ZZZZZZ	48269	7.53	92183	9.75	129309	10.71	147520	14.12	116201	16.77
JC76425-1MS	46800	7.50	92699	9.75	132470	10.71	130890	14.12	93170	16.77
JC76425-1MSD	44345	7.49	92701	9.75	127593	10.71	128327	14.12	88421	16.77
ZZZZZZ	42413	7.47	95970	9.75	134795	10.71	136353	14.12	94808	16.77
ZZZZZZ	47092	7.49	95464	9.75	133151	10.71	132894	14.12	90822	16.77
ZZZZZZ	44842	7.49	94177	9.75	129020	10.71	135916	14.12	111059	16.77
JC76508-1 [c]	62261	7.51	89395	9.75	128869	10.71	127872	14.13	88034	16.77

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

Surrogate Recovery Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Method: SW846 8260C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC76508-1	C223290.D	101	107	104	136* [a]
JC76508-1	D260139.D	91	99	91	98
JC76425-1MS	D260129.D	87	94	91	92
JC76425-1MSD	D260130.D	85	93	90	93
JC76497-1MS	C223291.D	100	99	98	102
JC76497-2DUP	C223293.D	100	109	96	102
VC8293-BS	C223285.D	98	105	98	101
VC8293-MB	C223287.D	92	98	98	102
VD10499-BS	D260119.D	93	102	90	95
VD10499-MB	D260121.D	94	103	90	101

Surrogate Compounds		Recovery Limits
S1 =	Dibromofluoromethane	75-127%
S2 =	1,2-Dichloroethane-D4	75-130%
S3 =	Toluene-D8	80-120%
S4 =	4-Bromofluorobenzene	79-127%

(a) Outside control limits due to matrix interference.

Initial Calibration Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Sample: VC8261-ICC8261
Lab FileID: C222638.D

Response Factor Report MSC

```
Method       : C:\MSDCHEM\1\METHODS\MC8261.M (RTE Integrator)
Title        : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
Last Update  : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

Calibration Files
4   =C222635.D   2   =C222634.D   20  =C222637.D   50  =C222638.D
100 =C222639.D   1   =C222633.D   200 =C222640.D   0.5 =C222632.D
8   =C222636.D       =

 Compound
            4     2     20    50    100   1     200   0.5   8       Avg    %RSD
-------------------------------------------------------------------------------

1)     Tert Butyl Alcohol-d9 ----------------ISTD---------------------
2)  ethanol
          0.116 0.123 0.108 0.116 0.115 0.118 0.115       0.113   0.115    3.77
3)  tertiary butyl alcohol
          1.302 1.291 1.247 1.309 1.310 1.180 1.298       1.304   1.280    3.52
4)  1,4-dioxane
          0.096 0.105 0.101 0.112 0.106 0.088 0.106       0.096   0.101    7.65

5) I   pentafluorobenzene    ----------------ISTD---------------------
6)  chlorodifluoromethane----The compound does not meet initial criteria.
          0.468 0.496 0.459 0.443 0.439 0.510 0.424 0.515 0.472   0.469    6.88
7)  dichlorodifluoromethane
          0.688 0.725 0.684 0.668 0.654 0.676 0.627 0.724 0.696   0.683    4.64
8)  chloromethane
          0.768 0.811 0.738 0.703 0.700 0.846 0.677       0.762   0.751    7.73
9)  vinyl chloride
          0.703 0.770 0.707 0.693 0.682 0.743 0.658 0.765 0.717   0.715    5.28
10)  bromomethane
          0.439 0.482 0.437 0.441 0.444 0.483 0.442 0.444 0.450   0.451    3.98
11)  chloroethane
          0.424 0.419 0.401 0.400 0.404 0.450 0.398 0.425 0.421   0.416    4.06
12)  vinyl bromide
          0.511 0.538 0.503 0.504 0.503 0.546 0.496 0.509 0.520   0.514    3.34
13)  trichlorofluoromethane
          0.721 0.822 0.714 0.698 0.688 0.803 0.676 0.799 0.735   0.739    7.37
14)  ethyl ether
          0.229 0.256 0.242 0.232 0.236 0.221 0.232 0.250 0.244   0.238    4.61
15)  2-chloropropane
          0.816 0.898 0.829 0.804 0.796 0.841 0.782 0.915 0.834   0.835    5.38
16)  acrolein
          0.061 0.057 0.059 0.057 0.061       0.058       0.060   0.059    2.80
17)  freon 113
          0.323 0.337 0.322 0.324 0.322 0.311 0.316 0.256 0.325   0.315    7.39
18)  1,1-dichloroethene
          0.678 0.737 0.696 0.680 0.677 0.732 0.672 0.746 0.703   0.702    4.09
19)  acetone
          0.080 0.093 0.080 0.073 0.075       0.075       0.082   0.080    8.34
20)  acetonitrile
          0.035 0.041 0.036 0.033 0.034       0.033       0.036   0.035    7.42
21)  iodomethane
          0.500 0.545 0.520 0.514 0.522 0.496 0.518 0.502 0.532   0.517    3.07
22)  carbon disulfide
          1.163 1.265 1.196 1.175 1.174 1.217 1.150 1.249 1.218   1.201    3.29
23)  methylene chloride
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          0.591 0.589 0.512 0.447 0.443       0.433       0.674   0.527   17.67
24)  methyl acetate
          0.204 0.217 0.216 0.206 0.207       0.202       0.211   0.209    2.72
25)  methyl tert butyl ether
          1.072 1.128 1.108 1.075 1.114 1.058 1.092 1.086 1.108   1.094    2.08
26)  trans-1,2-dichloroethene
          0.636 0.703 0.656 0.641 0.637 0.657 0.632 0.688 0.663   0.657    3.72
27)  hexane
          0.731 0.822 0.731 0.718 0.697 0.884 0.671       0.736   0.749    9.33
28)  di-isopropyl ether
          1.396 1.493 1.478 1.463 1.491 1.393 1.502 1.511 1.471   1.466    2.97
29)  ethyl tert-butyl ether
          1.325 1.377 1.374 1.340 1.379 1.345 1.366 1.470 1.374   1.372    3.02
30)  1,1-dichloroethane
          0.798 0.869 0.834 0.816 0.811 0.829 0.809 0.890 0.833   0.832    3.58
31)  chloroprene
          0.633 0.680 0.696 0.697 0.695 0.632 0.696 0.638 0.666   0.670    4.31
32)  acrylonitrile
          0.101 0.093 0.106 0.100 0.104       0.101       0.106   0.102    4.41
33)  vinyl acetate
          0.058 0.054 0.063 0.066 0.068       0.066       0.061   0.062    7.91
34)  2-butanone
          0.029 0.029 0.034 0.033 0.034       0.034       0.033   0.032    7.13
35)  ethyl acetate
          0.038       0.043 0.043 0.045       0.044       0.048   0.043    7.66
36)  2,2-dichloropropane
          0.673 0.713 0.685 0.683 0.677 0.682 0.672 0.755 0.678   0.691    3.91
37)  cis-1,2-dichloroethene
          0.488 0.544 0.504 0.490 0.490 0.520 0.488 0.469 0.507   0.500    4.39
38)  methyl acrylate
          0.037       0.043 0.042 0.045       0.045       0.042   0.042    7.38
39)  propionitrile
          0.039 0.042 0.042 0.040 0.042 0.039 0.041       0.042   0.041    3.40
40)  bromochloromethane
          0.197 0.203 0.201 0.196 0.200 0.181 0.198 0.153 0.205   0.193    8.43
41)  tetrahydrofuran
          0.083 0.093 0.091 0.087 0.090 0.109 0.087       0.094   0.092    8.59
42)  chloroform
          0.746 0.826 0.775 0.760 0.757 0.744 0.758 0.825 0.774   0.774    4.04
43)  t-butyl formate
          0.180 0.206 0.208 0.209 0.215 0.168 0.213       0.196   0.199    8.48
44)  dibromofluoromethane (s)
          0.411 0.408 0.421 0.411 0.417 0.406 0.420 0.406 0.412   0.412    1.38
45)  methacrylonitrile
          0.107 0.115 0.118 0.117 0.122       0.119       0.118   0.117    4.04
46)  cyclohexane
          0.751 0.794 0.755 0.751 0.743 0.779 0.720 0.725 0.747   0.752    3.10
47)  1,1,1-trichloroethane
          0.674 0.724 0.695 0.680 0.688 0.655 0.679 0.749 0.703   0.694    4.04
48)  1,1-dichloropropene
          0.595 0.656 0.636 0.633 0.626 0.614 0.626 0.666 0.640   0.633    3.31
49)  carbon tetrachloride
          0.553 0.601 0.582 0.584 0.581 0.566 0.584 0.571 0.577   0.578    2.32
50)  tert-amyl alcohol
          0.018 0.019 0.019 0.017 0.019 0.020 0.019       0.019   0.019    3.91
51)  isobutyl alcohol
          0.014 0.015 0.015 0.014 0.015       0.015       0.015   0.015    4.09

52) I   1,4-difluorobenzene   ----------------ISTD---------------------
53)  1,2-dichloroethane-d4 (s)
```

```
           0.277 0.274 0.280 0.268 0.272 0.275 0.274 0.275 0.274   0.274    1.20
54)  isopropyl acetate
           0.043 0.043 0.049 0.048 0.050       0.050       0.047   0.047    6.39
55)  2,2,4-trimethylpentane
           1.266 1.423 1.376 1.291 1.309 1.331 1.272 1.390 1.287   1.327    4.27
56)  tert-amyl methyl ether
           0.785 0.845 0.855 0.808 0.838 0.813 0.841 0.807 0.818   0.823    2.75
57)  benzene
           1.178 1.278 1.223 1.190 1.175 1.189 1.172 1.251 1.216   1.208    3.08
58)  heptane
           0.261 0.292 0.280 0.273 0.267 0.268 0.259 0.303 0.270   0.275    5.32
59)  1,2-dichloroethane
           0.339 0.365 0.349 0.335 0.336 0.360 0.336 0.407 0.353   0.353    6.56
60)  n-butyl alcohol
           0.005 0.005 0.006 0.006 0.007 0.005 0.006       0.006   0.006#   9.14
61)  ethyl acrylate
           0.220 0.211 0.243 0.249 0.263       0.262       0.246   0.242    8.22
62)  trichloroethene
           0.276 0.308 0.294 0.288 0.286 0.296 0.291 0.308 0.289   0.293    3.44
63)  2-chloroethyl vinyl ether
           0.007 0.008 0.009 0.008 0.012 0.007             0.007   0.008#  20.38
         ----- Quadratic regression -----                Coefficient =  0.9973
             Response Ratio = 0.00127 + 0.00514 *A + 0.00066 *A^2

64)  2-nitropropane
           0.050 0.049 0.051 0.050 0.053 0.059 0.051       0.055   0.052    6.30
65)  methylcyclohexane
           0.570 0.616 0.601 0.572 0.577 0.571 0.569 0.597 0.567   0.582    3.03
66)  methyl methacrylate
           0.047       0.052 0.054 0.056       0.056       0.053   0.053    6.82
67)  1,2-dichloropropane
           0.289 0.305 0.306 0.303 0.308 0.297 0.311 0.315 0.300   0.304    2.55
68)  dibromomethane
           0.134 0.146 0.143 0.141 0.143 0.140 0.141 0.139 0.147   0.142    2.66
69)  bromodichloromethane
           0.337 0.364 0.360 0.366 0.371 0.325 0.374 0.339 0.354   0.355    4.77
70)  epichlorohydrin
           0.015 0.017 0.018 0.018 0.019 0.015 0.018       0.019   0.017    8.09
71)  cis-1,3-dichloropropene
           0.412 0.427 0.446 0.458 0.462 0.431 0.457 0.438 0.447   0.442    3.73
72)  4-methyl-2-pentanone
           0.070 0.070 0.081 0.079 0.084 0.065 0.083       0.079   0.076    9.12
73)  3-methyl-1-butanol
           0.008 0.009 0.010 0.010 0.011 0.007 0.011       0.010   0.010#  13.60

74) I   chlorobenzene-d5      ----------------ISTD---------------------
75)  toluene-d8 (s)
           1.386 1.372 1.382 1.355 1.349 1.366 1.329 1.350 1.380   1.363    1.39
76)  toluene
           0.836 0.912 0.867 0.847 0.839 0.889 0.826 0.911 0.878   0.867    3.72
77)  ethyl methacrylate
           0.281 0.289 0.327 0.330 0.349 0.260 0.348       0.305   0.311   10.40
78)  trans-1,3-dichloropropene
           0.408 0.439 0.439 0.437 0.444 0.428 0.439 0.462 0.442   0.437    3.24
79)  1,1,2-trichloroethane
           0.195 0.204 0.199 0.196 0.197 0.198 0.192 0.182 0.200   0.196    3.23
80)  2-hexanone
           0.077 0.075 0.088 0.084 0.089 0.071 0.086 0.072 0.085   0.081    8.61
81)  tetrachloroethene
           0.318 0.355 0.338 0.328 0.325 0.329 0.319 0.357 0.338   0.334    4.30
```

Initial Calibration Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: VC8261-ICC8261
Lab FileID: C222638.D

```
 82)  1,3-dichloropropane
            0.410 0.436 0.427 0.413 0.418 0.409 0.406 0.409 0.432   0.418    2.64
 83)  butyl acetate
            0.147 0.176 0.170 0.163 0.168 0.132 0.163       0.175   0.162    9.35
 84)  dibromochloromethane
            0.232 0.236 0.259 0.260 0.269 0.241 0.267 0.231 0.255   0.250    6.02
 85)  1,2-dibromoethane
            0.222 0.231 0.238 0.236 0.239 0.220 0.234 0.242 0.235   0.233    3.23
 86)  n-butyl ether
            1.482 1.618 1.606 1.604 1.599 1.517 1.583 1.590 1.555   1.573    2.92
 87)  chlorobenzene
            0.885 0.945 0.912 0.890 0.888 0.913 0.874 0.982 0.926   0.913    3.76
 88)  1,1,1,2-tetrachloroethane
            0.287 0.300 0.315 0.306 0.318 0.283 0.321 0.286 0.302   0.302    4.73
 89)  ethylbenzene
            1.597 1.740 1.667 1.647 1.646 1.657 1.647 1.731 1.648   1.664    2.68
 90)  m,p-xylene
            0.611 0.667 0.645 0.638 0.637 0.631 0.636 0.650 0.643   0.640    2.34
 91)  o-xylene
            1.252 1.310 1.332 1.297 1.330 1.278 1.351 1.327 1.314   1.310    2.32
 92)  styrene
            0.890 0.944 1.001 1.024 1.060 0.850 1.080 0.892 0.948   0.965    8.36
 93)  butyl acrylate
            0.407 0.410 0.486 0.492 0.532       0.536       0.455   0.474   11.11
 94)  bromoform
            0.130 0.131 0.146 0.149 0.156 0.128 0.159       0.144   0.143    8.35
 95)  isopropylbenzene
            1.576 1.723 1.670 1.624 1.636 1.603 1.607 1.679 1.640   1.640    2.75
 96)  cis-1,4-dichloro-2-butene
            0.088       0.104 0.108 0.112       0.114       0.101   0.104    9.19

 97) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 98)  4-bromofluorobenzene (s)
            0.730 0.726 0.726 0.730 0.714 0.739 0.714 0.750 0.730   0.729    1.56
 99)  bromobenzene
            0.672 0.749 0.696 0.710 0.711 0.748 0.713 0.749 0.716   0.718    3.67
100)  1,1,2,2-tetrachloroethane
            0.562 0.604 0.602 0.583 0.585 0.597 0.560 0.599 0.600   0.588    2.88
101)  trans-1,4-dichloro-2-butene
            0.146 0.164 0.160 0.161 0.160 0.157 0.158       0.159   0.158    3.44
102)  1,2,3-trichloropropane
            0.156 0.175 0.169 0.163 0.164 0.152 0.158 0.158 0.165   0.162    4.26
103)  n-propylbenzene
            3.774 4.195 3.947 3.907 3.824 4.101 3.732 4.189 3.914   3.954    4.36
104)  2-chlorotoluene
            0.730 0.790 0.769 0.767 0.763 0.790 0.764 0.765 0.778   0.768    2.35
105)  4-chlorotoluene
            2.161 2.371 2.235 2.220 2.178 2.237 2.172 2.488 2.239   2.256    4.74
106)  1,3,5-trimethylbenzene
            2.595 2.842 2.763 2.746 2.768 2.779 2.745 2.922 2.738   2.766    3.15
107)  tert-butylbenzene
            0.575 0.604 0.593 0.597 0.588 0.594 0.576 0.596 0.602   0.592    1.70
108)  1,2,4-trimethylbenzene
            2.654 2.847 2.766 2.714 2.717 2.783 2.664 2.954 2.728   2.759    3.41
109)  sec-butylbenzene
            3.455 3.778 3.708 3.596 3.553 3.674 3.388 3.783 3.634   3.619    3.76
110)  1,3-dichlorobenzene
            1.391 1.527 1.439 1.422 1.418 1.513 1.419 1.638 1.447   1.468    5.31
111)  p-isopropyltoluene
            2.870 3.170 3.058 3.006 2.982 3.025 2.869 3.188 3.020   3.021    3.68
```

Initial Calibration Summary

Job Number: JC76508 **Sample:** VC8261-ICC8261
Account: WSPENYC WSP Environment & Energy **Lab FileID:** C222638.D
Project: Emersub 15, LLC, Ithaca, NY

```
112)  1,4-dichlorobenzene
            1.420 1.590 1.436 1.406 1.423 1.556 1.417 1.621 1.465   1.482    5.66
113)  benzyl chloride
            1.048 1.141 1.141 1.152 1.177 1.123 1.158 1.113 1.131   1.132    3.24
114)  1,2-dichlorobenzene
            1.297 1.413 1.342 1.304 1.313 1.384 1.303 1.390 1.332   1.342    3.23
115)  n-butylbenzene
            1.548 1.715 1.641 1.590 1.595 1.626 1.546 1.682 1.576   1.613    3.60
116)  hexachloroethane
            0.359 0.382 0.406 0.412 0.424 0.377 0.415 0.333 0.393   0.389    7.52
117)  1,2-dibromo-3-chloropropane
            0.100 0.105 0.114 0.111 0.116       0.113       0.112   0.110    5.00
118)  1,3,5-trichlorobenzene
            1.108 1.228 1.164 1.077 1.111 1.250 1.063 1.283 1.139   1.158    6.79
119)  nitrobenzene
                                                                    0.000#  -1.00
120)  2-ethylhexyl acrylate
                        0.641 0.640 0.786       0.802       0.485   0.671   19.24
121)  1,2,4-trichlorobenzene
            0.947 1.026 1.007 0.925 0.956 1.090 0.922 1.051 0.950   0.986    6.06
122)  hexachlorobutadiene
            0.534 0.588 0.559 0.518 0.533 0.557 0.499       0.533   0.540    5.08
123)  naphthalene
            1.940 1.976 2.052 1.870 1.983 2.031 1.860 2.171 1.959   1.982    4.81
124)  1,2,3-trichlorobenzene
            0.866 0.926 0.915 0.832 0.871 0.949 0.830 0.965 0.865   0.891    5.56
125)  2-methylnaphthalene
            1.202 0.995 1.228 1.137 1.294 1.021 1.222       1.070   1.146    9.44
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MC8261.M          Thu Oct 25 17:29:27 2018   C
```

6.9.1

6

Initial Calibration Verification

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Sample: VC8261-ICV8261
Lab FileID: C222643.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VC8261\C222643.D Vial: 13
Acq On : 11 Aug 2018 6:43 pm Operator: prashanS
Sample : ICV8261-50 Inst : MSC
Misc : MS28184,VC8261,5.0,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MC8261.M (RTE Integrator)
Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
Last Update : Thu Oct 25 17:07:17 2018
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		Tert Butyl Alcohol-d9	1.000	1.000	0.0	101	-0.01	8.40
2	M	ethanol	0.115	0.114	0.9	100	-0.02	6.78
3	M	tertiary butyl alcohol	1.280	1.289	-0.7	99	0.00	8.56
4		1,4-dioxane	0.101	0.110	-8.9	99	0.00	12.72
5	I	pentafluorobenzene	1.000	1.000	0.0	101	0.00	11.12
6	M	chlorodifluoromethane	0.469	0.628	-33.9#	143	0.00	4.37
7	M	dichlorodifluoromethane	0.683	0.660	3.4	99	-0.01	4.34
8	M	chloromethane	0.751	0.739	1.6	106	-0.01	4.76
9	M	vinyl chloride	0.715	0.694	2.9	101	-0.01	5.04
10	M	bromomethane	0.451	0.457	-1.3	104	-0.01	5.78
11	M	chloroethane	0.416	0.447	-7.5	112	0.00	6.00
12		vinyl bromide	0.514	0.611	-18.9	122	-0.01	6.40
13	M	trichlorofluoromethane	0.739	0.661	10.6	95	-0.01	6.54
14	M	ethyl ether	0.238	0.231	2.9	100	-0.01	7.04
15	m	2-chloropropane	0.835	0.798	4.4	100	0.00	7.31
16	M	acrolein	0.059	0.054	8.5	94	-0.01	7.33
17		freon 113	0.315	0.343	-8.9	106	-0.01	7.57
18	M	1,1-dichloroethene	0.702	0.630	10.3	93	-0.01	7.55
19	M	acetone	0.080	0.114	-42.5#	156	-0.01	7.58
20	M	acetonitrile	0.035	0.031	11.4	95	0.00	8.11
21	M	iodomethane	0.517	0.649	-25.5	127	0.00	7.87
22	M	carbon disulfide	1.201	1.397	-16.3	120	-0.01	8.03
23	M	methylene chloride	0.527	0.433	17.8	97	0.00	8.47
24	M	methyl acetate	0.209	0.203	2.9	100	0.00	8.16
25	M	methyl tert butyl ether	1.094	1.105	-1.0	104	0.00	8.93
26	M	trans-1,2-dichloroethene	0.657	0.629	4.3	99	0.00	8.96
27		hexane	0.749	0.661	11.7	93	0.00	9.40
28	M	di-isopropyl ether	1.466	1.489	-1.6	102	0.00	9.68
29	M	ethyl tert-butyl ether	1.372	1.389	-1.2	104	0.00	10.21
30	M	1,1-dichloroethane	0.832	0.799	4.0	99	0.00	9.68
31	M	chloroprene	0.670	0.707	-5.5	102	0.00	9.80
32	M	acrylonitrile	0.102	0.119	-16.7	120	0.00	8.85
33	M	vinyl acetate	0.062	0.062	0.0	94	0.00	9.62
34		2-butanone	0.032	0.038	-18.7	116	0.00	10.44
35	M	ethyl acetate	0.043	0.044	-2.3	102	0.00	10.47
36	M	2,2-dichloropropane	0.691	0.678	1.9	100	0.00	10.53
37	M	cis-1,2-dichloroethene	0.500	0.499	0.2	102	0.00	10.51
38	m	methyl acrylate	0.042	0.044	-4.8	103	0.00	10.56
39	M	propionitrile	0.041	0.043	-4.9	108	0.00	10.53
40	M	bromochloromethane	0.193	0.201	-4.1	103	0.00	10.84
41	M	tetrahydrofuran	0.092	0.085	7.6	99	0.00	10.85

Initial Calibration Verification

Job Number: JC76508 **Sample:** VC8261-ICV8261
Account: WSPENYC WSP Environment & Energy **Lab FileID:** C222643.D
Project: Emersub 15, LLC, Ithaca, NY

42	M	chloroform	0.774	0.757	2.2	100	0.00	10.94
43	m	t-butyl formate	0.199	0.162	18.6	78	0.00	10.97
44	S	dibromofluoromethane (s)	0.412	0.414	-0.5	101	0.00	11.14
45	M	methacrylonitrile	0.117	0.119	-1.7	103	0.00	10.75
46		cyclohexane	0.752	0.685	8.9	92	0.00	11.31
47	M	1,1,1-trichloroethane	0.694	0.663	4.5	98	0.00	11.20
48		1,1-dichloropropene	0.633	0.625	1.3	99	0.00	11.39
49		carbon tetrachloride	0.578	0.569	1.6	98	0.00	11.41
50		tert-amyl alcohol	0.019	0.019	0.0	107	0.00	11.54
51		isobutyl alcohol	0.015	0.014	6.7	103	0.00	11.37
52	I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00	12.09
53	S	1,2-dichloroethane-d4 (s)	0.274	0.270	1.5	100	0.00	11.59
54		isopropyl acetate	0.047	0.048	-2.1	100	0.00	11.58
55		2,2,4-trimethylpentane	1.327	1.351	-1.8	104	0.00	11.74
56		tert-amyl methyl ether	0.823	0.838	-1.8	103	0.00	11.74
57	M	benzene	1.208	1.190	1.5	99	0.00	11.64
58	M	heptane	0.275	0.297	-8.0	108	0.00	11.91
59	M	1,2-dichloroethane	0.353	0.339	4.0	100	0.00	11.68
60		n-butyl alcohol	0.006	0.006#	0.0	97	0.00	12.14
61		ethyl acrylate	0.242	0.248	-2.5	99	0.00	12.39
62	M	trichloroethene	0.293	0.290	1.0	100	0.00	12.39
		----------	True	Calc.	% Drift	----------		
63	M	2-chloroethyl vinyl ether	250.000	266.018	-6.4	115	0.00	13.18
		----------	AvgRF	CCRF	% Dev	----------		
64		2-nitropropane	0.052	0.053	-1.9	106	0.00	13.15
65	M	methylcyclohexane	0.582	0.585	-0.5	101	0.00	12.68
66	M	methyl methacrylate	0.053	0.056	-5.7	102	0.00	12.65
67	M	1,2-dichloropropane	0.304	0.300	1.3	98	0.00	12.68
68	M	dibromomethane	0.142	0.146	-2.8	102	0.00	12.79
69	M	bromodichloromethane	0.355	0.359	-1.1	97	0.00	12.94
70		epichlorohydrin	0.017	0.018	-5.9	101	0.00	13.26
71	M	cis-1,3-dichloropropene	0.442	0.454	-2.7	98	0.00	13.39
72	M	4-methyl-2-pentanone	0.076	0.081	-6.6	102	0.00	13.49
73	M	3-methyl-1-butanol	0.010	0.010#	0.0	99	0.00	13.50
74	I	chlorobenzene-d5	1.000	1.000	0.0	98	0.00	15.10
75	S	toluene-d8 (s)	1.363	1.364	-0.1	98	0.00	13.68
76		toluene	0.867	0.856	1.3	99	0.00	13.75
77		ethyl methacrylate	0.311	0.323	-3.9	96	0.00	13.93
78		trans-1,3-dichloropropene	0.437	0.422	3.4	94	0.00	13.94
79		1,1,2-trichloroethane	0.196	0.196	0.0	98	0.00	14.15
80	M	2-hexanone	0.081	0.091	-12.3	106	0.00	14.30
81	M	tetrachloroethene	0.334	0.397	-18.9	118	0.00	14.28
82	M	1,3-dichloropropane	0.418	0.426	-1.9	101	0.00	14.32
83	M	butyl acetate	0.162	0.171	-5.6	103	0.00	14.38
84	M	dibromochloromethane	0.250	0.273	-9.2	103	0.00	14.55
85	M	1,2-dibromoethane	0.233	0.244	-4.7	101	0.00	14.70
86	M	n-butyl ether	1.573	1.538	2.2	94	0.00	15.08
87	M	chlorobenzene	0.913	0.908	0.5	100	0.00	15.13
88	M	1,1,1,2-tetrachloroethane	0.302	0.322	-6.6	103	0.00	15.19
89	M	ethylbenzene	1.664	1.670	-0.4	99	0.00	15.18
90	M	m,p-xylene	0.640	0.654	-2.2	100	0.00	15.29
91	M	o-xylene	1.310	1.332	-1.7	100	0.00	15.65
92	M	styrene	0.965	1.057	-9.5	101	0.00	15.66
93		butyl acrylate	0.474	0.509	-7.4	101	0.00	15.49
94	M	bromoform	0.143	0.159	-11.2	104	0.00	15.88
95		isopropylbenzene	1.640	1.659	-1.2	100	0.00	15.96

Initial Calibration Verification

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: VC8261-ICV8261
Lab FileID: C222643.D

96		cis-1,4-dichloro-2-butene	0.104	0.104	0.0	94	0.00	15.99
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	17.14
98	S	4-bromofluorobenzene (s)	0.729	0.722	1.0	99	0.00	16.14
99	M	bromobenzene	0.718	0.714	0.6	101	0.00	16.31
100	M	1,1,2,2-tetrachloroethane	0.588	0.566	3.7	97	0.00	16.21
101	M	trans-1,4-dichloro-2-bute	0.158	0.169	-7.0	105	0.00	16.23
102	M	1,2,3-trichloropropane	0.162	0.158	2.5	97	0.00	16.29
103	M	n-propylbenzene	3.954	3.879	1.9	99	0.00	16.32
104	M	2-chlorotoluene	0.768	0.754	1.8	98	0.00	16.44
105	M	4-chlorotoluene	2.256	2.265	-0.4	102	0.00	16.54
106	M	1,3,5-trimethylbenzene	2.766	2.744	0.8	100	0.00	16.45
107	M	tert-butylbenzene	0.592	0.597	-0.8	100	0.00	16.74
108	M	1,2,4-trimethylbenzene	2.759	2.778	-0.7	102	0.00	16.78
109	M	sec-butylbenzene	3.619	3.638	-0.5	101	0.00	16.93
110	M	1,3-dichlorobenzene	1.468	1.431	2.5	101	0.00	17.08
111	M	p-isopropyltoluene	3.021	3.043	-0.7	101	0.00	17.03
112	M	1,4-dichlorobenzene	1.482	1.430	3.5	102	0.00	17.16
113		benzyl chloride	1.132	0.923	18.5	80	0.00	17.23
114	M	1,2-dichlorobenzene	1.342	1.325	1.3	102	0.00	17.47
115	M	n-butylbenzene	1.613	1.582	1.9	99	0.00	17.37
116		hexachloroethane	0.389	0.432	-11.1	105	0.00	17.72
117	M	1,2-dibromo-3-chloropropa	0.110	0.111	-0.9	100	0.00	18.11
118	m	1,3,5-trichlorobenzene	1.158	1.111	4.1	103	0.00	18.25
119		nitrobenzene		----------NA----------				
120		2-ethylhexyl acrylate	0.671	0.710	-5.8	111	0.00	18.73
121	M	1,2,4-trichlorobenzene	0.986	0.960	2.6	104	0.00	18.80
122	M	hexachlorobutadiene	0.540	0.519	3.9	100	0.00	18.88
123	M	naphthalene	1.982	1.976	0.3	106	0.00	19.06
124	M	1,2,3-trichlorobenzene	0.891	0.849	4.7	102	0.00	19.25
125	M	2-methylnaphthalene	1.146	1.153	-0.6	101	0.00	20.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C222638.D MC8261.M Thu Oct 25 17:29:42 2018 C

6.9.2

6

Initial Calibration Verification

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Sample: VC8261-ICV8261
Lab FileID: C222644.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\VC8261\C222644.D          Vial: 14
Acq On    : 11 Aug 2018   7:12 pm                   Operator: prashanS
Sample    : ICV8261-50                              Inst    : MSC
Misc      : MS28184,VC8261,5.0,,,,1                 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MC8261.M (RTE Integrator)
Title        : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
Last Update  : Mon Aug 13 13:41:58 2018
Response via : Multiple Level Calibration

Min. RRF     :   0.010  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		Tert Butyl Alcohol-d9	1.000	1.000	0.0	99	0.00	8.41
2	M	ethanol		----------NA----------				
3	M	tertiary butyl alcohol		----------NA----------				
4		1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	98	0.00	11.12
6	M	chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane		----------NA----------				
8	M	chloromethane		----------NA----------				
9	M	vinyl chloride		----------NA----------				
10	M	bromomethane		----------NA----------				
11	M	chloroethane		----------NA----------				
12		vinyl bromide		----------NA----------				
13	M	trichlorofluoromethane		----------NA----------				
14	M	ethyl ether		----------NA----------				
15	m	2-chloropropane		----------NA----------				
16	M	acrolein		----------NA----------				
17		freon 113		----------NA----------				
18	M	1,1-dichloroethene		----------NA----------				
19	M	acetone		----------NA----------				
20	M	acetonitrile	0.035	0.025	28.6	74	0.00	8.11
21	M	iodomethane		----------NA----------				
22	M	carbon disulfide		----------NA----------				
23	M	methylene chloride		----------NA----------				
24	M	methyl acetate		----------NA----------				
25	M	methyl tert butyl ether		----------NA----------				
26	M	trans-1,2-dichloroethene		----------NA----------				
27		hexane		----------NA----------				
28	M	di-isopropyl ether		----------NA----------				
29	M	ethyl tert-butyl ether		----------NA----------				
30	M	1,1-dichloroethane		----------NA----------				
31	M	chloroprene		----------NA----------				
32	M	acrylonitrile		----------NA----------				
33	M	vinyl acetate		----------NA----------				
34		2-butanone		----------NA----------				
35	M	ethyl acetate		----------NA----------				
36	M	2,2-dichloropropane		----------NA----------				
37	M	cis-1,2-dichloroethene		----------NA----------				
38	m	methyl acrylate		----------NA----------				
39	M	propionitrile		----------NA----------				
40	M	bromochloromethane		----------NA----------				
41	M	tetrahydrofuran		----------NA----------				

Initial Calibration Verification

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: VC8261-ICV8261
Lab FileID: C222644.D

42	M	chloroform		----------NA----------				
43	m	t-butyl formate		----------NA----------				
44	S	dibromofluoromethane (s)	0.412	0.404	1.9	96	0.00	11.15
45	M	methacrylonitrile		----------NA----------				
46		cyclohexane		----------NA----------				
47	M	1,1,1-trichloroethane		----------NA----------				
48		1,1-dichloropropene		----------NA----------				
49		carbon tetrachloride		----------NA----------				
50		tert-amyl alcohol		----------NA----------				
51		isobutyl alcohol		----------NA----------				
52	I	1,4-difluorobenzene	1.000	1.000	0.0	96	0.00	12.08
53	S	1,2-dichloroethane-d4 (s)	0.274	0.269	1.8	97	0.00	11.59
54		isopropyl acetate		----------NA----------				
55		2,2,4-trimethylpentane		----------NA----------				
56		tert-amyl methyl ether		----------NA----------				
57	M	benzene		----------NA----------				
58	M	heptane		----------NA----------				
59	M	1,2-dichloroethane		----------NA----------				
60		n-butyl alcohol		----------NA----------				
61		ethyl acrylate		----------NA----------				
62	M	trichloroethene		----------NA----------				
63	M	2-chloroethyl vinyl ether		----------NA----------				
64		2-nitropropane		----------NA----------				
65	M	methylcyclohexane		----------NA----------				
66	M	methyl methacrylate		----------NA----------				
67	M	1,2-dichloropropane		----------NA----------				
68	M	dibromomethane		----------NA----------				
69	M	bromodichloromethane		----------NA----------				
70		epichlorohydrin		----------NA----------				
71	M	cis-1,3-dichloropropene		----------NA----------				
72	M	4-methyl-2-pentanone		----------NA----------				
73	M	3-methyl-1-butanol		----------NA----------				
74	I	chlorobenzene-d5	1.000	1.000	0.0	95	0.00	15.10
75	S	toluene-d8 (s)	1.363	1.355	0.6	95	0.00	13.68
76		toluene		----------NA----------				
77		ethyl methacrylate		----------NA----------				
78		trans-1,3-dichloropropene		----------NA----------				
79		1,1,2-trichloroethane		----------NA----------				
80	M	2-hexanone		----------NA----------				
81	M	tetrachloroethene	0.334	0.325	2.7	95	0.00	14.28
82	M	1,3-dichloropropane		----------NA----------				
83	M	butyl acetate		----------NA----------				
84	M	dibromochloromethane		----------NA----------				
85	M	1,2-dibromoethane		----------NA----------				
86	M	n-butyl ether		----------NA----------				
87	M	chlorobenzene		----------NA----------				
88	M	1,1,1,2-tetrachloroethane		----------NA----------				
89	M	ethylbenzene		----------NA----------				
90	M	m,p-xylene		----------NA----------				
91	M	o-xylene		----------NA----------				
92	M	styrene		----------NA----------				
93		butyl acrylate		----------NA----------				
94	M	bromoform		----------NA----------				
95		isopropylbenzene		----------NA----------				
96		cis-1,4-dichloro-2-butene		----------NA----------				
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	94	0.00	17.14
98	S	4-bromofluorobenzene (s)	0.729	0.736	-1.0	95	0.00	16.14

Initial Calibration Verification

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: VC8261-ICV8261
Lab FileID: C222644.D

```
 99 M   bromobenzene                        ----------NA----------
100 M   1,1,2,2-tetrachloroethane           ----------NA----------
101 M   trans-1,4-dichloro-2-bute           ----------NA----------
102 M   1,2,3-trichloropropane              ----------NA----------
103 M   n-propylbenzene                     ----------NA----------
104 M   2-chlorotoluene                     ----------NA----------
105 M   4-chlorotoluene                     ----------NA----------
106 M   1,3,5-trimethylbenzene              ----------NA----------
107 M   tert-butylbenzene                   ----------NA----------
108 M   1,2,4-trimethylbenzene              ----------NA----------
109 M   sec-butylbenzene                    ----------NA----------
110 M   1,3-dichlorobenzene                 ----------NA----------
111 M   p-isopropyltoluene                  ----------NA----------
112 M   1,4-dichlorobenzene                 ----------NA----------
113     benzyl chloride                     ----------NA----------
114 M   1,2-dichlorobenzene                 ----------NA----------
115 M   n-butylbenzene                      ----------NA----------
116     hexachloroethane                    ----------NA----------
117 M   1,2-dibromo-3-chloropropa           ----------NA----------
118 m   1,3,5-trichlorobenzene              ----------NA----------
119     nitrobenzene                        ----------NA----------
120     2-ethylhexyl acrylate               ----------NA----------
121 M   1,2,4-trichlorobenzene              ----------NA----------
122 M   hexachlorobutadiene                 ----------NA----------
123 M   naphthalene                         ----------NA----------
124 M   1,2,3-trichlorobenzene              ----------NA----------
125 M   2-methylnaphthalene                 ----------NA----------
 ------------------------------------------------------------------------------
 ------------------------------------------------------------------------------

    (#) = Out of Range              SPCC's out = 0  CCC's out = 0
     C222638.D  MC8261.M         Mon Aug 13 13:44:56 2018   C
```

6.9.3

6

Initial Calibration Verification

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Sample: VC8261-ICV8261
Lab FileID: C222647.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\VC8261\C222647.D          Vial: 17
Acq On    : 13 Aug 2018   2:58 pm                   Operator: prashanS
Sample    : ICV8261-50                              Inst    : MSC
Misc      : MS28184,VC8261,5.0,,,,1                 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MC8261.M (RTE Integrator)
Title        : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
Last Update  : Mon Aug 13 13:41:58 2018
Response via : Multiple Level Calibration

Min. RRF     :   0.010  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		Tert Butyl Alcohol-d9	1.000	1.000	0.0	125	0.00	8.42
2	M	ethanol		----------NA----------				
3	M	tertiary butyl alcohol		----------NA----------				
4		1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	104	0.00	11.12
6	M	chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane		----------NA----------				
8	M	chloromethane		----------NA----------				
9	M	vinyl chloride		----------NA----------				
10	M	bromomethane		----------NA----------				
11	M	chloroethane		----------NA----------				
12		vinyl bromide		----------NA----------				
13	M	trichlorofluoromethane		----------NA----------				
14	M	ethyl ether		----------NA----------				
15	m	2-chloropropane		----------NA----------				
16	M	acrolein		----------NA----------				
17		freon 113		----------NA----------				
18	M	1,1-dichloroethene		----------NA----------				
19	M	acetone	0.080	0.079	1.3	112	0.00	7.59
20	M	acetonitrile		----------NA----------				
21	M	iodomethane		----------NA----------				
22	M	carbon disulfide		----------NA----------				
23	M	methylene chloride		----------NA----------				
24	M	methyl acetate		----------NA----------				
25	M	methyl tert butyl ether		----------NA----------				
26	M	trans-1,2-dichloroethene		----------NA----------				
27		hexane		----------NA----------				
28	M	di-isopropyl ether		----------NA----------				
29	M	ethyl tert-butyl ether		----------NA----------				
30	M	1,1-dichloroethane		----------NA----------				
31	M	chloroprene		----------NA----------				
32	M	acrylonitrile		----------NA----------				
33	M	vinyl acetate		----------NA----------				
34		2-butanone		----------NA----------				
35	M	ethyl acetate		----------NA----------				
36	M	2,2-dichloropropane		----------NA----------				
37	M	cis-1,2-dichloroethene		----------NA----------				
38	m	methyl acrylate		----------NA----------				
39	M	propionitrile		----------NA----------				
40	M	bromochloromethane		----------NA----------				
41	M	tetrahydrofuran		----------NA----------				

Initial Calibration Verification

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Sample: VC8261-ICV8261
Lab FileID: C222647.D

42	M	chloroform		----------NA----------				
43	m	t-butyl formate		----------NA----------				
44	S	dibromofluoromethane (s)	0.412	0.420	-1.9	106	0.00	11.15
45	M	methacrylonitrile		----------NA----------				
46		cyclohexane		----------NA----------				
47	M	1,1,1-trichloroethane		----------NA----------				
48		1,1-dichloropropene		----------NA----------				
49		carbon tetrachloride		----------NA----------				
50		tert-amyl alcohol		----------NA----------				
51		isobutyl alcohol		----------NA----------				
52	I	1,4-difluorobenzene	1.000	1.000	0.0	103	0.00	12.09
53	S	1,2-dichloroethane-d4 (s)	0.274	0.292	-6.6	112	0.00	11.60
54		isopropyl acetate		----------NA----------				
55		2,2,4-trimethylpentane		----------NA----------				
56		tert-amyl methyl ether		----------NA----------				
57	M	benzene		----------NA----------				
58	M	heptane		----------NA----------				
59	M	1,2-dichloroethane		----------NA----------				
60		n-butyl alcohol		----------NA----------				
61		ethyl acrylate		----------NA----------				
62	M	trichloroethene		----------NA----------				
63	M	2-chloroethyl vinyl ether		----------NA----------				
64		2-nitropropane		----------NA----------				
65	M	methylcyclohexane		----------NA----------				
66	M	methyl methacrylate		----------NA----------				
67	M	1,2-dichloropropane		----------NA----------				
68	M	dibromomethane		----------NA----------				
69	M	bromodichloromethane		----------NA----------				
70		epichlorohydrin		----------NA----------				
71	M	cis-1,3-dichloropropene		----------NA----------				
72	M	4-methyl-2-pentanone		----------NA----------				
73	M	3-methyl-1-butanol		----------NA----------				
74	I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	15.10
75	S	toluene-d8 (s)	1.363	1.345	1.3	102	0.00	13.69
76		toluene		----------NA----------				
77		ethyl methacrylate		----------NA----------				
78		trans-1,3-dichloropropene		----------NA----------				
79		1,1,2-trichloroethane		----------NA----------				
80	M	2-hexanone		----------NA----------				
81	M	tetrachloroethene		----------NA----------				
82	M	1,3-dichloropropane		----------NA----------				
83	M	butyl acetate		----------NA----------				
84	M	dibromochloromethane		----------NA----------				
85	M	1,2-dibromoethane		----------NA----------				
86	M	n-butyl ether		----------NA----------				
87	M	chlorobenzene		----------NA----------				
88	M	1,1,1,2-tetrachloroethane		----------NA----------				
89	M	ethylbenzene		----------NA----------				
90	M	m,p-xylene		----------NA----------				
91	M	o-xylene		----------NA----------				
92	M	styrene		----------NA----------				
93		butyl acrylate		----------NA----------				
94	M	bromoform		----------NA----------				
95		isopropylbenzene		----------NA----------				
96		cis-1,4-dichloro-2-butene		----------NA----------				
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	17.14
98	S	4-bromofluorobenzene (s)	0.729	0.741	-1.6	104	0.00	16.15

Initial Calibration Verification

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Sample: VC8261-ICV8261
Lab FileID: C222647.D

```
 99 M   bromobenzene                        ----------NA----------
100 M   1,1,2,2-tetrachloroethane           ----------NA----------
101 M   trans-1,4-dichloro-2-bute           ----------NA----------
102 M   1,2,3-trichloropropane              ----------NA----------
103 M   n-propylbenzene                     ----------NA----------
104 M   2-chlorotoluene                     ----------NA----------
105 M   4-chlorotoluene                     ----------NA----------
106 M   1,3,5-trimethylbenzene              ----------NA----------
107 M   tert-butylbenzene                   ----------NA----------
108 M   1,2,4-trimethylbenzene              ----------NA----------
109 M   sec-butylbenzene                    ----------NA----------
110 M   1,3-dichlorobenzene                 ----------NA----------
111 M   p-isopropyltoluene                  ----------NA----------
112 M   1,4-dichlorobenzene                 ----------NA----------
113     benzyl chloride                     ----------NA----------
114 M   1,2-dichlorobenzene                 ----------NA----------
115 M   n-butylbenzene                      ----------NA----------
116     hexachloroethane                    ----------NA----------
117 M   1,2-dibromo-3-chloropropa           ----------NA----------
118 m   1,3,5-trichlorobenzene              ----------NA----------
119     nitrobenzene                        ----------NA----------
120     2-ethylhexyl acrylate               ----------NA----------
121 M   1,2,4-trichlorobenzene              ----------NA----------
122 M   hexachlorobutadiene                 ----------NA----------
123 M   naphthalene                         ----------NA----------
124 M   1,2,3-trichlorobenzene              ----------NA----------
125 M   2-methylnaphthalene                 ----------NA----------
 ------------------------------------------------------------------------------
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    (#) = Out of Range              SPCC's out = 0  CCC's out = 0
     C222638.D  MC8261.M         Mon Aug 13 15:31:14 2018   C
```

6.9.4

6

Continuing Calibration Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Sample: VC8293-CC8261
Lab FileID: C223284.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\ja...7-18\vc8293\c223284.d Vial: 1
Acq On    : 25 Oct 2018   8:35 am                    Operator: prashanS
Sample    : CC8261-50                                Inst    : MSC
Misc      : MS30272,VC8293,5.0,,,,1                  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MC8261.M (RTE Integrator)
Title        : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
Last Update  : Fri Oct 26 09:59:40 2018
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		Tert Butyl Alcohol-d9	1.000	1.000	0.0	120	-0.05	8.37
2	M	ethanol	0.115	0.130	-13.0	135	-0.04	6.75
3	M	tertiary butyl alcohol	1.280	1.276	0.3	117	-0.04	8.52
4		1,4-dioxane	0.101	0.103	-2.0	111	-0.03	12.70
5	I	pentafluorobenzene	1.000	1.000	0.0	106	-0.03	11.09
6	M	chlorodifluoromethane	0.469	0.489	-4.3	117	0.00	4.37
7	M	dichlorodifluoromethane	0.683	0.747	-9.4	118	0.00	4.34
8	M	chloromethane	0.751	0.760	-1.2	114	-0.01	4.76
9	M	vinyl chloride	0.715	0.686	4.1	105	-0.02	5.03
10	M	bromomethane	0.451	0.387	14.2	93	-0.02	5.77
11	M	chloroethane	0.416	0.410	1.4	108	-0.02	5.99
12		vinyl bromide	0.514	0.392	23.7#	82	-0.03	6.38
13	M	trichlorofluoromethane	0.739	0.713	3.5	108	-0.03	6.52
14	M	ethyl ether	0.238	0.225	5.5	103	-0.03	7.02
15	m	2-chloropropane	0.835	0.910	-9.0	120	-0.03	7.28
16	M	acrolein	0.059	0.062	-5.1	114	-0.04	7.30
17		freon 113	0.315	0.300	4.8	98	-0.02	7.55
18	M	1,1-dichloroethene	0.702	0.713	-1.6	111	-0.03	7.53
19	M	acetone	0.080	0.090	-12.5	129	-0.05	7.54
20	M	acetonitrile	0.035	0.041#	-17.1	131	-0.06	8.06
21	M	iodomethane	0.517	0.563	-8.9	116	-0.03	7.84
22	M	carbon disulfide	1.201	1.234	-2.7	111	-0.03	8.01
23	M	methylene chloride	0.527	0.449	14.8	106	-0.04	8.43
24	M	methyl acetate	0.209	0.242	-15.8	125	-0.04	8.12
25	M	methyl tert butyl ether	1.094	1.110	-1.5	109	-0.03	8.90
26	M	trans-1,2-dichloroethene	0.657	0.682	-3.8	112	-0.03	8.94
27		hexane	0.749	0.776	-3.6	114	-0.03	9.37
28	M	di-isopropyl ether	1.466	1.683	-14.8	122	-0.03	9.64
29	M	ethyl tert-butyl ether	1.372	1.510	-10.1	119	-0.03	10.19
30	M	1,1-dichloroethane	0.832	0.822	1.2	107	-0.04	9.64
31	M	chloroprene	0.670	0.725	-8.2	110	-0.04	9.76
32	M	acrylonitrile	0.102	0.114	-11.8	121	-0.06	8.80
33	M	vinyl acetate	0.062	0.067	-8.1	108	-0.04	9.58
34		2-butanone	0.032	0.035#	-9.4	111	-0.05	10.40
35	M	ethyl acetate	0.043	0.050	-16.3	122	-0.04	10.43
36	M	2,2-dichloropropane	0.691	0.733	-6.1	114	-0.03	10.50
37	M	cis-1,2-dichloroethene	0.500	0.488	2.4	105	-0.04	10.47
38	m	methyl acrylate	0.042	0.043#	-2.4	107	-0.04	10.52
39	M	propionitrile	0.041	0.044#	-7.3	116	-0.06	10.48
40	M	bromochloromethane	0.193	0.193	0.0	104	-0.04	10.80
41	M	tetrahydrofuran	0.092	0.095	-3.3	115	-0.04	10.81

Continuing Calibration Summary

Job Number: JC76508 **Sample:** VC8293-CC8261
Account: WSPENYC WSP Environment & Energy **Lab FileID:** C223284.D
Project: Emersub 15, LLC, Ithaca, NY

42	M	chloroform	0.774	0.747	3.5	104	-0.04	10.90
43	m	t-butyl formate	0.199	0.334	-67.8#	169	-0.04	10.94
44	S	dibromofluoromethane (s)	0.412	0.400	2.9	103	-0.04	11.11
45	M	methacrylonitrile	0.117	0.125	-6.8	113	-0.05	10.70
46		cyclohexane	0.752	0.789	-4.9	111	-0.03	11.29
47	M	1,1,1-trichloroethane	0.694	0.701	-1.0	109	-0.03	11.17
48		1,1-dichloropropene	0.633	0.623	1.6	104	-0.03	11.36
49		carbon tetrachloride	0.578	0.576	0.3	104	-0.03	11.38
50		tert-amyl alcohol	0.019	0.020#	-5.3	122	-0.04	11.50
51		isobutyl alcohol	0.015	0.016#	-6.7	122	-0.04	11.34
52	I	1,4-difluorobenzene	1.000	1.000	0.0	104	-0.03	12.05
53	S	1,2-dichloroethane-d4 (s)	0.274	0.281	-2.6	109	-0.04	11.56
54		isopropyl acetate	0.047	0.051	-8.5	112	-0.03	11.54
55		2,2,4-trimethylpentane	1.327	1.514	-14.1	122	-0.02	11.72
56		tert-amyl methyl ether	0.823	0.904	-9.8	117	-0.03	11.71
57	M	benzene	1.208	1.183	2.1	104	-0.03	11.61
58	M	heptane	0.275	0.292	-6.2	112	-0.03	11.89
59	M	1,2-dichloroethane	0.353	0.339	4.0	106	-0.04	11.65
60		n-butyl alcohol	0.006	0.007#	-16.7	114	-0.04	12.11
61		ethyl acrylate	0.242	0.273	-12.8	115	-0.03	12.36
62	M	trichloroethene	0.293	0.290	1.0	105	-0.03	12.36
		----------	True	Calc.	% Drift	----------		
63	M	2-chloroethyl vinyl ether	250.000	555.386	-122.2#	358	-0.03	13.15
		----------	AvgRF	CCRF	% Dev	----------		
64		2-nitropropane	0.052	0.063	-21.2#	132	-0.04	13.11
65	M	methylcyclohexane	0.582	0.629	-8.1	115	-0.02	12.65
66	M	methyl methacrylate	0.053	0.055	-3.8	105	-0.03	12.62
67	M	1,2-dichloropropane	0.304	0.304	0.0	105	-0.04	12.65
68	M	dibromomethane	0.142	0.139	2.1	102	-0.03	12.76
69	M	bromodichloromethane	0.355	0.361	-1.7	103	-0.03	12.92
70		epichlorohydrin	0.017	0.021#	-23.5#	122	-0.04	13.23
71	M	cis-1,3-dichloropropene	0.442	0.471	-6.6	107	-0.03	13.37
72	M	4-methyl-2-pentanone	0.076	0.089	-17.1	117	-0.03	13.46
73	M	3-methyl-1-butanol	0.010	0.012#	-20.0	120	-0.04	13.46
74	I	chlorobenzene-d5	1.000	1.000	0.0	110	-0.02	15.08
75	S	toluene-d8 (s)	1.363	1.325	2.8	107	-0.03	13.66
76		toluene	0.867	0.828	4.5	107	-0.03	13.73
77		ethyl methacrylate	0.311	0.337	-8.4	112	-0.03	13.90
78		trans-1,3-dichloropropene	0.437	0.436	0.2	109	-0.03	13.91
79		1,1,2-trichloroethane	0.196	0.194	1.0	109	-0.03	14.12
80	M	2-hexanone	0.081	0.094	-16.0	123	-0.03	14.27
81	M	tetrachloroethene	0.334	0.329	1.5	110	-0.02	14.25
82	M	1,3-dichloropropane	0.418	0.413	1.2	110	-0.03	14.29
83	M	butyl acetate	0.162	0.188	-16.0	127	-0.03	14.35
84	M	dibromochloromethane	0.250	0.254	-1.6	107	-0.03	14.53
85	M	1,2-dibromoethane	0.233	0.240	-3.0	111	-0.03	14.67
86	M	n-butyl ether	1.573	1.685	-7.1	115	-0.02	15.06
87	M	chlorobenzene	0.913	0.887	2.8	109	-0.03	15.11
88	M	1,1,1,2-tetrachloroethane	0.302	0.289	4.3	104	-0.03	15.17
89	M	ethylbenzene	1.664	1.652	0.7	110	-0.03	15.16
90	M	m,p-xylene	0.640	0.638	0.3	110	-0.02	15.27
91	M	o-xylene	1.310	1.304	0.5	110	-0.02	15.63
92	M	styrene	0.965	1.007	-4.4	108	-0.02	15.64
93		butyl acrylate	0.474	0.541	-14.1	121	-0.03	15.47
94	M	bromoform	0.143	0.155	-8.4	114	-0.03	15.85
95		isopropylbenzene	1.640	1.640	0.0	111	-0.03	15.93

Continuing Calibration Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: VC8293-CC8261
Lab FileID: C223284.D

96		cis-1,4-dichloro-2-butene	0.104	0.118	-13.5	120	-0.03	15.96
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	114	-0.02	17.12
98	S	4-bromofluorobenzene (s)	0.729	0.734	-0.7	115	-0.02	16.12
99	M	bromobenzene	0.718	0.700	2.5	112	-0.02	16.28
100	M	1,1,2,2-tetrachloroethane	0.588	0.589	-0.2	115	-0.03	16.18
101	M	trans-1,4-dichloro-2-bute	0.158	0.174	-10.1	124	-0.03	16.20
102	M	1,2,3-trichloropropane	0.162	0.163	-0.6	114	-0.03	16.26
103	M	n-propylbenzene	3.954	3.902	1.3	114	-0.02	16.29
104	M	2-chlorotoluene	0.768	0.741	3.5	110	-0.02	16.42
105	M	4-chlorotoluene	2.256	2.262	-0.3	116	-0.02	16.51
106	M	1,3,5-trimethylbenzene	2.766	2.687	2.9	112	-0.02	16.42
107	M	tert-butylbenzene	0.592	0.573	3.2	109	-0.03	16.72
108	M	1,2,4-trimethylbenzene	2.759	2.717	1.5	114	-0.02	16.76
109	M	sec-butylbenzene	3.619	3.572	1.3	113	-0.03	16.90
110	M	1,3-dichlorobenzene	1.468	1.424	3.0	114	-0.02	17.06
111	M	p-isopropyltoluene	3.021	2.986	1.2	113	-0.02	17.01
112	M	1,4-dichlorobenzene	1.482	1.419	4.3	115	-0.02	17.14
113		benzyl chloride	1.132	1.400	-23.7#	139	-0.02	17.21
114	M	1,2-dichlorobenzene	1.342	1.307	2.6	114	-0.03	17.44
115	M	n-butylbenzene	1.613	1.673	-3.7	120	-0.02	17.35
116		hexachloroethane	0.389	0.423	-8.7	117	-0.02	17.70
117	M	1,2-dibromo-3-chloropropa	0.110	0.117	-6.4	121	-0.03	18.08
118	m	1,3,5-trichlorobenzene	1.158	1.182	-2.1	125	-0.02	18.22
119		nitrobenzene		----------NA----------				
120		2-ethylhexyl acrylate	0.671	0.611	8.9	109	-0.03	18.70
121	M	1,2,4-trichlorobenzene	0.986	0.992	-0.6	122	-0.02	18.77
122	M	hexachlorobutadiene	0.540	0.590	-9.3	130	-0.02	18.86
123	M	naphthalene	1.982	2.001	-1.0	122	-0.03	19.03
124	M	1,2,3-trichlorobenzene	0.891	0.885	0.7	121	-0.03	19.23
125	M	2-methylnaphthalene	1.146	1.202	-4.9	121	-0.03	20.09

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C222638.D MC8261.M Fri Oct 26 10:44:48 2018

6.9.5

6

Initial Calibration Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Sample: VD10401-ICC10401
Lab FileID: D257661.D

Response Factor Report MSD

```
Method       : C:\MSDCHEM\1\METHODS\MD10401.M (RTE Integrator)
Title        : SW846 8260C, Rxi-624  MS 60m x 0.25mm x 1.4um
Last Update  : Fri Jun 08 10:25:46 2018
Response via : Initial Calibration

Calibration Files
1   =d257656.D   4   =d257658.D   100 =d257662.D   50  =d257661.D
20  =d257660.D   200 =d257663.D   8   =d257659.D   0.5 =d257655.D
2   =d257657.D       =
```

Compound	1	4	100	50	20	200	8	0.5	2	Avg	%RSD
1) I tert butyl alcohol-d9 ----------ISTD----------											
2) ethanol	0.143	0.134	0.135	0.133	0.125	0.132			0.150	0.136	5.82
3) tertiary butyl alcohol	1.324	1.371	1.342	1.352	1.363	1.239			1.038	1.290	9.26
4) 1,4-dioxane	0.107	0.134	0.124	0.121	0.137	0.110				0.122	9.84
5) I pentafluorobenzene ----------ISTD----------											
6) chlorodifluoromethane	0.935	1.315	1.268	1.306	1.260	1.159	1.226		1.126	1.199	10.49
7) dichlorodifluoromethane	1.029	1.400	1.486	1.409	1.443	1.306	1.419		1.253	1.343	10.95
8) chloromethane	1.339	1.451	1.473	1.432	1.467	1.344	1.441	1.281	1.445	1.408	4.87
9) 1,3-butadiene										0.000	-1.00
10) vinyl chloride	1.086	1.344	1.401	1.311	1.356	1.282	1.326	1.181	1.262	1.283	7.56
11) bromomethane	0.751	0.794	0.747	0.772	0.751	0.743			0.704	0.752	3.64
12) chloroethane	0.659	0.728	0.730	0.680	0.702	0.676	0.710		0.699	0.698	3.58
13) trichlorofluoromethane	1.177	1.346	1.375	1.289	1.330	1.253	1.319		1.320	1.301	4.75
14) vinyl bromide	0.680	0.701	0.761	0.698	0.724	0.720	0.711	0.585	0.709	0.699	6.88
15) ethyl ether	0.287	0.320	0.309	0.300	0.299	0.292			0.272	0.297	5.23
16) 2-chloropropane	1.175	1.375	1.266	1.217	1.284	1.186	1.271		1.360	1.267	5.83
17) acrolein		0.124	0.119	0.119	0.119	0.111				0.118	3.72
18) freon 113	0.610	0.614	0.585	0.596	0.583	0.574			0.517	0.583	5.57
19) 1,1-dichloroethene	0.562	0.713	0.697	0.647	0.682	0.672	0.697	0.583	0.651	0.656	7.98
20) acetone	0.042	0.046	0.044	0.043	0.045	0.039			0.032	0.042	10.97
21) acetonitrile	0.100	0.093	0.091	0.093	0.090	0.089				0.093	4.26
22) iodomethane	0.840	1.025	1.044	0.982	1.001	1.020	0.982		0.965	0.982	6.44
23) carbon disulfide											

Initial Calibration Summary

Job Number: JC76508 **Sample:** VD10401-ICC10401
Account: WSPENYC WSP Environment & Energy **Lab FileID:** D257661.D
Project: Emersub 15, LLC, Ithaca, NY

	1.834	2.307	2.308	2.172	2.222	2.200	2.187	2.033	2.203	2.163	6.81
24) methylene chloride											
	0.570	0.780	0.737	0.707	0.735	0.719	0.713		0.753	0.714	8.80
25) methyl acetate											
		0.415	0.381	0.387	0.394	0.363	0.365		0.395	0.386	4.73
26) methyl tert butyl ether											
	1.865	2.316	2.278	2.250	2.287	2.226	2.100	2.347	2.150	2.202	6.75
27) trans-1,2-dichloroethene											
	0.494	0.648	0.617	0.581	0.591	0.581	0.605		0.583	0.588	7.55
28) hexane											
		0.414	0.438	0.417	0.428	0.397	0.418		0.394	0.415	3.77
29) di-isopropyl ether											
	1.950	2.398	2.405	2.317	2.331	2.353	2.239	2.061	2.177	2.248	7.01
30) 2-butanone											
		0.050	0.057	0.056	0.053	0.056	0.049		0.046	0.052	7.83
31) 1,1-dichloroethane											
	0.888	1.089	1.119	1.078	1.109	1.048	1.057	0.989	1.062	1.049	6.78
32) chloroprene											
	0.710	0.922	0.989	0.943	0.930	0.913	0.915	0.726	0.873	0.880	11.02
33) acrylonitrile											
		0.167	0.183	0.172	0.172	0.178	0.160		0.129	0.166	10.68
34) vinyl acetate											
		0.078	0.105	0.107	0.101	0.105	0.087			0.097	12.02
35) ethyl tert-butyl ether											
	1.870	2.455	2.591	2.500	2.512	2.557	2.258	1.933	2.311	2.332	11.46
36) ethyl acetate											
		0.074	0.087	0.083	0.077	0.083	0.074			0.080	7.14
37) 2,2-dichloropropane											
	1.042	1.257	1.217	1.162	1.210	1.153	1.177	1.216	1.209	1.183	5.20
38) cis-1,2-dichloroethene											
	0.544	0.636	0.676	0.640	0.656	0.634	0.634	0.552	0.654	0.625	7.32
39) propionitrile											
	0.070	0.088	0.090	0.089	0.089	0.087	0.086		0.087	0.086	7.78
40) methyl acrylate											
		0.053	0.075	0.071	0.069	0.074	0.056			0.066	14.31
41) methacrylonitrile											
		0.198	0.212	0.203	0.208	0.207	0.191		0.160	0.197	9.06
42) bromochloromethane											
	0.210	0.281	0.309	0.298	0.298	0.299	0.277		0.262	0.279	11.37
43) tetrahydrofuran											
		0.161	0.196	0.195	0.172	0.190	0.156			0.178	9.98
44) chloroform											
	0.921	1.078	1.060	1.022	1.042	0.999	1.006	1.007	1.033	1.019	4.42
45) tert-butyl formate											
	0.482	0.680	0.713	0.681	0.680	0.695	0.641		0.635	0.651	11.21
46) dibromofluoromethane (s)											
	0.479	0.478	0.487	0.482	0.489	0.478	0.487	0.500	0.494	0.486	1.61
47) 1,1,1-trichloroethane											
	1.025	1.186	1.229	1.170	1.191	1.174	1.151	0.991	1.132	1.139	6.96
48) cyclohexane											
	1.107	1.322	1.415	1.323	1.360	1.335	1.399		1.320	1.322	7.13
49) isobutyl alcohol											
										0.000	-1.00
50) 1,1-dichloropropene											
	0.733	0.824	0.844	0.799	0.826	0.775	0.793		0.805	0.800	4.32
51) carbon tetrachloride											
	0.749	0.990	1.030	0.975	0.995	0.978	0.948		0.924	0.949	9.12
52) tert-amyl alcohol											
		0.042	0.041	0.040	0.042	0.040	0.042		0.040	0.041	2.40
53) isopropyl acetate											

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                  0.119 0.132 0.128 0.126 0.127 0.115                0.124    5.25

54) I   1,4-difluorobenzene   ----------------ISTD--------------------
55)  1,2-dichloroethane-d4 (s)
            0.358 0.376 0.361 0.365 0.377 0.344 0.374 0.371 0.363   0.366    2.85
56)  n-butyl alcohol
                  0.019 0.014 0.014 0.014 0.014 0.016                0.015   12.75
57)  2,2,4-trimethylpentane
            1.374 1.848 2.177 1.956 1.913 2.029 1.787       1.589   1.834   13.84
58)  benzene
            1.341 1.597 1.604 1.531 1.569 1.518 1.500 1.406 1.546   1.512    5.77
59)  tert-amyl methyl ether
            1.225 1.463 1.526 1.449 1.475 1.510 1.385 1.299 1.410   1.416    7.01
60)  heptane
                  0.304 0.327 0.309 0.318 0.300 0.316       0.305   0.311    3.11
61)  1,2-dichloroethane
            0.383 0.532 0.506 0.491 0.506 0.470 0.476       0.482   0.481    9.20
62)  ethyl acrylate
                  0.406 0.421 0.399 0.403 0.410 0.375       0.385   0.400    3.88
63)  trichloroethene
            0.310 0.371 0.386 0.362 0.376 0.362 0.363 0.306 0.350   0.354    7.96
64)  2-chloroethyl vinyl ether
            0.161 0.200 0.219 0.208 0.204 0.212 0.194       0.192   0.199    8.86
65)  methyl methacrylate
                  0.069 0.094 0.088 0.087 0.094 0.077                0.085   11.61
66)  methylcyclohexane
            0.732 0.899 0.954 0.872 0.897 0.903 0.847       0.832   0.867    7.64
67)  1,2-dichloropropane
            0.311 0.412 0.418 0.397 0.409 0.399 0.382       0.404   0.392    8.78
68)  dibromomethane
            0.152 0.223 0.222 0.217 0.223 0.216 0.216       0.215   0.210   11.29
69)  bromodichloromethane
            0.396 0.516 0.548 0.523 0.520 0.527 0.507 0.447 0.488   0.497    9.58
70)  2-nitropropane
                  0.077 0.086 0.083 0.088 0.082 0.082                0.083    4.31
71)  epichlorohydrin
                  0.036 0.040 0.038 0.040 0.039 0.036       0.037   0.038    4.26
72)  cis-1,3-dichloropropene
            0.526 0.634 0.660 0.623 0.636 0.641 0.604 0.485 0.585   0.599    9.73
73)  4-methyl-2-pentanone
            0.117 0.152 0.153 0.144 0.148 0.149 0.142       0.145   0.144    7.94
74)  isoamyl alcohol
                  0.013 0.015 0.014 0.014 0.014 0.013       0.012   0.013    7.90

75) I   chlorobenzene-d5      ----------------ISTD--------------------
76)  toluene-d8 (s)
            1.334 1.345 1.265 1.322 1.345 1.240 1.331 1.369 1.344   1.322    3.15
77)  toluene
            0.881 1.062 1.013 1.010 1.038 0.954 0.986 0.913 0.973   0.981    5.94
78)  ethyl methacrylate
            0.375 0.506 0.494 0.493 0.507 0.472 0.470       0.454   0.471    9.15
79)  trans-1,3-dichloropropene
            0.486 0.600 0.573 0.576 0.587 0.538 0.567 0.496 0.567   0.554    7.16
80)  1,1,2-trichloroethane
            0.249 0.281 0.269 0.269 0.275 0.254 0.262       0.284   0.268    4.64
81)  tetrachloroethene
            0.251 0.332 0.331 0.323 0.335 0.311 0.323 0.240 0.304   0.306   11.64
82)  2-hexanone
            0.095 0.145 0.131 0.131 0.140 0.123 0.135       0.133   0.129   11.65
83)  1,3-dichloropropane
```

```
            0.453 0.582 0.553 0.554 0.577 0.525 0.546       0.558   0.544    7.50
 84)  butyl acetate
                  0.273 0.247 0.243 0.265 0.235 0.261       0.256   0.254    5.31
 85)  dibromochloromethane
            0.310 0.398 0.396 0.388 0.398 0.379 0.367       0.371   0.376    7.79
 86)  1,2-dibromoethane
            0.264 0.356 0.340 0.342 0.348 0.327 0.321       0.331   0.329    8.64
 87)  n-butyl ether
            1.868 2.299 1.974 2.000 2.140 1.836 2.109 1.818 2.137   2.020    8.10
 88)  chlorobenzene
            0.861 1.119 1.099 1.061 1.073 1.058 1.022 0.957 1.013   1.029    7.72
 89)  1,1,1,2-tetrachloroethane
            0.367 0.488 0.476 0.471 0.486 0.458 0.463       0.465   0.459    8.41
 90)  ethylbenzene
            1.577 2.001 1.970 1.915 1.971 1.887 1.884 1.666 1.867   1.860    7.75
 91)  m,p-xylene
            0.602 0.749 0.770 0.739 0.750 0.748 0.714 0.652 0.693   0.713    7.70
 92)  o-xylene
            1.430 1.723 1.734 1.692 1.727 1.677 1.645 1.581 1.636   1.650    5.84
 93)  styrene
            0.986 1.229 1.262 1.225 1.240 1.248 1.198 1.049 1.183   1.180    8.17
 94)  butyl acrylate
            0.729 0.958 0.837 0.848 0.898 0.787 0.872       0.856   0.848    8.11
 95)  isopropylbenzene
            1.850 2.314 2.301 2.240 2.287 2.191 2.171 2.063 2.137   2.173    6.75
 96)  bromoform
            0.169 0.273 0.255 0.257 0.263 0.254 0.240       0.235   0.243   13.23
 97)  cis-1,4-dichloro-2-butene
                  0.178 0.173 0.180 0.174 0.166 0.159       0.182   0.173    4.81

 98) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 99)  4-bromofluorobenzene (s)
            0.764 0.755 0.745 0.746 0.760 0.714 0.756 0.756 0.777   0.752    2.29
100)  1,1,2,2-tetrachloroethane
            0.657 0.804 0.745 0.729 0.780 0.690 0.724       0.773   0.738    6.57
101)  trans-1,4-dichloro-2-butene
                  0.216 0.195 0.197 0.204 0.179 0.199       0.200   0.199    5.60
102)  1,2,3-trichloropropane
                  0.233 0.207 0.202 0.214 0.191 0.196       0.216   0.208    6.81
103)  bromobenzene
            0.577 0.730 0.767 0.725 0.750 0.725 0.725 0.632 0.703   0.704    8.61
104)  n-propylbenzene
            3.172 3.854 3.892 3.640 3.815 3.546 3.690 3.313 3.661   3.620    6.73
105)  2-chlorotoluene
            0.606 0.782 0.823 0.765 0.769 0.768 0.741 0.626 0.719   0.733    9.90
106)  4-chlorotoluene
            1.881 2.260 2.284 2.171 2.251 2.134 2.125 1.956 2.138   2.133    6.41
107)  1,3,5-trimethylbenzene
            2.481 3.112 3.260 3.017 3.123 3.002 2.923 2.618 2.881   2.935    8.45
108)  tert-butylbenzene
            2.157 2.622 2.936 2.700 2.796 2.663 2.617       2.513   2.625    8.69
109)  1,2,4-trimethylbenzene
            2.513 3.160 3.224 2.998 3.138 2.984 2.986 2.622 2.896   2.947    8.14
110)  sec-butylbenzene
            3.289 4.041 4.392 4.078 4.228 3.912 3.938       3.778   3.957    8.36
111)  p-isopropyltoluene
            2.734 3.463 3.721 3.465 3.604 3.392 3.337 3.057 3.313   3.343    8.83
112)  1,3-dichlorobenzene
            1.348 1.647 1.662 1.591 1.623 1.584 1.556 1.347 1.564   1.547    7.67
113)  1,4-dichlorobenzene
```

Initial Calibration Summary

Job Number: JC76508 **Sample:** VD10401-ICC10401
Account: WSPENYC WSP Environment & Energy **Lab FileID:** D257661.D
Project: Emersub 15, LLC, Ithaca, NY

```
            1.364 1.658 1.689 1.630 1.657 1.625 1.583 1.439 1.632   1.586    6.95
114)  1,2-dichlorobenzene
            1.427 1.758 1.746 1.685 1.750 1.649 1.639 1.707 1.703   1.674    6.08
115)  benzyl chloride
            1.642 1.922 1.800 1.779 1.868 1.706 1.734 1.708 1.869   1.781    5.18
116)  n-butylbenzene
            1.311 1.747 1.889 1.775 1.851 1.744 1.720 1.417 1.679   1.682   11.47
117)  2-ethylhexyl acrylate
                        0.886 0.691 0.565 0.874 0.427               0.688   28.79
             ----- Linear regression -----  Coefficient =  0.9950
               Response Ratio = -0.01927 + 0.89078 *A

118)  hexachloroethane
            0.478 0.541 0.639 0.585 0.586 0.595 0.535       0.518   0.560    9.13
119)  1,2-dibromo-3-chloropropane
                  0.183 0.185 0.179 0.190 0.167 0.174       0.179   0.180    4.20
120)  1,3,5-trichlorobenzene
            1.364 1.584 1.746 1.640 1.715 1.565 1.534 1.420 1.500   1.563    8.09
121)  1,2,4-trichlorobenzene
            0.977 1.293 1.490 1.389 1.465 1.310 1.271 1.236 1.142   1.286   12.41
122)  hexachlorobutadiene
            0.511 0.684 0.767 0.699 0.734 0.656 0.686       0.613   0.669   11.77
123)  naphthalene
            1.990 2.662 3.115 2.947 3.005 2.752 2.652 2.541 2.453   2.680   12.65
124)  1,2,3-trichlorobenzene
            0.938 1.077 1.277 1.206 1.225 1.122 1.082 0.915 1.043   1.098   11.29
125)  2-methylnaphthalene
                        1.322 1.145 1.052 1.190 0.781               1.098   18.41
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MD10401.M         Fri Jun 08 10:27:13 2018   RPT1
```

Initial Calibration Verification

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Sample: VD10401-ICV10401
Lab FileID: D257666.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\vd10401\d257666.D Vial: 13
Acq On : 6 Jun 2018 11:25 pm Operator: thienn
Sample : ICV10401-50 Inst : MSD
Misc : ms26799,vd10401,5.0,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MD10401.M (RTE Integrator)
Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
Last Update : Fri Jun 08 10:25:46 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	97	0.00	7.57
2	ethanol	0.136	0.126	7.4	91	-0.03	6.36
3	tertiary butyl alcohol	1.290	1.298	-0.6	94	-0.01	7.68
4	1,4-dioxane	0.122	0.114	6.6	90	0.00	11.46
5 I	pentafluorobenzene	1.000	1.000	0.0	104	0.00	9.83
6	chlorodifluoromethane	1.199	0.920	23.3	73	0.00	4.45
7	dichlorodifluoromethane	1.343	1.248	7.1	92	0.02	4.44
8	chloromethane	1.408	1.456	-3.4	106	0.00	4.82
9	1,3-butadiene		----------NA----------				
10	vinyl chloride	1.283	1.286	-0.2	102	0.00	5.05
11	bromomethane	0.752	0.759	-0.9	106	0.00	5.62
12	chloroethane	0.698	0.666	4.6	102	-0.01	5.76
13	trichlorofluoromethane	1.301	1.243	4.5	100	0.00	6.22
14	vinyl bromide	0.699	0.770	-10.2	115	0.00	6.10
15	ethyl ether	0.297	0.289	2.7	98	0.00	6.55
16	2-chloropropane	1.267	1.219	3.8	104	0.01	6.78
17	acrolein	0.118	0.118	0.0	104	0.00	6.74
18	freon 113	0.583	0.600	-2.9	107	0.00	7.01
19	1,1-dichloroethene	0.656	0.592	9.8	95	0.00	6.98
20	acetone	0.042	0.044	-4.8	103	0.00	6.93
21	acetonitrile		----------NA----------				
22	iodomethane	0.982	1.142	-16.3	121	0.00	7.23
23	carbon disulfide	2.163	2.735	-26.4	131	0.00	7.39
24	methylene chloride	0.714	0.680	4.8	100	0.00	7.63
25	methyl acetate	0.386	0.351	9.1	95	0.00	7.38
26	methyl tert butyl ether	2.202	2.124	3.5	99	0.00	8.01
27	trans-1,2-dichloroethene	0.588	0.549	6.6	98	0.00	8.03
28	hexane	0.415	0.359	13.5	90	0.00	8.40
29	di-isopropyl ether	2.248	2.252	-0.2	101	0.00	8.59
30	2-butanone	0.052	0.055	-5.8	103	0.00	9.21
31	1,1-dichloroethane	1.049	1.018	3.0	98	0.00	8.59
32	chloroprene	0.880	0.915	-4.0	101	0.00	8.70
33	acrylonitrile	0.166	0.175	-5.4	106	0.00	7.88
34	vinyl acetate	0.097	0.109	-12.4	106	0.00	8.51
35	ethyl tert-butyl ether	2.332	2.396	-2.7	100	0.00	9.06
36	ethyl acetate	0.080	0.080	0.0	99	0.00	9.23
37	2,2-dichloropropane	1.183	1.076	9.0	96	0.00	9.35
38	cis-1,2-dichloroethene	0.625	0.626	-0.2	102	0.00	9.30
39	propionitrile	0.086	0.084	2.3	99	0.00	9.26
40	methyl acrylate	0.066	0.070	-6.1	102	0.00	9.32
41	methacrylonitrile	0.197	0.200	-1.5	102	0.00	9.48

Initial Calibration Verification

Job Number: JC76508 **Sample:** VD10401-ICV10401
Account: WSPENYC WSP Environment & Energy **Lab FileID:** D257666.D
Project: Emersub 15, LLC, Ithaca, NY

42		bromochloromethane	0.279	0.287	-2.9	100	0.00	9.59
43		tetrahydrofuran	0.178	0.177	0.6	95	0.00	9.62
44		chloroform	1.019	0.985	3.3	100	0.00	9.67
45		tert-butyl formate	0.651	0.550	15.5	84	0.00	9.72
46	S	dibromofluoromethane (s)	0.486	0.478	1.6	103	0.00	9.86
47		1,1,1-trichloroethane	1.139	1.090	4.3	97	0.00	9.97
48		cyclohexane	1.322	1.282	3.0	101	0.00	10.11
49		isobutyl alcohol		----------NA----------				
50		1,1-dichloropropene	0.800	0.767	4.1	100	0.00	10.13
51		carbon tetrachloride	0.949	0.922	2.8	98	0.00	10.18
52		tert-amyl alcohol	0.041	0.038	7.3	99	0.00	10.22
53		isopropyl acetate	0.124	0.116	6.5	95	0.00	10.26
54	I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	10.79
55	S	1,2-dichloroethane-d4 (s)	0.366	0.355	3.0	99	0.00	10.29
56		n-butyl alcohol	0.015	0.013	13.3	94	0.00	10.80
57		2,2,4-trimethylpentane	1.834	1.867	-1.8	98	0.00	10.50
58		benzene	1.512	1.493	1.3	100	0.00	10.38
59		tert-amyl methyl ether	1.416	1.439	-1.6	102	0.00	10.47
60		heptane	0.311	0.324	-4.2	107	0.00	10.65
61		1,2-dichloroethane	0.481	0.469	2.5	98	0.00	10.39
62		ethyl acrylate	0.400	0.398	0.5	102	0.00	11.08
63		trichloroethene	0.354	0.354	0.0	100	0.00	11.12
64		2-chloroethyl vinyl ether	0.199	0.217	-9.0	107	0.00	11.92
65		methyl methacrylate	0.085	0.088	-3.5	103	0.00	11.36
66		methylcyclohexane	0.867	0.834	3.8	98	0.00	11.46
67		1,2-dichloropropane	0.392	0.380	3.1	98	0.00	11.41
68		dibromomethane	0.210	0.214	-1.9	101	0.00	11.52
69		bromodichloromethane	0.497	0.499	-0.4	98	0.00	11.68
70		2-nitropropane	0.083	0.082	1.2	101	0.00	11.86
71		epichlorohydrin	0.038	0.036	5.3	98	0.00	12.00
72		cis-1,3-dichloropropene	0.599	0.604	-0.8	99	0.00	12.17
73		4-methyl-2-pentanone	0.144	0.142	1.4	101	0.00	12.27
74		isoamyl alcohol	0.013	0.013	0.0	95	0.00	12.26
75	I	chlorobenzene-d5	1.000	1.000	0.0	102	0.00	14.19
76	S	toluene-d8 (s)	1.322	1.314	0.6	101	0.00	12.52
77		toluene	0.981	0.999	-1.8	101	0.00	12.60
78		ethyl methacrylate	0.471	0.457	3.0	94	0.00	12.77
79		trans-1,3-dichloropropene	0.554	0.539	2.7	95	0.00	12.78
80		1,1,2-trichloroethane	0.268	0.260	3.0	98	0.00	13.02
81		tetrachloroethene		----------NA----------				
82		2-hexanone	0.129	0.126	2.3	98	0.00	13.20
83		1,3-dichloropropane	0.544	0.554	-1.8	102	0.00	13.22
84		butyl acetate	0.254	0.242	4.7	101	0.00	13.30
85		dibromochloromethane	0.376	0.398	-5.9	104	0.00	13.50
86		1,2-dibromoethane	0.329	0.335	-1.8	100	0.00	13.68
87		n-butyl ether	2.020	1.900	5.9	96	0.00	14.19
88		chlorobenzene	1.029	1.033	-0.4	99	0.00	14.23
89		1,1,1,2-tetrachloroethane	0.459	0.474	-3.3	102	0.00	14.30
90		ethylbenzene	1.860	1.885	-1.3	100	0.00	14.30
91		m,p-xylene	0.713	0.733	-2.8	101	0.00	14.44
92		o-xylene	1.650	1.658	-0.5	100	0.00	14.89
93		styrene	1.180	1.198	-1.5	99	0.00	14.90
94		butyl acrylate	0.848	0.820	3.3	98	0.00	14.69
95		isopropylbenzene	2.173	2.219	-2.1	101	0.00	15.29
96		bromoform	0.243	0.261	-7.4	103	0.00	15.15
97		cis-1,4-dichloro-2-butene	0.173	0.159	8.1	90	0.00	15.30
98	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	16.83

Initial Calibration Verification

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: VD10401-ICV10401
Lab FileID: D257666.D

99	S	4-bromofluorobenzene (s)	0.752	0.743	1.2	99	0.00	15.51
100		1,1,2,2-tetrachloroethane	0.738	0.713	3.4	97	0.00	15.57
101		trans-1,4-dichloro-2-bute	0.199	0.203	-2.0	102	0.00	15.62
102		1,2,3-trichloropropane	0.208	0.199	4.3	97	0.00	15.68
103		bromobenzene	0.704	0.727	-3.3	99	0.00	15.72
104		n-propylbenzene	3.620	3.614	0.2	98	0.00	15.76
105		2-chlorotoluene	0.733	0.740	-1.0	96	0.00	15.91
106		4-chlorotoluene	2.133	2.181	-2.3	99	0.00	16.03
107		1,3,5-trimethylbenzene	2.935	2.999	-2.2	98	0.00	15.94
108		tert-butylbenzene	2.625	2.756	-5.0	101	0.00	16.32
109		1,2,4-trimethylbenzene	2.947	3.070	-4.2	101	0.00	16.38
110		sec-butylbenzene	3.957	4.116	-4.0	100	0.00	16.57
111		p-isopropyltoluene	3.343	3.462	-3.6	99	0.00	16.72
112		1,3-dichlorobenzene	1.547	1.570	-1.5	98	0.00	16.76
113		1,4-dichlorobenzene	1.586	1.607	-1.3	97	0.00	16.86
114		1,2-dichlorobenzene	1.674	1.671	0.2	98	0.00	17.28
115		benzyl chloride	1.781	1.376	22.7	76	0.00	16.96
116		n-butylbenzene	1.682	1.758	-4.5	98	0.00	17.18
		----------	True	Calc.	% Drift	----------		
117		2-ethylhexyl acrylate	10.000	9.758	2.4	111	0.00	19.08
		----------	AvgRF	CCRF	% Dev	----------		
118		hexachloroethane	0.560	0.593	-5.9	100	0.00	17.63
119		1,2-dibromo-3-chloropropa	0.180	0.179	0.6	99	0.00	18.12
120		1,3,5-trichlorobenzene	1.563	1.653	-5.8	100	0.00	18.35
121		1,2,4-trichlorobenzene	1.286	1.417	-10.2	101	0.00	19.09
122		hexachlorobutadiene	0.669	0.689	-3.0	97	0.00	19.23
123		naphthalene	2.680	2.980	-11.2	100	0.00	19.43
124		1,2,3-trichlorobenzene	1.098	1.209	-10.1	99	0.00	19.70
125		2-methylnaphthalene	1.098	1.098	0.0	95	0.00	20.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
d257661.D MD10401.M Fri Jun 08 10:26:58 2018 RPT1

Initial Calibration Verification

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Sample: VD10401-ICV10401
Lab FileID: D257667.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\d257667.D                    Vial: 14
Acq On    :  6 Jun 2018  11:55 pm                     Operator: thienn
Sample    : ICV10401-50                               Inst    : MSD
Misc      : ms26799,vd10401,5.0,,100,5,1              Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MD10401.M (RTE Integrator)
Title        : SW846 8260C, Rxi-624  MS 60m x 0.25mm x 1.4um
Last Update  : Thu Jun 07 09:08:49 2018
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	105	0.01	7.59
2		ethanol		----------NA----------				
3		tertiary butyl alcohol		----------NA----------				
4		1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	102	0.00	9.83
6		chlorodifluoromethane		----------NA----------				
7		dichlorodifluoromethane		----------NA----------				
8		chloromethane		----------NA----------				
9		1,3-butadiene		----------NA----------				
10		vinyl chloride		----------NA----------				
11		bromomethane		----------NA----------				
12		chloroethane		----------NA----------				
13		trichlorofluoromethane		----------NA----------				
14		vinyl bromide		----------NA----------				
15		ethyl ether		----------NA----------				
16		2-chloropropane		----------NA----------				
17		acrolein		----------NA----------				
18		freon 113		----------NA----------				
19		1,1-dichloroethene		----------NA----------				
20		acetone		----------NA----------				
21		acetonitrile	0.093	0.088	5.4	100	0.00	7.33
22		iodomethane		----------NA----------				
23		carbon disulfide		----------NA----------				
24		methylene chloride		----------NA----------				
25		methyl acetate		----------NA----------				
26		methyl tert butyl ether		----------NA----------				
27		trans-1,2-dichloroethene		----------NA----------				
28		hexane		----------NA----------				
29		di-isopropyl ether		----------NA----------				
30		2-butanone		----------NA----------				
31		1,1-dichloroethane		----------NA----------				
32		chloroprene		----------NA----------				
33		acrylonitrile		----------NA----------				
34		vinyl acetate		----------NA----------				
35		ethyl tert-butyl ether		----------NA----------				
36		ethyl acetate		----------NA----------				
37		2,2-dichloropropane		----------NA----------				
38		cis-1,2-dichloroethene		----------NA----------				
39		propionitrile		----------NA----------				
40		methyl acrylate		----------NA----------				
41		methacrylonitrile		----------NA----------				

Initial Calibration Verification

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Sample: VD10401-ICV10401
Lab FileID: D257667.D

42		bromochloromethane		----------NA----------				
43		tetrahydrofuran		----------NA----------				
44		chloroform		----------NA----------				
45		tert-butyl formate		----------NA----------				
46	S	dibromofluoromethane (s)	0.486	0.474	2.5	101	0.00	9.86
47		1,1,1-trichloroethane		----------NA----------				
48		cyclohexane		----------NA----------				
49		isobutyl alcohol		----------NA----------				
50		1,1-dichloropropene		----------NA----------				
51		carbon tetrachloride		----------NA----------				
52		tert-amyl alcohol		----------NA----------				
53		isopropyl acetate		----------NA----------				
54	I	1,4-difluorobenzene	1.000	1.000	0.0	100	0.00	10.79
55	S	1,2-dichloroethane-d4 (s)	0.366	0.356	2.7	97	0.00	10.30
56		n-butyl alcohol		----------NA----------				
57		2,2,4-trimethylpentane		----------NA----------				
58		benzene		----------NA----------				
59		tert-amyl methyl ether		----------NA----------				
60		heptane		----------NA----------				
61		1,2-dichloroethane		----------NA----------				
62		ethyl acrylate		----------NA----------				
63		trichloroethene		----------NA----------				
64		2-chloroethyl vinyl ether		----------NA----------				
65		methyl methacrylate		----------NA----------				
66		methylcyclohexane		----------NA----------				
67		1,2-dichloropropane		----------NA----------				
68		dibromomethane		----------NA----------				
69		bromodichloromethane		----------NA----------				
70		2-nitropropane		----------NA----------				
71		epichlorohydrin		----------NA----------				
72		cis-1,3-dichloropropene		----------NA----------				
73		4-methyl-2-pentanone		----------NA----------				
74		isoamyl alcohol		----------NA----------				
75	I	chlorobenzene-d5	1.000	1.000	0.0	97	0.00	14.19
76	S	toluene-d8 (s)	1.322	1.297	1.9	95	0.00	12.52
77		toluene		----------NA----------				
78		ethyl methacrylate		----------NA----------				
79		trans-1,3-dichloropropene		----------NA----------				
80		1,1,2-trichloroethane		----------NA----------				
81		tetrachloroethene	0.306	0.307	-0.3	92	0.00	13.22
82		2-hexanone		----------NA----------				
83		1,3-dichloropropane		----------NA----------				
84		butyl acetate		----------NA----------				
85		dibromochloromethane		----------NA----------				
86		1,2-dibromoethane		----------NA----------				
87		n-butyl ether		----------NA----------				
88		chlorobenzene		----------NA----------				
89		1,1,1,2-tetrachloroethane		----------NA----------				
90		ethylbenzene		----------NA----------				
91		m,p-xylene		----------NA----------				
92		o-xylene		----------NA----------				
93		styrene		----------NA----------				
94		butyl acrylate		----------NA----------				
95		isopropylbenzene		----------NA----------				
96		bromoform		----------NA----------				
97		cis-1,4-dichloro-2-butene		----------NA----------				
98	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	16.84

Initial Calibration Verification

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: VD10401-ICV10401
Lab FileID: D257667.D

```
 99 S   4-bromofluorobenzene (s)    0.752   0.781     -3.9  106   0.00   15.51
100     1,1,2,2-tetrachloroethane          ----------NA----------
101     trans-1,4-dichloro-2-bute          ----------NA----------
102     1,2,3-trichloropropane             ----------NA----------
103     bromobenzene                       ----------NA----------
104     n-propylbenzene                    ----------NA----------
105     2-chlorotoluene                    ----------NA----------
106     4-chlorotoluene                    ----------NA----------
107     1,3,5-trimethylbenzene             ----------NA----------
108     tert-butylbenzene                  ----------NA----------
109     1,2,4-trimethylbenzene             ----------NA----------
110     sec-butylbenzene                   ----------NA----------
111     p-isopropyltoluene                 ----------NA----------
112     1,3-dichlorobenzene                ----------NA----------
113     1,4-dichlorobenzene                ----------NA----------
114     1,2-dichlorobenzene                ----------NA----------
115     benzyl chloride                    ----------NA----------
116     n-butylbenzene                     ----------NA----------

            ------------------------ True    Calc.   % Drift  ------------
117     2-ethylhexyl acrylate              ----------NA----------

            ------------------------ AvgRF   CCRF     % Dev   -------------
118     hexachloroethane                   ----------NA----------
119     1,2-dibromo-3-chloropropa          ----------NA----------
120     1,3,5-trichlorobenzene             ----------NA----------
121     1,2,4-trichlorobenzene             ----------NA----------
122     hexachlorobutadiene                ----------NA----------
123     naphthalene                        ----------NA----------
124     1,2,3-trichlorobenzene             ----------NA----------
125     2-methylnaphthalene                ----------NA----------
 ---------------------------------------------------------------------------
 ---------------------------------------------------------------------------

    (#) = Out of Range              SPCC's out = 0  CCC's out = 0
     d257661.D  MD10401.M        Thu Jun 07 09:15:12 2018   RPT1
```

Continuing Calibration Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Sample: VD10499-CC10401
Lab FileID: D260117.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\ma...-18\vd10499\d260117.d Vial: 3
Acq On    : 24 Oct 2018   8:00 am                    Operator: thienn
Sample    : cc10401-50                               Inst    : MSD
Misc      : ms27208,vd10499,5,,100,5,1               Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MD10401.M (RTE Integrator)
Title        : SW846 8260C, Rxi-624  MS 60m x 0.25mm x 1.4um
Last Update  : Thu Jun 07 09:08:49 2018
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	62	-0.08	7.49
2	ethanol	0.136	0.157	-15.4	72	-0.16	6.23
3	tertiary butyl alcohol	1.290	1.278	0.9	59	-0.09	7.60
4	1,4-dioxane	0.122	0.121	0.8	61	-0.08	11.38
5 I	pentafluorobenzene	1.000	1.000	0.0	67	-0.08	9.75
6	chlorodifluoromethane	1.199	1.486	-23.9#	76	-0.04	4.41
7	dichlorodifluoromethane	1.343	1.437	-7.0	68	-0.02	4.41
8	chloromethane	1.408	1.404	0.3	65	-0.03	4.78
9	1,3-butadiene		----------NA----------				
10	vinyl chloride	1.283	1.322	-3.0	67	-0.05	5.00
11	bromomethane	0.752	0.740	1.6	66	-0.03	5.59
12	chloroethane	0.698	0.702	-0.6	69	-0.05	5.72
13	trichlorofluoromethane	1.301	1.370	-5.3	71	-0.05	6.18
14	vinyl bromide	0.699	0.748	-7.0	71	-0.04	6.06
15	ethyl ether	0.297	0.279	6.1	60	-0.06	6.48
16	2-chloropropane	1.265	1.277	-0.9	70	-0.07	6.70
17	acrolein	0.118	0.150	-27.1#	84	-0.07	6.67
18	freon 113	0.583	0.682	-17.0	78	-0.05	6.95
19	1,1-dichloroethene	0.656	0.631	3.8	65	-0.07	6.91
20	acetone	0.042	0.040	4.8	60	-0.07	6.86
21	acetonitrile	0.093	0.085	8.6	62	-0.10	7.23
22	iodomethane	0.982	1.066	-8.6	72	-0.08	7.15
23	carbon disulfide	2.163	2.255	-4.3	69	-0.08	7.32
24	methylene chloride	0.714	0.655	8.3	62	-0.08	7.56
25	methyl acetate	0.386	0.341	11.7	59	-0.06	7.32
26	methyl tert butyl ether	2.202	2.023	8.1	60	-0.08	7.93
27	trans-1,2-dichloroethene	0.588	0.547	7.0	63	-0.07	7.96
28	hexane	0.415	0.430	-3.6	69	-0.07	8.33
29	di-isopropyl ether	2.248	2.126	5.4	61	-0.07	8.52
30	2-butanone	0.052	0.046	11.5	55	-0.08	9.13
31	1,1-dichloroethane	1.049	0.997	5.0	62	-0.07	8.51
32	chloroprene	0.880	0.856	2.7	61	-0.07	8.63
33	acrylonitrile	0.166	0.155	6.6	60	-0.08	7.80
34	vinyl acetate	0.097	0.100	-3.1	62	-0.08	8.44
35	ethyl tert-butyl ether	2.332	2.238	4.0	60	-0.07	8.98
36	ethyl acetate	0.080	0.064	20.0	51	-0.08	9.16
37	2,2-dichloropropane	1.183	1.294	-9.4	74	-0.08	9.27
38	cis-1,2-dichloroethene	0.625	0.596	4.6	62	-0.08	9.22
39	propionitrile	0.086	0.071	17.4	53	-0.09	9.18
40	methyl acrylate	0.066	0.063	4.5	59	-0.07	9.25
41	methacrylonitrile	0.197	0.176	10.7	58	-0.09	9.39

Continuing Calibration Summary

Job Number: JC76508 **Sample:** VD10499-CC10401
Account: WSPENYC WSP Environment & Energy **Lab FileID:** D260117.D
Project: Emersub 15, LLC, Ithaca, NY

42		bromochloromethane	0.279	0.281	-0.7	63	-0.08	9.52
43		tetrahydrofuran	0.178	0.126	29.2#	43#	-0.07	9.55
44		chloroform	1.019	0.959	5.9	63	-0.08	9.60
45		tert-butyl formate	0.651	0.686	-5.4	67	-0.08	9.64
46	S	dibromofluoromethane (s)	0.486	0.451	7.2	62	-0.08	9.79
47		1,1,1-trichloroethane	1.139	1.186	-4.1	68	-0.08	9.89
48		cyclohexane	1.322	1.271	3.9	64	-0.07	10.04
49		isobutyl alcohol		----------NA----------				
50		1,1-dichloropropene	0.800	0.738	7.8	62	-0.07	10.06
51		carbon tetrachloride	0.949	0.996	-5.0	68	-0.08	10.10
52		tert-amyl alcohol	0.041	0.033	19.5	54	-0.08	10.15
53		isopropyl acetate	0.124	0.108	12.9	56	-0.07	10.19
54	I	1,4-difluorobenzene	1.000	1.000	0.0	61	-0.08	10.71
55	S	1,2-dichloroethane-d4 (s)	0.366	0.377	-3.0	63	-0.08	10.21
56		n-butyl alcohol	0.015	0.012	20.0	52	-0.08	10.72
57		2,2,4-trimethylpentane	1.834	1.844	-0.5	58	-0.07	10.43
58		benzene	1.512	1.496	1.1	60	-0.08	10.31
59		tert-amyl methyl ether	1.416	1.489	-5.2	63	-0.07	10.40
60		heptane	0.311	0.296	4.8	59	-0.07	10.58
61		1,2-dichloroethane	0.481	0.508	-5.6	63	-0.08	10.31
62		ethyl acrylate	0.400	0.361	9.8	56	-0.07	11.01
63		trichloroethene	0.354	0.362	-2.3	61	-0.08	11.05
64		2-chloroethyl vinyl ether	0.199	0.206	-3.5	61	-0.08	11.85
65		methyl methacrylate	0.085	0.079	7.1	55	-0.07	11.29
66		methylcyclohexane	0.867	0.899	-3.7	63	-0.07	11.39
67		1,2-dichloropropane	0.392	0.370	5.6	57	-0.08	11.33
68		dibromomethane	0.210	0.213	-1.4	60	-0.08	11.44
69		bromodichloromethane	0.497	0.505	-1.6	59	-0.08	11.60
70		2-nitropropane	0.083	0.050	39.8#	37#	-0.02	11.85
71		epichlorohydrin	0.038	0.035	7.9	57	-0.08	11.93
72		cis-1,3-dichloropropene	0.599	0.596	0.5	59	-0.07	12.10
73		4-methyl-2-pentanone	0.144	0.131	9.0	56	-0.08	12.19
74		isoamyl alcohol	0.013	0.011	15.4	50#	-0.08	12.18
75	I	chlorobenzene-d5	1.000	1.000	0.0	64	-0.07	14.12
76	S	toluene-d8 (s)	1.322	1.215	8.1	58	-0.07	12.45
77		toluene	0.981	0.928	5.4	58	-0.07	12.53
78		ethyl methacrylate	0.471	0.423	10.2	55	-0.07	12.71
79		trans-1,3-dichloropropene	0.554	0.553	0.2	61	-0.08	12.70
80		1,1,2-trichloroethane	0.268	0.253	5.6	60	-0.07	12.95
81		tetrachloroethene	0.306	0.325	-6.2	64	-0.07	13.15
82		2-hexanone	0.129	0.114	11.6	56	-0.08	13.13
83		1,3-dichloropropane	0.544	0.522	4.0	60	-0.07	13.15
84		butyl acetate	0.254	0.224	11.8	59	-0.06	13.23
85		dibromochloromethane	0.376	0.372	1.1	61	-0.07	13.43
86		1,2-dibromoethane	0.329	0.330	-0.3	61	-0.07	13.61
87		n-butyl ether	2.020	1.815	10.1	58	-0.06	14.13
88		chlorobenzene	1.029	1.050	-2.0	63	-0.07	14.16
89		1,1,1,2-tetrachloroethane	0.459	0.466	-1.5	63	-0.07	14.23
90		ethylbenzene	1.860	1.849	0.6	61	-0.06	14.24
91		m,p-xylene	0.713	0.730	-2.4	63	-0.06	14.37
92		o-xylene	1.650	1.639	0.7	62	-0.06	14.83
93		styrene	1.180	1.196	-1.4	62	-0.07	14.83
94		butyl acrylate	0.848	0.709	16.4	53	-0.06	14.62
95		isopropylbenzene	2.173	2.191	-0.8	62	-0.06	15.22
96		bromoform	0.243	0.264	-8.6	65	-0.07	15.08
97		cis-1,4-dichloro-2-butene	0.173	0.182	-5.2	64	-0.07	15.23
98	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	63	-0.07	16.77

Continuing Calibration Summary

Job Number: JC76508 **Sample:** VD10499-CC10401
Account: WSPENYC WSP Environment & Energy **Lab FileID:** D260117.D
Project: Emersub 15, LLC, Ithaca, NY

99	S	4-bromofluorobenzene (s)	0.752	0.723	3.9	61	-0.07	15.44
100		1,1,2,2-tetrachloroethane	0.738	0.686	7.0	59	-0.07	15.51
101		trans-1,4-dichloro-2-bute	0.199	0.185	7.0	59	-0.07	15.54
102		1,2,3-trichloropropane	0.208	0.198	4.8	62	-0.07	15.61
103		bromobenzene	0.704	0.770	-9.4	67	-0.07	15.65
104		n-propylbenzene	3.620	3.602	0.5	62	-0.06	15.69
105		2-chlorotoluene	0.729	0.759	-4.1	62	-0.07	15.84
106		4-chlorotoluene	2.133	2.148	-0.7	62	-0.07	15.97
107		1,3,5-trimethylbenzene	2.935	2.933	0.1	61	-0.06	15.87
108		tert-butylbenzene	2.625	2.548	2.9	59	-0.06	16.26
109		1,2,4-trimethylbenzene	2.947	2.937	0.3	62	-0.07	16.31
110		sec-butylbenzene	3.957	3.908	1.2	60	-0.07	16.51
111		p-isopropyltoluene	3.343	3.343	0.0	61	-0.06	16.65
112		1,3-dichlorobenzene	1.547	1.596	-3.2	63	-0.07	16.69
113		1,4-dichlorobenzene	1.586	1.642	-3.5	63	-0.06	16.80
114		1,2-dichlorobenzene	1.674	1.674	0.0	62	-0.07	17.21
115		benzyl chloride	1.781	1.930	-8.4	68	-0.07	16.89
116		n-butylbenzene	1.682	1.674	0.5	59	-0.06	17.11
		----------	True	Calc.	% Drift	----------		
117		2-ethylhexyl acrylate	10.000	7.924	20.8#	55	-0.06	19.02
		----------	AvgRF	CCRF	% Dev	----------		
118		hexachloroethane	0.560	0.561	-0.2	60	-0.06	17.57
119		1,2-dibromo-3-chloropropa	0.180	0.174	3.3	61	-0.07	18.05
120		1,3,5-trichlorobenzene	1.563	1.705	-9.1	65	-0.06	18.29
121		1,2,4-trichlorobenzene	1.286	1.568	-21.9#	71	-0.07	19.02
122		hexachlorobutadiene	0.669	0.712	-6.4	64	-0.07	19.16
123		naphthalene	2.680	3.188	-19.0	68	-0.08	19.36
124		1,2,3-trichlorobenzene	1.098	1.403	-27.8#	73	-0.08	19.63
125		2-methylnaphthalene	1.098	1.447	-31.8#	79	-0.08	20.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
d257661.D MD10401.M Wed Oct 24 20:17:17 2018

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8293\
Data File : C223290.D
Acq On : 25 Oct 2018 11:56 am
Operator : prashanS
Sample : JC76508-1
Misc : MS30275,VC8293,5.5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 25 13:49:14 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Oct 22 14:08:49 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.364	65	77090	500.00 ug/L	-0.05
5) pentafluorobenzene	11.089	168	338451	50.00 ug/L	-0.04
52) 1,4-difluorobenzene	12.057	114	531190	50.00 ug/L	-0.03
74) chlorobenzene-d5	15.080	117	433291	50.00 ug/L	-0.02
97) 1,4-dichlorobenzene-d4	17.114	152	143345	50.00 ug/L	-0.02

System Monitoring Compounds

44) dibromofluoromethane (s)	11.110	113	141279	50.62 ug/L	-0.04
Spiked Amount 50.000	Range 75 - 127		Recovery = 101.24%		
53) 1,2-dichloroethane-d4 (s)	11.555	65	155695	53.41 ug/L	-0.04
Spiked Amount 50.000	Range 75 - 130		Recovery = 106.82%		
75) toluene-d8 (s)	13.657	98	615513	52.10 ug/L	-0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.20%		
98) 4-bromofluorobenzene (s)	16.120	174	141884	67.91 ug/L	-0.02
Spiked Amount 50.000	Range 79 - 127		Recovery = 135.82%#		

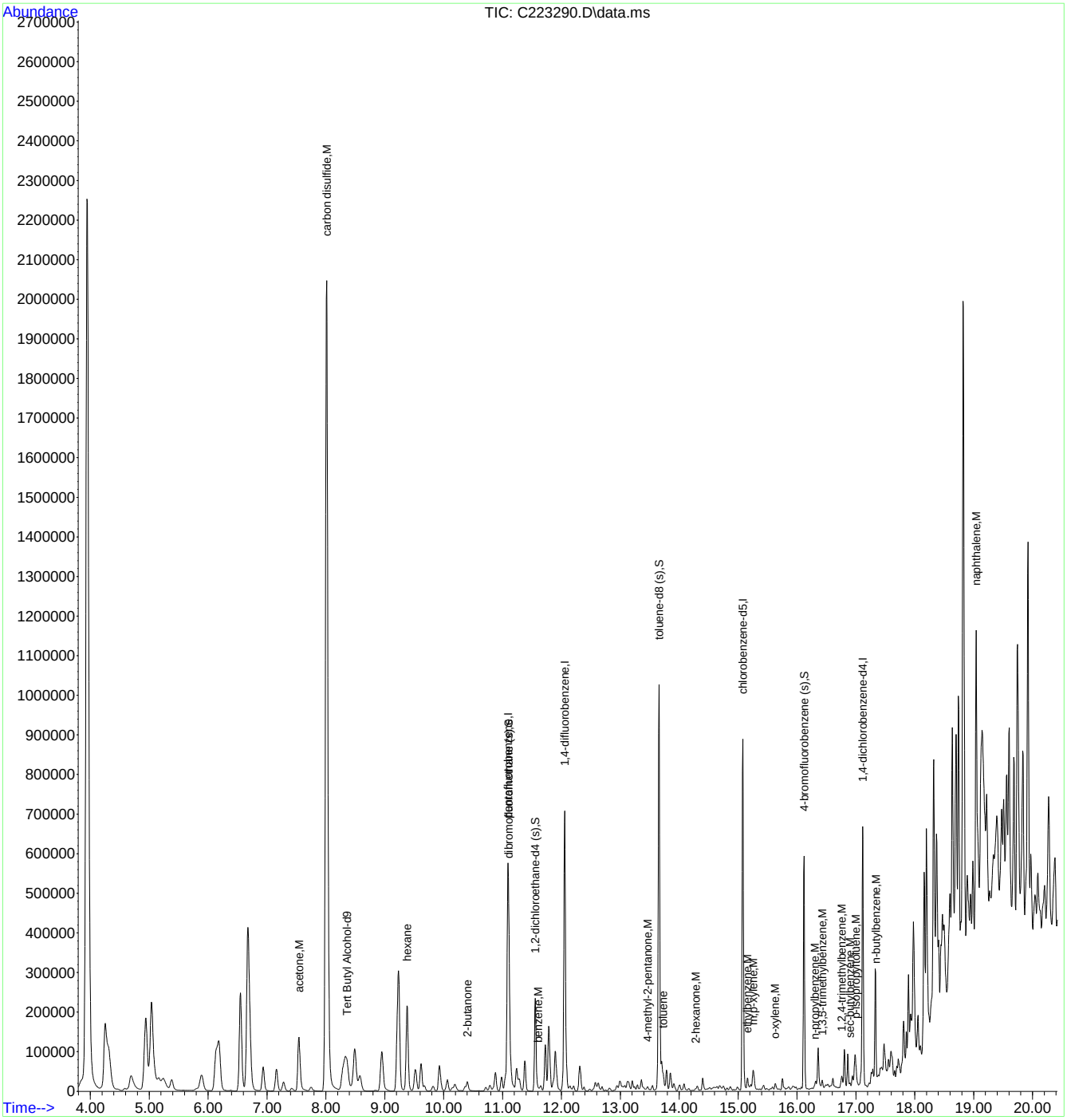
Target Compounds					Qvalue
19) acetone	7.543	43	254547	472.05 ug/L	98
22) carbon disulfide	8.014	76	4379373	538.83 ug/L	98
27) hexane	9.379	57	132996	26.24 ug/L	95
34) 2-butanone	10.404	72	7997	36.55 ug/L	94
57) benzene	11.612	78	4160	0.32 ug/L	94
72) 4-methyl-2-pentanone	13.464	58	2097	2.59 ug/L	87
76) toluene	13.730	92	13094	1.74 ug/L	98
80) 2-hexanone	14.274	58	1254	1.79 ug/L	84
89) ethylbenzene	15.163	91	10600	0.73 ug/L	99
90) m,p-xylene	15.263	106	8853	1.60 ug/L	94
91) o-xylene	15.629	91	6806	0.60 ug/L	94
103) n-propylbenzene	16.298	91	4145	0.37 ug/L	95
106) 1,3,5-trimethylbenzene	16.424	105	3114	0.39 ug/L	96
108) 1,2,4-trimethylbenzene	16.759	105	12103	1.53 ug/L	99
109) sec-butylbenzene	16.905	105	2335	0.23 ug/L	78
111) p-isopropyltoluene	17.004	119	3670	0.42 ug/L	85
115) n-butylbenzene	17.344	92	3215	0.70 ug/L	95
123) naphthalene	19.039	128	19855	3.49 ug/L	66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

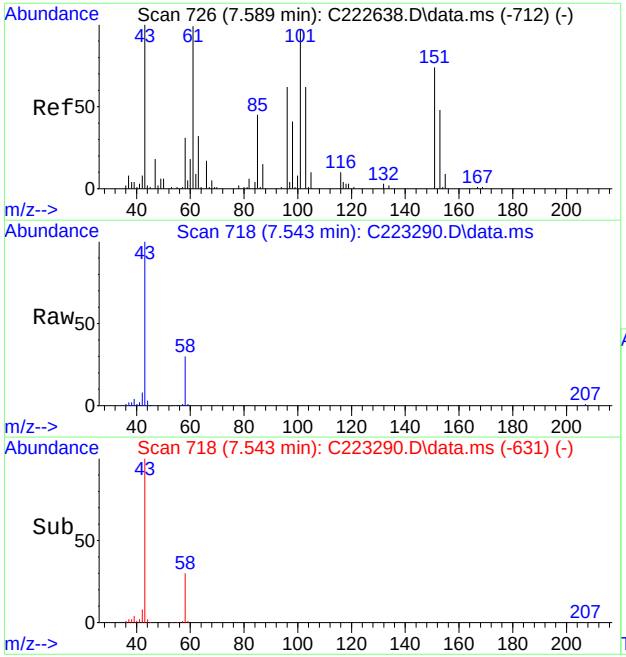
Data Path : C:\msdchem\1\DATA\VC8293\
Data File : C223290.D
Acq On : 25 Oct 2018 11:56 am
Operator : prashanS
Sample : JC76508-1
Misc : MS30275,VC8293,5.5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 25 13:49:14 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Oct 22 14:08:49 2018
Response via : Initial Calibration



MC8261.M Thu Oct 25 13:49:33 2018 C

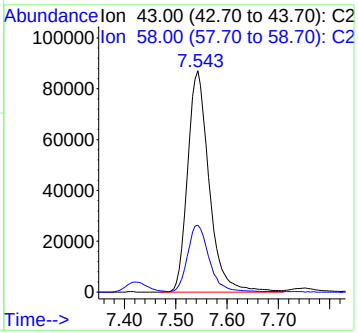
Page: 2

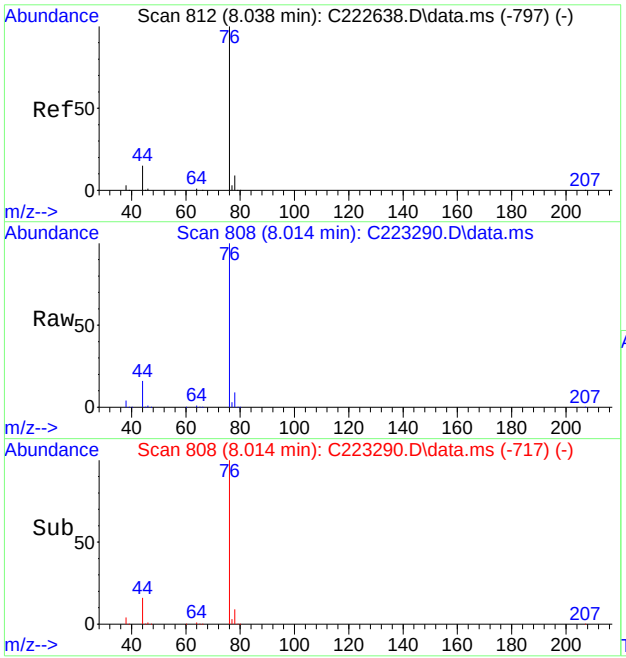


#19
acetone
Concen: 472.05 ug/L
RT: 7.543 min Scan# 718
Delta R.T. -0.046 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion: 43 Resp: 254547

Ion	Ratio	Lower	Upper
43	100		
58	30.0	1.0	61.0

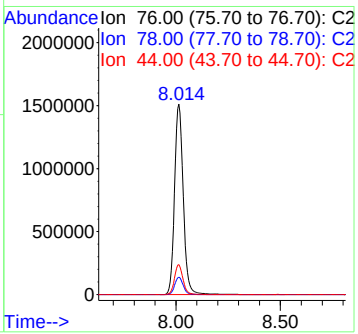


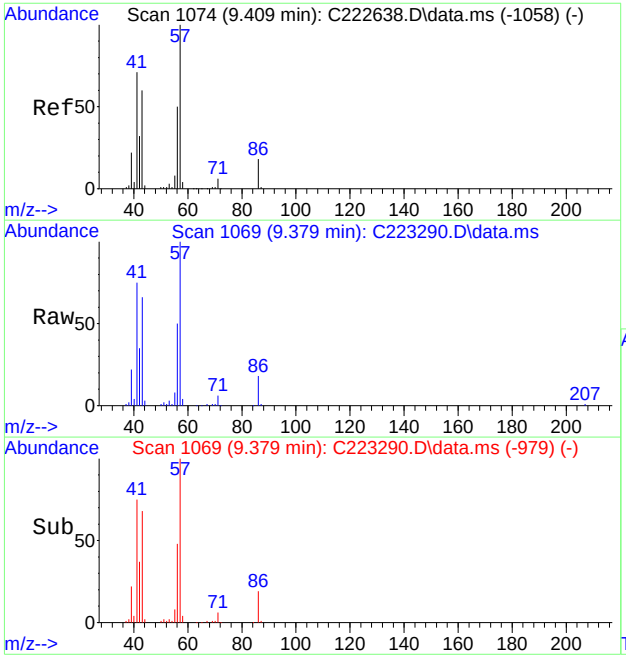


#22
carbon disulfide
Concen: 538.83 ug/L
RT: 8.014 min Scan# 808
Delta R.T. -0.025 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion: 76 Resp: 4379373

Ion	Ratio	Lower	Upper
76	100		
78	9.2	0.0	39.4
44	15.8	0.0	44.8

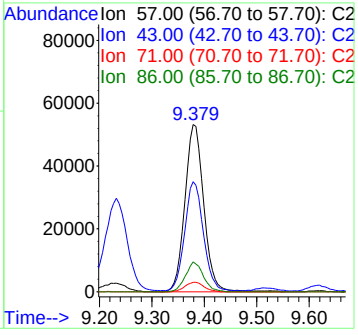


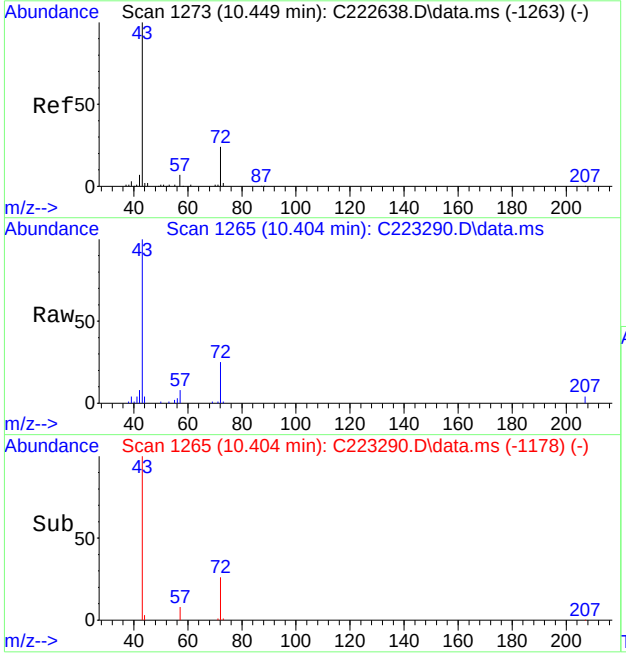


#27
hexane
Concen: 26.24 ug/L
RT: 9.379 min Scan# 1069
Delta R.T. -0.030 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion: 57 Resp: 132996

Ion	Ratio	Lower	Upper
57	100		
43	65.1	39.8	79.8
71	5.7	0.0	26.0
86	17.9	0.0	37.9

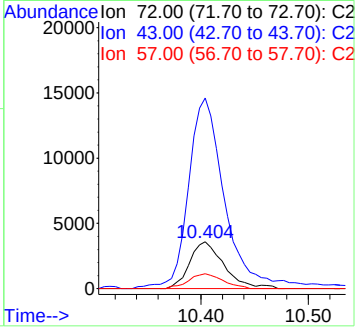


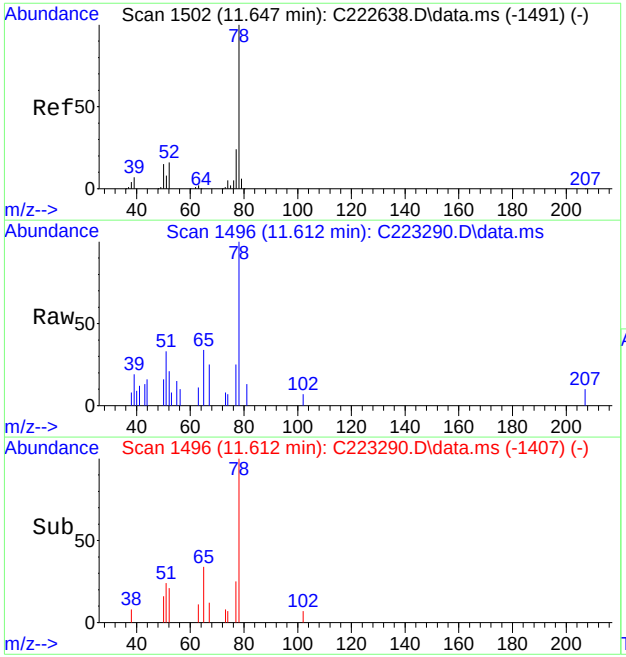


#34
2-butanone
Concen: 36.55 ug/L
RT: 10.404 min Scan# 1265
Delta R.T. -0.046 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion: 72 Resp: 7997

Ion	Ratio	Lower	Upper
72	100		
43	397.5	392.1	432.1
57	32.0	8.9	48.9

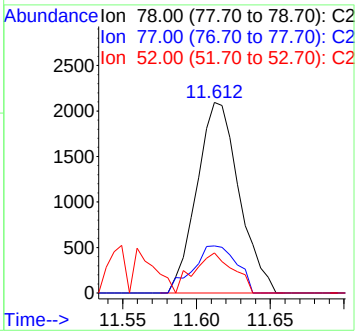


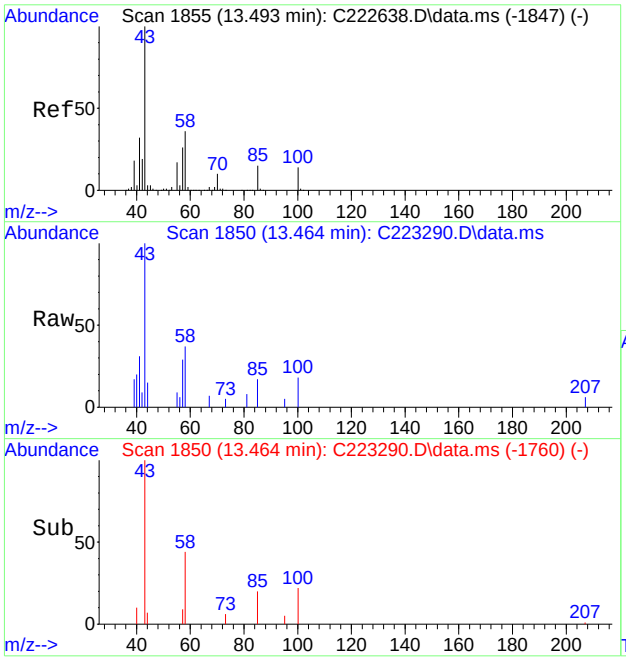


#57
benzene
Concen: 0.32 ug/L
RT: 11.612 min Scan# 1496
Delta R.T. -0.035 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion: 78 Resp: 4160

Ion	Ratio	Lower	Upper
78	100		
77	24.7	0.0	54.0
52	21.1	0.0	45.9

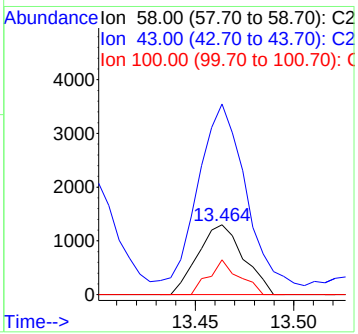


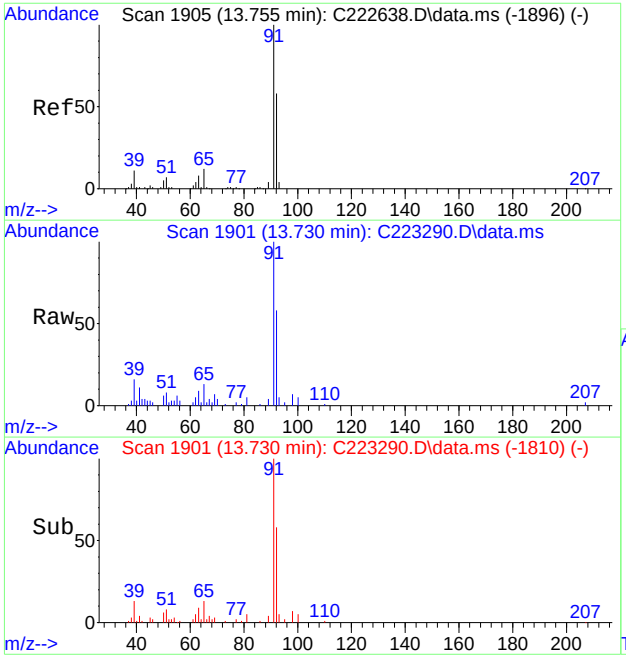


#72
4-methyl-2-pentanone
Concen: 2.59 ug/L
RT: 13.464 min Scan# 1850
Delta R.T. -0.030 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion: 58 Resp: 2097

Ion	Ratio	Lower	Upper
58	100		
43	252.7	245.1	305.1
100	49.8	7.8	67.8

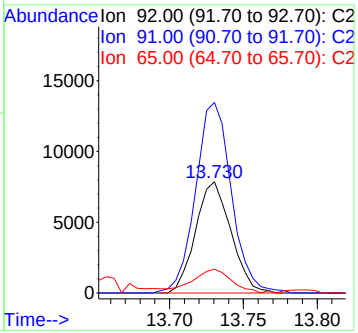


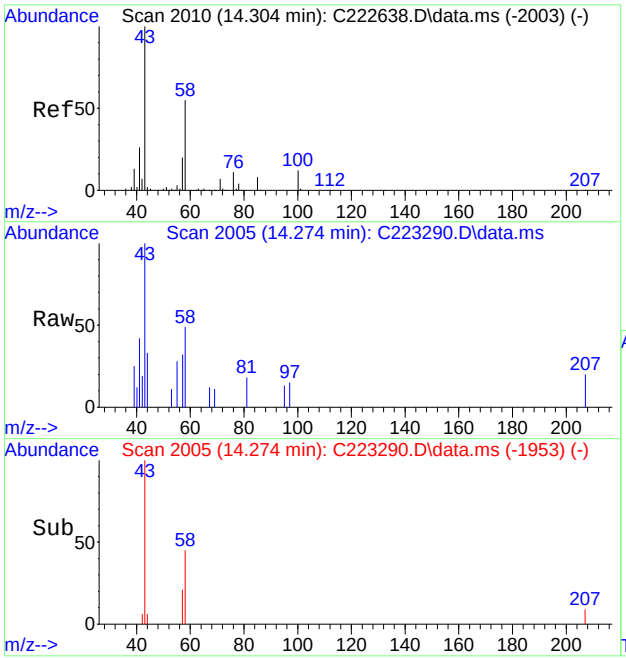


#76
toluene
Concen: 1.74 ug/L
RT: 13.730 min Scan# 1901
Delta R.T. -0.025 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion: 92 Resp: 13094

Ion	Ratio	Lower	Upper
92	100		
91	169.3	152.1	192.1
65	19.3	0.0	40.0

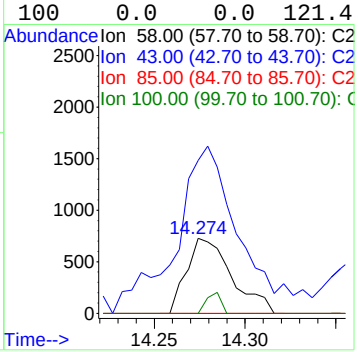


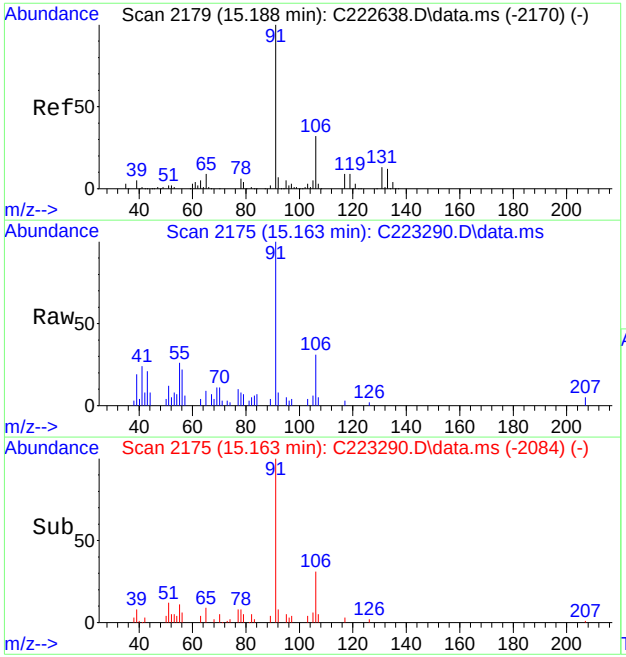


#80
2-hexanone
Concen: 1.79 ug/L
RT: 14.274 min Scan# 2005
Delta R.T. -0.030 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion: 58 Resp: 1254

Ion	Ratio	Lower	Upper
58	100		
43	164.3	80.2	280.2
85	0.0	0.0	115.3
100	0.0	0.0	121.4

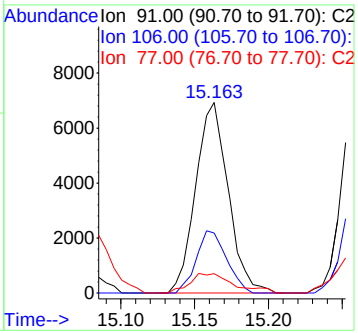


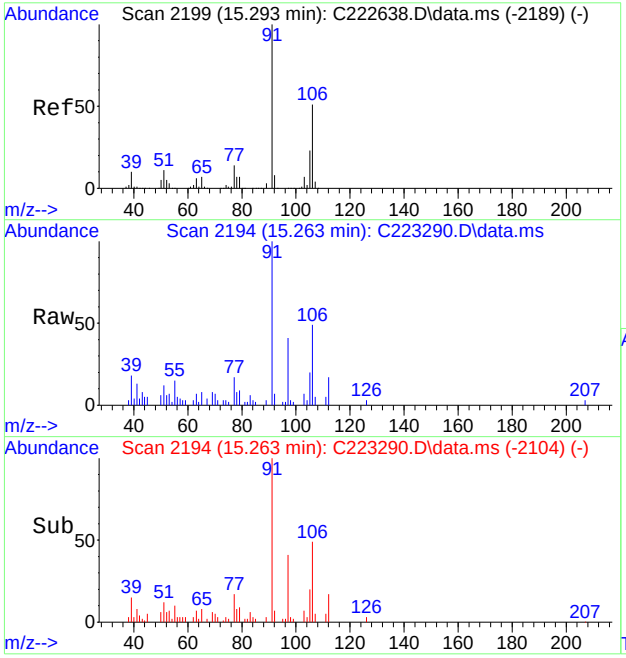


#89
ethylbenzene
Concen: 0.73 ug/L
RT: 15.163 min Scan# 2175
Delta R.T. -0.025 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion: 91 Resp: 10600

Ion	Ratio	Lower	Upper
91	100		
106	31.5	1.9	61.9
77	10.2	0.0	38.8

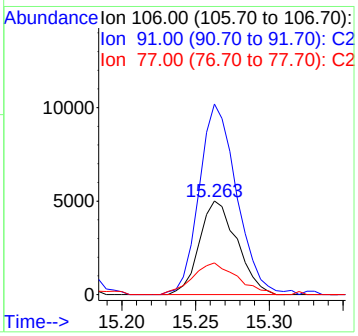


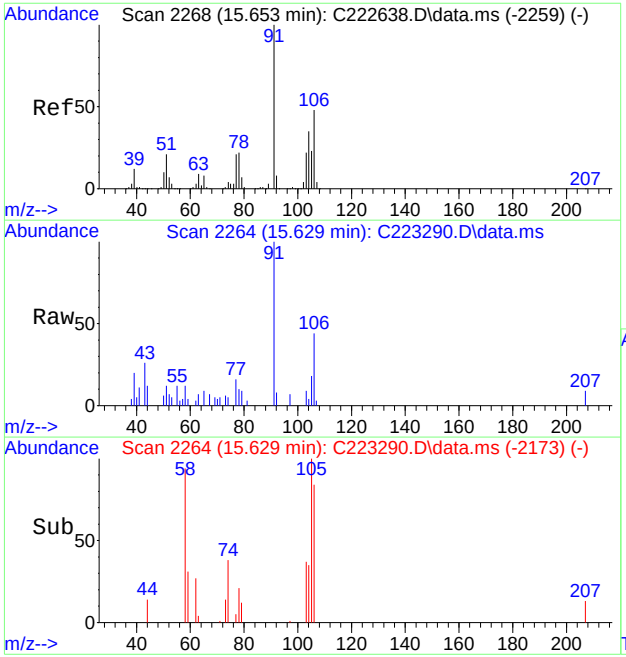


#90
m,p-xylene
Concen: 1.60 ug/L
RT: 15.263 min Scan# 2194
Delta R.T. -0.030 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion:106 Resp: 8853

Ion	Ratio	Lower	Upper
106	100		
91	203.2	166.4	226.4
77	33.8	0.0	56.7

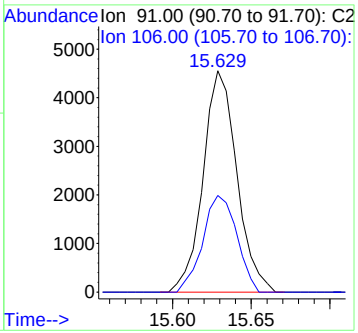


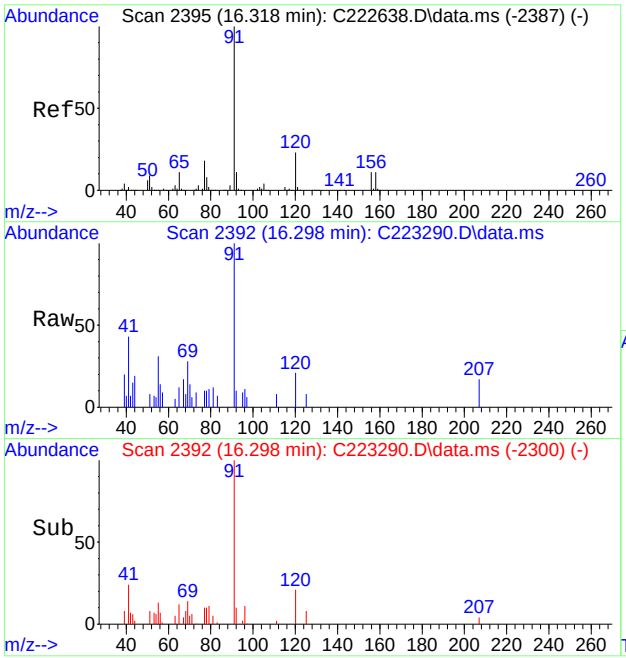


#91
o-xylene
Concen: 0.60 ug/L
RT: 15.629 min Scan# 2264
Delta R.T. -0.025 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion: 91 Resp: 6806

Ion	Ratio	Lower	Upper
91	100		
106	43.6	18.0	78.0

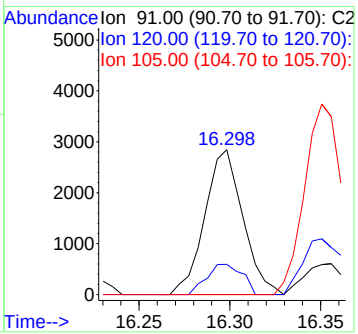


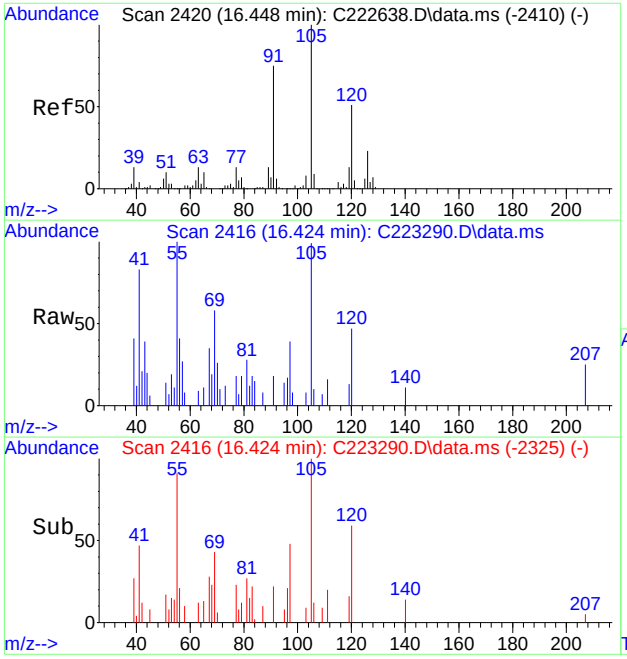


#103
n-propylbenzene
Concen: 0.37 ug/L
RT: 16.298 min Scan# 2392
Delta R.T. -0.019 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion: 91 Resp: 4145

Ion	Ratio	Lower	Upper
91	100		
120	20.9	0.0	53.1
105	0.0	0.0	33.6

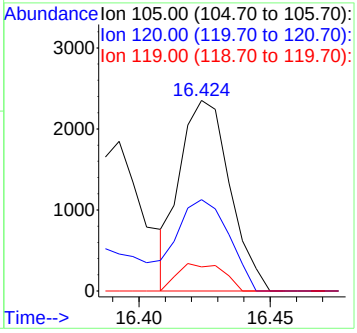


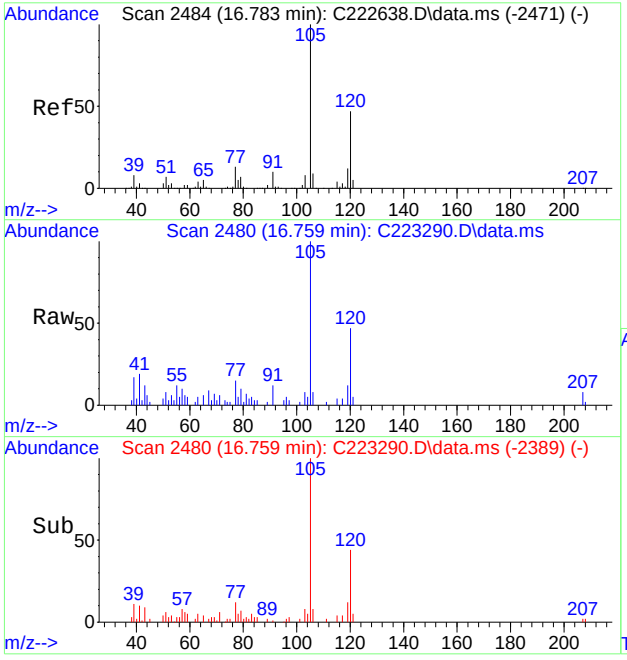


#106
1,3,5-trimethylbenzene
Concen: 0.39 ug/L
RT: 16.424 min Scan# 2416
Delta R.T. -0.025 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion:105 Resp: 3114

Ion	Ratio	Lower	Upper
105	100		
120	48.0	21.0	81.0
119	12.7	0.0	43.3

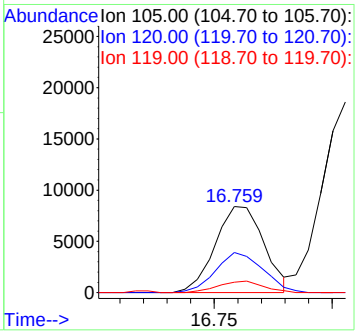


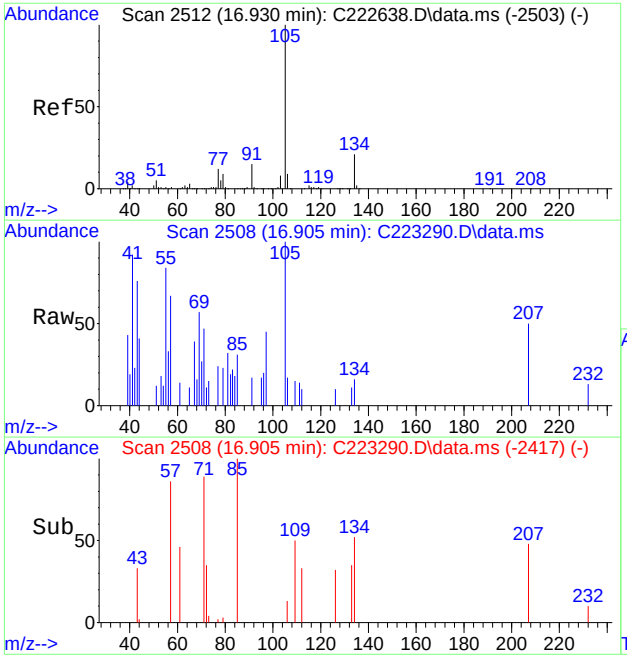


#108
1,2,4-trimethylbenzene
Concen: 1.53 ug/L
RT: 16.759 min Scan# 2480
Delta R.T. -0.025 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion:105 Resp: 12103

Ion	Ratio	Lower	Upper
105	100		
120	46.7	17.2	77.2
119	12.1	0.0	42.8

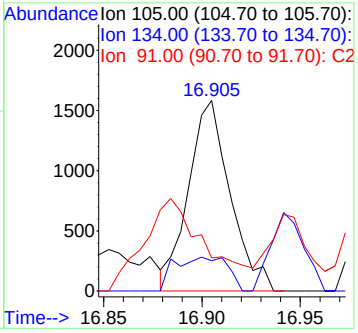


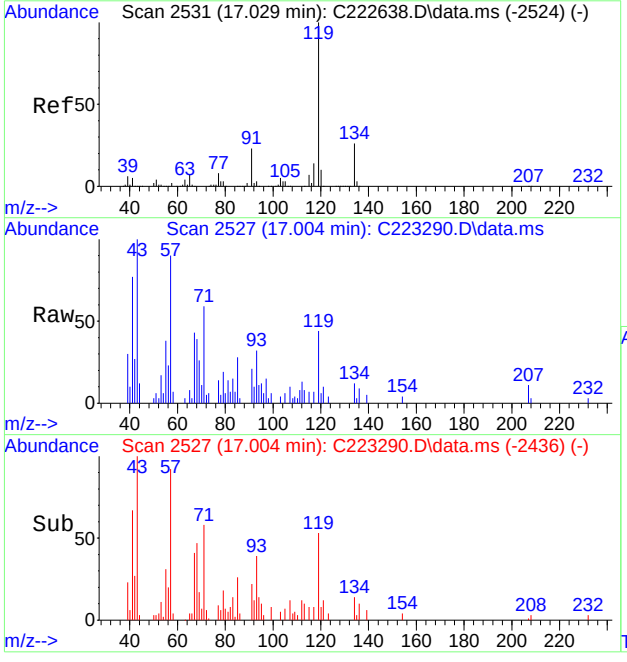


#109
sec-butylbenzene
Concen: 0.23 ug/L
RT: 16.905 min Scan# 2508
Delta R.T. -0.025 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion:105 Resp: 2335

Ion	Ratio	Lower	Upper
105	100		
134	15.9	0.0	50.8
91	0.0	0.0	45.4

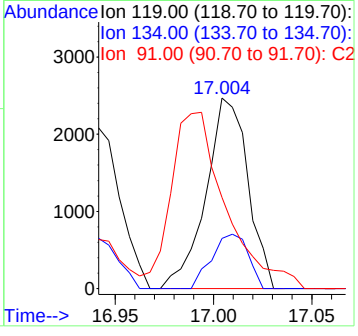


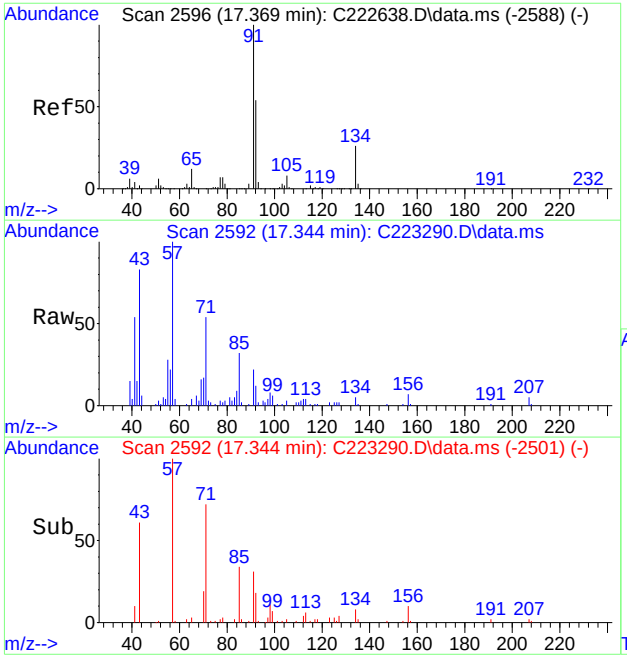


#111
p-isopropyltoluene
Concen: 0.42 ug/L
RT: 17.004 min Scan# 2527
Delta R.T. -0.025 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion:119 Resp: 3670

Ion	Ratio	Lower	Upper
119	100		
134	26.3	0.0	56.0
91	38.7	0.0	53.2

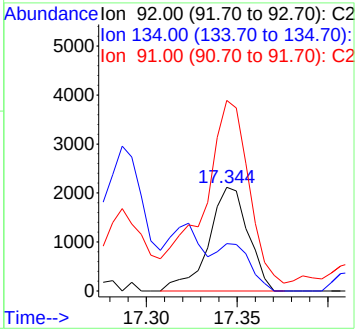


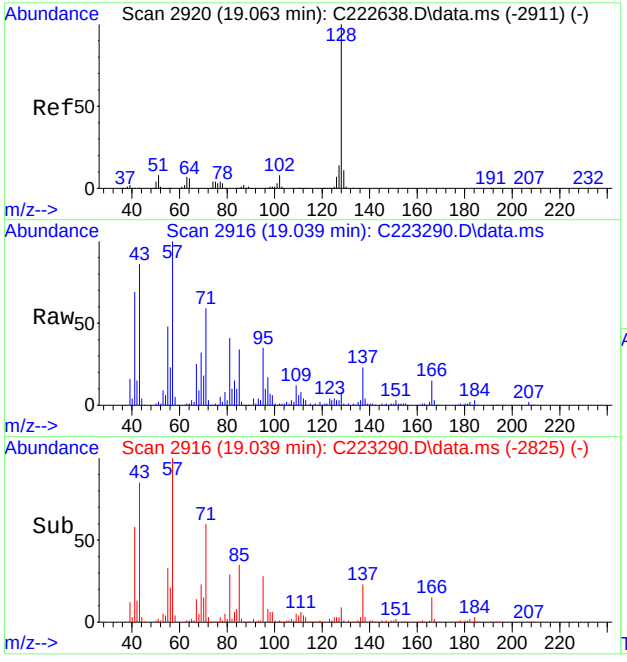


#115
n-butylbenzene
Concen: 0.70 ug/L
RT: 17.344 min Scan# 2592
Delta R.T. -0.025 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion: 92 Resp: 3215

Ion	Ratio	Lower	Upper
92	100		
134	45.6	17.6	77.6
91	175.9	154.6	214.6

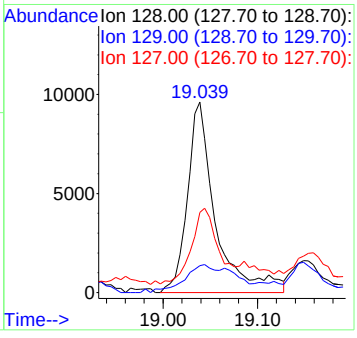




#123
naphthalene
Concen: 3.49 ug/L
RT: 19.039 min Scan# 2916
Delta R.T. -0.025 min
Lab File: C223290.D
Acq: 25 Oct 2018 11:56 am

Tgt Ion:128 Resp: 19855

Ion	Ratio	Lower	Upper
128	100		
129	12.3	0.0	41.0
127	37.5	0.0	43.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260139.d
Acq On : 24 Oct 2018 6:34 pm
Operator : thienn
Sample : jc76508-1 Inst : MSD
Misc : ms30275,vd10499,9.9,,100,10,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:52:04 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

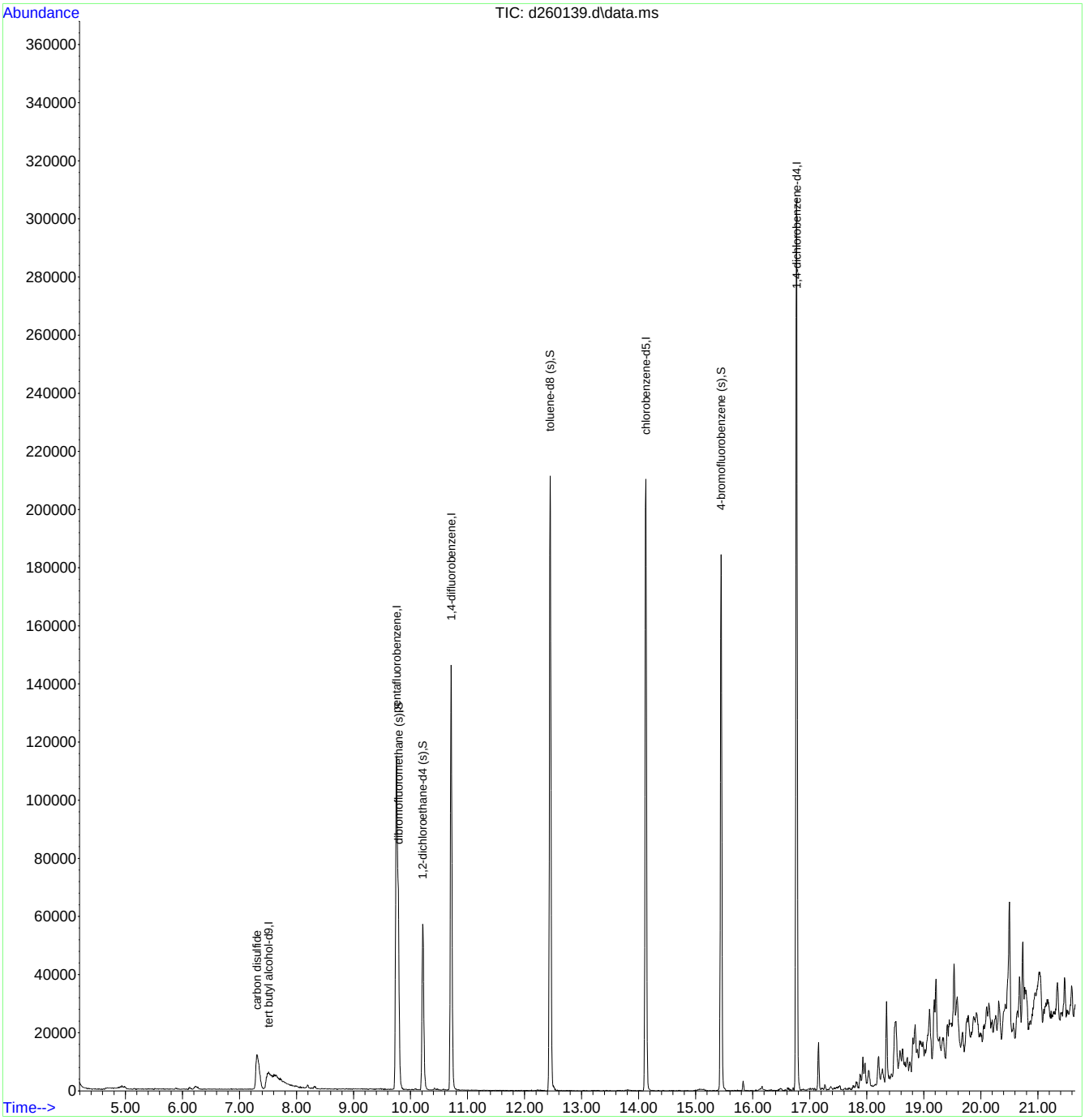
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.510	65	62261	500.00	ug/L	-0.04
5) pentafluorobenzene	9.753	168	89395	50.00	ug/L	-0.05
54) 1,4-difluorobenzene	10.711	114	128869	50.00	ug/L	-0.05
75) chlorobenzene-d5	14.126	117	127872	50.00	ug/L	-0.03
98) 1,4-dichlorobenzene-d4	16.767	152	88034	50.00	ug/L	-0.04
System Monitoring Compounds						
46) dibromofluoromethane (s)	9.785	113	39314	45.25	ug/L	-0.05
Spiked Amount 50.000	Range 75 - 127		Recovery = 90.50%			
55) 1,2-dichloroethane-d4 (s)	10.214	65	46516	49.37	ug/L	-0.05
Spiked Amount 50.000	Range 75 - 130		Recovery = 98.74%			
76) toluene-d8 (s)	12.447	98	153202	45.32	ug/L	-0.04
Spiked Amount 50.000	Range 80 - 120		Recovery = 90.64%			
99) 4-bromofluorobenzene (s)	15.444	95	64943	49.02	ug/L	-0.04
Spiked Amount 50.000	Range 79 - 127		Recovery = 98.04%			
Target Compounds						Qvalue
23) carbon disulfide	7.306	76	40416	10.45	ug/L	98

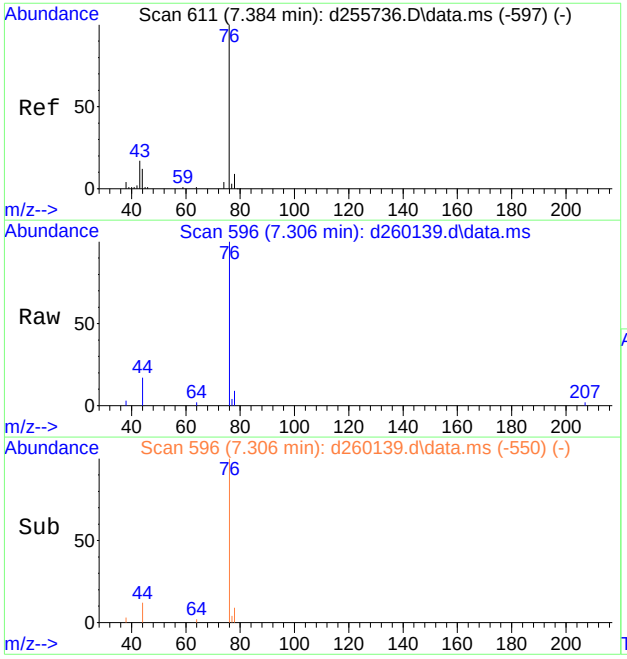
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260139.d
Acq On : 24 Oct 2018 6:34 pm
Operator : thienn
Sample : jc76508-1 Inst : MSD
Misc : ms30275,vd10499,9.9,,100,10,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:52:04 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

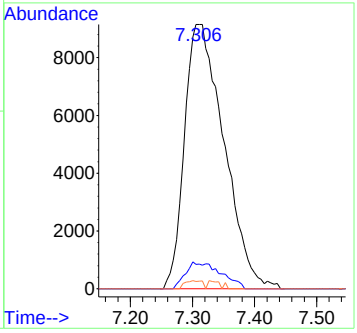




#23
carbon disulfide
Concen: 10.45 ug/L
RT: 7.306 min Scan# 596
Delta R.T. -0.058 min
Lab File: d260139.d
Acq: 24 Oct 2018 6:34 pm

Tgt Ion: 76 Resp: 40416

Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	39.4
38	2.8	0.0	34.4



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260121.d
Acq On : 24 Oct 2018 10:01 am
Operator : thienn
Sample : mb Inst : MSD
Misc : ms30200,vd10499,5,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:27:10 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.494	65	41693	500.00	ug/L	-0.05
5) pentafluorobenzene	9.754	168	77021	50.00	ug/L	-0.05
54) 1,4-difluorobenzene	10.711	114	112288	50.00	ug/L	-0.05
75) chlorobenzene-d5	14.121	117	113978	50.00	ug/L	-0.04
98) 1,4-dichlorobenzene-d4	16.767	152	76506	50.00	ug/L	-0.04
System Monitoring Compounds						
46) dibromofluoromethane (s)	9.785	113	35084	46.87	ug/L	-0.05
Spiked Amount 50.000	Range 75 - 127		Recovery = 93.74%			
55) 1,2-dichloroethane-d4 (s)	10.214	65	42107	51.29	ug/L	-0.05
Spiked Amount 50.000	Range 75 - 130		Recovery = 102.58%			
76) toluene-d8 (s)	12.447	98	135164	44.86	ug/L	-0.04
Spiked Amount 50.000	Range 80 - 120		Recovery = 89.72%			
99) 4-bromofluorobenzene (s)	15.444	95	58236	50.58	ug/L	-0.04
Spiked Amount 50.000	Range 79 - 127		Recovery = 101.16%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

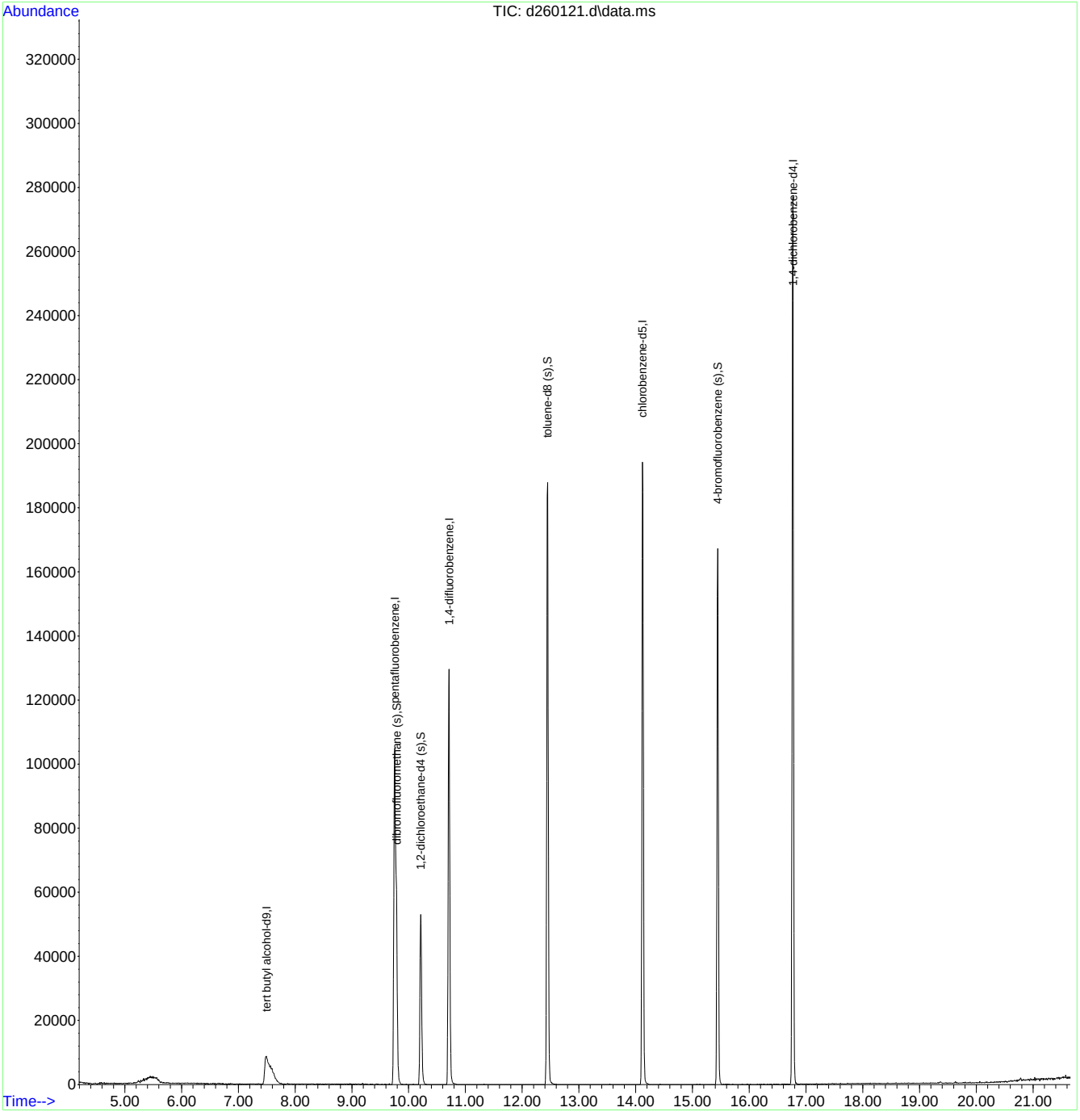
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260121.d
Acq On : 24 Oct 2018 10:01 am
Operator : thienn
Sample : mb Inst : MSD
Misc : ms30200,vd10499,5,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:27:10 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration



MD10401.M Wed Oct 24 20:53:34 2018 Page: 2

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223287.d
Acq On : 25 Oct 2018 10:29 am
Operator : prashanS
Sample : MB Inst : MSC
Misc : MS30261,VC8293,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 13:45:59 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.362	65	100735	500.00	ug/L	-0.05
5) pentafluorobenzene	11.092	168	370773	50.00	ug/L	-0.03
52) 1,4-difluorobenzene	12.054	114	565121	50.00	ug/L	-0.03
74) chlorobenzene-d5	15.083	117	518825	50.00	ug/L	-0.02
97) 1,4-dichlorobenzene-d4	17.117	152	260646	50.00	ug/L	-0.02
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.113	113	141372	46.24	ug/L	-0.04
Spiked Amount 50.000	Range 75 - 127		Recovery = 92.48%			
53) 1,2-dichloroethane-d4 (s)	11.557	65	151415	48.83	ug/L	-0.04
Spiked Amount 50.000	Range 75 - 130		Recovery = 97.66%			
75) toluene-d8 (s)	13.660	98	693643	49.04	ug/L	-0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.08%			
98) 4-bromofluorobenzene (s)	16.123	174	193877	51.04	ug/L	-0.02
Spiked Amount 50.000	Range 79 - 127		Recovery = 102.08%			
Target Compounds						Qvalue
59) 1,2-dichloroethane	11.657	62	516	0.13	ug/L #	49
123) naphthalene	19.042	128	2257	0.22	ug/L	80
125) 2-methylnaphthalene	20.093	142	1305	0.22	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

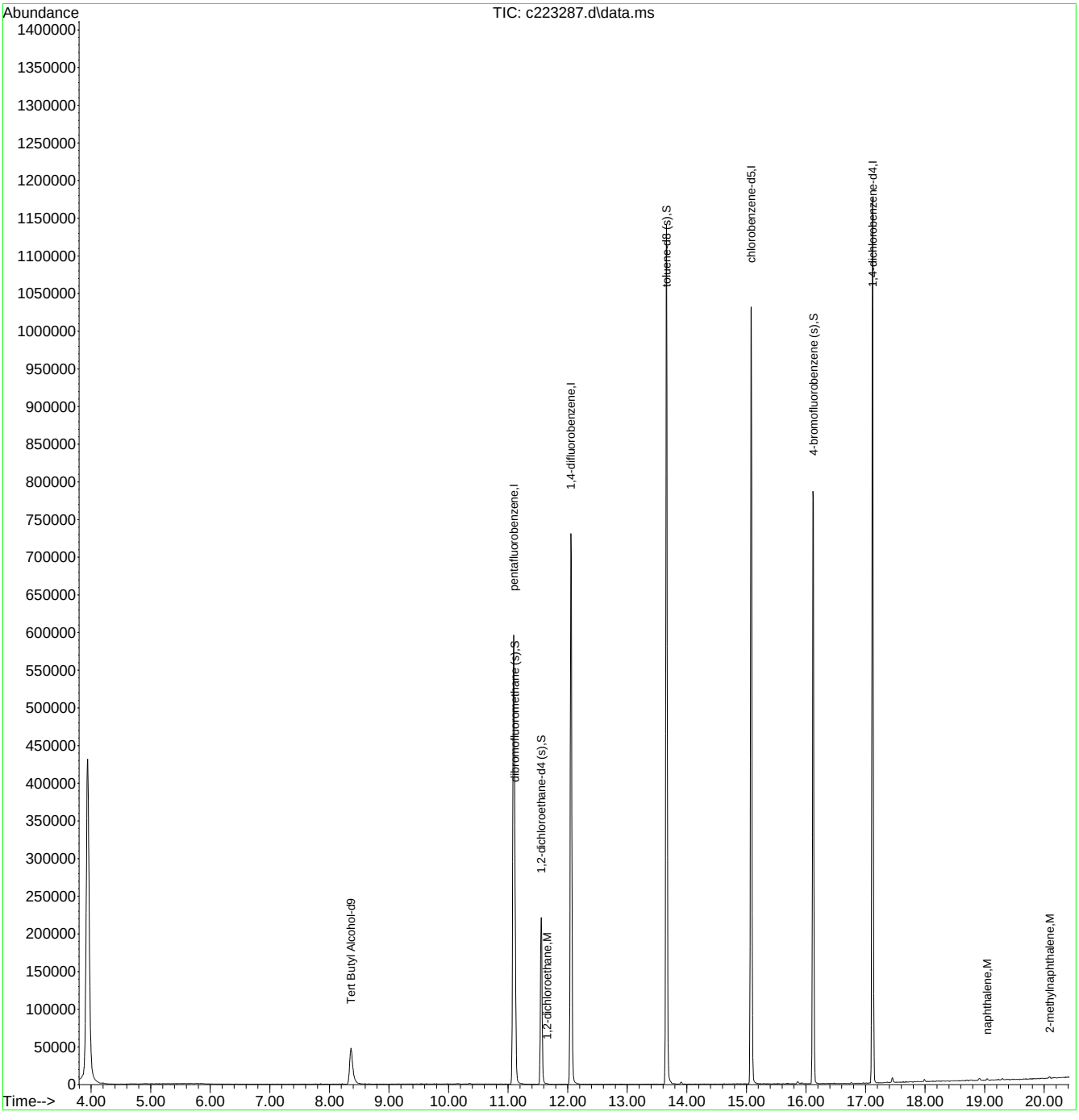
7.2.2

7

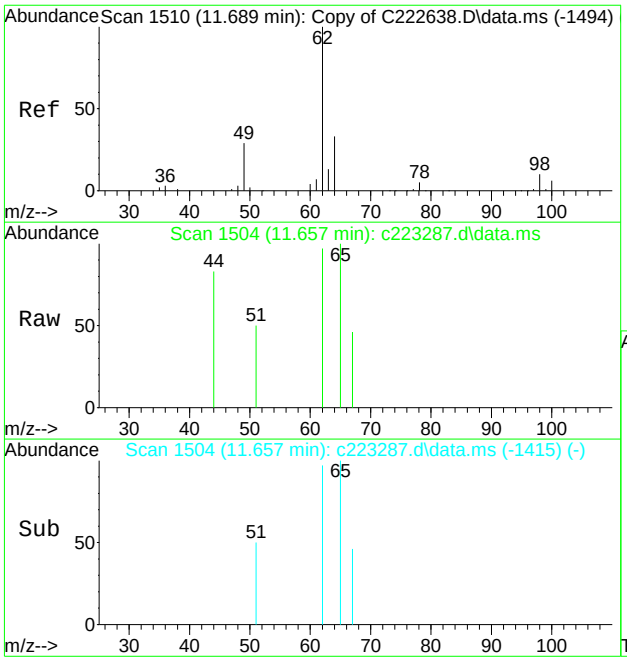
Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223287.d
Acq On : 25 Oct 2018 10:29 am
Operator : prashanS
Sample : MB Inst : MSC
Misc : MS30261,VC8293,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 13:45:59 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration



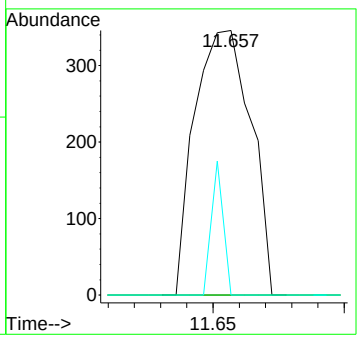
MC8261.M Fri Oct 26 13:46:09 2018 Page: 2

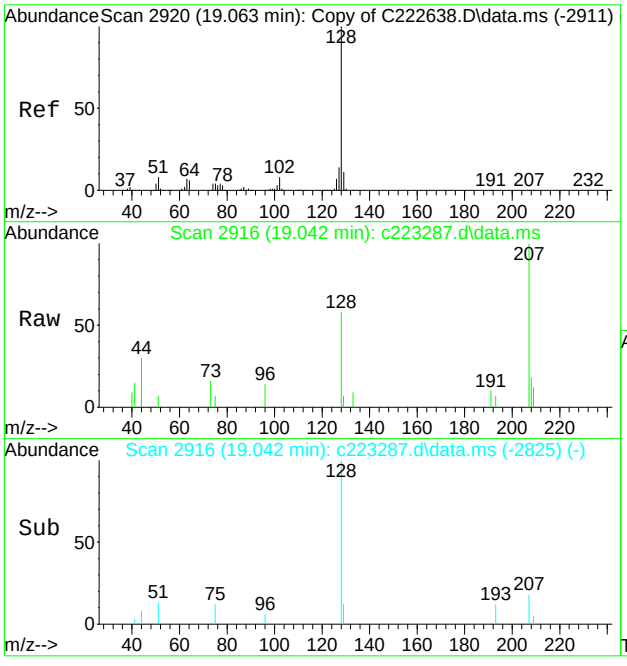


#59
1,2-dichloroethane
Concen: 0.13 ug/L
RT: 11.657 min Scan# 1504
Delta R.T. -0.032 min
Lab File: c223287.d
Acq: 25 Oct 2018 10:29 am

Tgt Ion: 62 Resp: 516

Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	39.8
64	0.0	2.7	62.7#

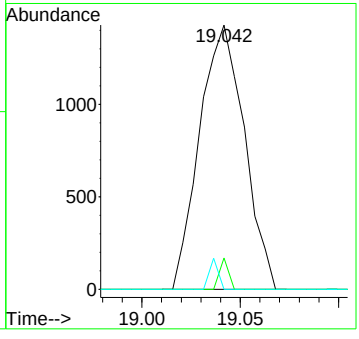


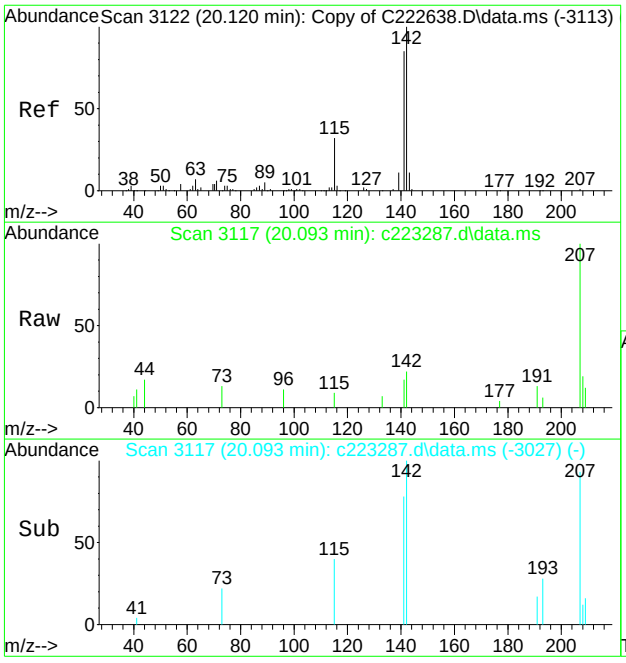


#123
naphthalene
Concen: 0.22 ug/L
RT: 19.042 min Scan# 2916
Delta R.T. -0.022 min
Lab File: c223287.d
Acq: 25 Oct 2018 10:29 am

Tgt Ion:128 Resp: 2257

Ion	Ratio	Lower	Upper
128	100		
129	11.9	0.0	41.0
127	0.0	0.0	43.6

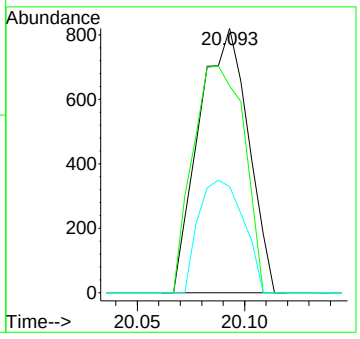




#125
2-methylnaphthalene
Concen: 0.22 ug/L
RT: 20.093 min Scan# 3117
Delta R.T. -0.027 min
Lab File: c223287.d
Acq: 25 Oct 2018 10:29 am

Tgt Ion:142 Resp: 1305

Ion	Ratio	Lower	Upper
142	100		
141	78.2	64.9	104.9
115	40.1	11.7	51.7



7.2.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260119.d
Acq On : 24 Oct 2018 9:04 am
Operator : thienn
Sample : bs Inst : MSD
Misc : ms27208,vd10499,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:26:16 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.479	65	41910	500.00	ug/L	-0.07
5) pentafluorobenzene	9.754	168	79142	50.00	ug/L	-0.05
54) 1,4-difluorobenzene	10.711	114	116980	50.00	ug/L	-0.05
75) chlorobenzene-d5	14.121	117	118331	50.00	ug/L	-0.04
98) 1,4-dichlorobenzene-d4	16.767	152	79959	50.00	ug/L	-0.04
System Monitoring Compounds						
46) dibromofluoromethane (s)	9.785	113	35685	46.40	ug/L	-0.05
Spiked Amount 50.000	Range 75 - 127		Recovery = 92.80%			
55) 1,2-dichloroethane-d4 (s)	10.214	65	43667	51.06	ug/L	-0.05
Spiked Amount 50.000	Range 75 - 130		Recovery = 102.12%			
76) toluene-d8 (s)	12.447	98	140146	44.80	ug/L	-0.04
Spiked Amount 50.000	Range 80 - 120		Recovery = 89.60%			
99) 4-bromofluorobenzene (s)	15.444	95	57257	47.58	ug/L	-0.04
Spiked Amount 50.000	Range 79 - 127		Recovery = 95.16%			
Target Compounds						Qvalue
2) ethanol	6.239	45	60686	5315.87	ug/L	91
3) tertiary butyl alcohol	7.578	59	26614	246.16	ug/L	98
4) 1,4-dioxane	11.380	88	12545	1224.23	ug/L	96
6) chlorodifluoromethane	4.414	51	113186	59.62	ug/L	99
7) dichlorodifluoromethane	4.424	85	108073	50.83	ug/L	96
8) chloromethane	4.785	50	106953	47.98	ug/L	98
10) vinyl chloride	5.005	62	100736	49.59	ug/L	99
11) bromomethane	5.591	94	56870	47.79	ug/L	97
12) chloroethane	5.732	64	54126	48.99	ug/L	92
13) trichlorofluoromethane	6.176	101	105770	51.36	ug/L	99
14) vinyl bromide	6.056	106	57478	51.97	ug/L	98
15) ethyl ether	6.485	74	21735	46.27	ug/L	98
16) 2-chloropropane	6.694	43	100958	50.35	ug/L	95
17) acrolein	6.668	56	7456	39.80	ug/L	98
18) freon 113	6.945	151	52078	56.47	ug/L	97
19) 1,1-dichloroethene	6.903	96	50440	48.57	ug/L	94
20) acetone	6.856	58	12579	191.04	ug/L	94
21) acetonitrile	7.238	41	65769	448.43	ug/L	94
22) iodomethane	7.155	142	83715	53.84	ug/L	97
23) carbon disulfide	7.317	76	178333	52.09	ug/L	99
24) methylene chloride	7.562	84	51939	45.94	ug/L	94
25) methyl acetate	7.311	43	26606	43.60	ug/L	92
26) methyl tert butyl ether	7.929	73	157773	45.27	ug/L	99
27) trans-1,2-dichloroethene	7.960	96	42697	45.91	ug/L	97
28) hexane	8.331	56	32557	49.56	ug/L	97
29) di-isopropyl ether	8.514	45	165817	46.61	ug/L	99
30) 2-butanone	9.132	72	15421	185.92	ug/L	95
31) 1,1-dichloroethane	8.514	63	78214	47.11	ug/L	98
32) chloroprene	8.624	53	67517	48.47	ug/L	98
33) acrylonitrile	7.798	53	12075	46.01	ug/L	91
34) vinyl acetate	8.431	86	7781	50.53	ug/L #	90
35) ethyl tert-butyl ether	8.980	59	175955	47.67	ug/L	99
36) ethyl acetate	9.163	45	5006	39.73	ug/L #	27
37) 2,2-dichloropropane	9.273	77	97061	51.85	ug/L	97
38) cis-1,2-dichloroethene	9.220	96	46471	46.97	ug/L	99
39) propionitrile	9.173	54	55362	408.20	ug/L	97
40) methyl acrylate	9.247	85	4895	46.62	ug/L #	80
41) methacrylonitrile	9.393	67	13796	44.27	ug/L	96
42) bromochloromethane	9.513	128	22460	50.81	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260119.d
Acq On : 24 Oct 2018 9:04 am
Operator : thienn
Sample : bs Inst : MSD
Misc : ms27208,vd10499,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:26:16 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	tetrahydrofuran	9.550	42	10097	35.76	ug/L		95
44)	chloroform	9.597	83	74857	46.42	ug/L		97
45)	tert-butyl formate	9.644	59	52364	50.85	ug/L		98
47)	1,1,1-trichloroethane	9.895	97	91538	50.78	ug/L		100
48)	cyclohexane	10.036	84	97710	46.68	ug/L		89
50)	1,1-dichloropropene	10.062	75	57013	45.03	ug/L		96
51)	carbon tetrachloride	10.104	117	77552	51.65	ug/L		99
52)	tert-amyl alcohol	10.141	73	12689	195.80	ug/L	#	85
53)	isopropyl acetate	10.188	87	8442	42.89	ug/L		98
56)	n-butyl alcohol	10.721	56	66616	1890.46	ug/L		97
57)	2,2,4-trimethylpentane	10.434	57	201896	47.05	ug/L		97
58)	benzene	10.308	78	169864	48.01	ug/L		99
59)	tert-amyl methyl ether	10.397	73	168282	50.80	ug/L		100
60)	heptane	10.585	57	33002	45.32	ug/L		97
61)	1,2-dichloroethane	10.308	62	58140	51.67	ug/L		99
62)	ethyl acrylate	11.009	55	41228	44.07	ug/L		97
63)	trichloroethene	11.051	95	40872	49.34	ug/L		98
64)	2-chloroethyl vinyl ether	11.846	63	120177	258.42	ug/L		98
65)	methyl methacrylate	11.286	100	9056	45.56	ug/L		98
66)	methylcyclohexane	11.391	83	99147	48.89	ug/L		98
67)	1,2-dichloropropane	11.333	63	43172	47.12	ug/L		99
68)	dibromomethane	11.443	93	24985	50.79	ug/L		93
69)	bromodichloromethane	11.600	83	58940	50.72	ug/L		99
70)	2-nitropropane	11.846	41	5662	29.24	ug/L		53
71)	epichlorohydrin	11.930	57	20687	232.47	ug/L		99
72)	cis-1,3-dichloropropene	12.092	75	69297	49.41	ug/L		99
73)	4-methyl-2-pentanone	12.191	58	59085	175.87	ug/L		94
74)	isoamyl alcohol	12.181	70	26587	846.16	ug/L	#	87
77)	toluene	12.526	92	107027	46.09	ug/L		99
78)	ethyl methacrylate	12.709	69	49174	44.08	ug/L		99
79)	trans-1,3-dichloropropene	12.704	75	64156	48.90	ug/L		99
80)	1,1,2-trichloroethane	12.944	83	29194	46.04	ug/L		98
81)	tetrachloroethene	13.153	164	36545	50.52	ug/L		98
82)	2-hexanone	13.127	58	52477	171.87	ug/L		97
83)	1,3-dichloropropane	13.148	76	61512	47.81	ug/L		97
84)	butyl acetate	13.232	56	25819	42.91	ug/L		99
85)	dibromochloromethane	13.431	129	44271	49.76	ug/L		98
86)	1,2-dibromoethane	13.608	107	38723	49.78	ug/L		99
87)	n-butyl ether	14.132	57	209195	43.76	ug/L		99
88)	chlorobenzene	14.158	112	122706	50.38	ug/L		97
89)	1,1,1,2-tetrachloroethane	14.226	131	52388	48.19	ug/L		99
90)	ethylbenzene	14.236	91	216148	49.11	ug/L		99
91)	m,p-xylene	14.372	106	169210	100.29	ug/L		98
92)	o-xylene	14.822	91	188665	48.33	ug/L		99
93)	styrene	14.832	104	143420	51.36	ug/L		99
94)	butyl acrylate	14.623	55	83646	41.68	ug/L		98
95)	isopropylbenzene	15.225	105	247199	48.07	ug/L		99
96)	bromoform	15.083	173	30926	53.71	ug/L		99
97)	cis-1,4-dichloro-2-butene	15.230	88	21094	51.49	ug/L		96
100)	1,1,2,2-tetrachloroethane	15.507	83	53786	45.58	ug/L		98
101)	trans-1,4-dichloro-2-b...	15.544	53	14111	44.44	ug/L		98
102)	1,2,3-trichloropropane	15.606	110	16011	48.03	ug/L		94
103)	bromobenzene	15.653	156	60352	53.62	ug/L		91
104)	n-propylbenzene	15.695	91	280488	48.45	ug/L		98
105)	2-chlorotoluene	15.842	126	58563	49.94	ug/L		100
106)	4-chlorotoluene	15.967	91	169495	49.68	ug/L		97
107)	1,3,5-trimethylbenzene	15.873	105	224285	47.78	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260119.d
Acq On : 24 Oct 2018 9:04 am
Operator : thienn
Sample : bs Inst : MSD
Misc : ms27208,vd10499,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:26:16 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) tert-butylbenzene	16.260	119	190869	45.46	ug/L	98
109) 1,2,4-trimethylbenzene	16.312	105	226173	48.00	ug/L	99
110) sec-butylbenzene	16.506	105	295138	46.64	ug/L	99
111) p-isopropyltoluene	16.652	119	257214	48.12	ug/L	99
112) 1,3-dichlorobenzene	16.689	146	126712	51.23	ug/L	98
113) 1,4-dichlorobenzene	16.794	146	129085	50.88	ug/L	98
114) 1,2-dichlorobenzene	17.212	146	132441	49.48	ug/L	98
115) benzyl chloride	16.888	91	146387	51.40	ug/L	100
116) n-butylbenzene	17.113	92	128729	47.87	ug/L	100
117) 2-ethylhexyl acrylate	19.011	70	8395	6.98	ug/L	92
118) hexachloroethane	17.562	201	42462	47.45	ug/L	97
119) 1,2-dibromo-3-chloropr...	18.044	75	13634	47.44	ug/L	96
120) 1,3,5-trichlorobenzene	18.289	180	129037	51.62	ug/L	98
121) 1,2,4-trichlorobenzene	19.016	180	117059	56.93	ug/L	99
122) hexachlorobutadiene	19.163	225	53801	50.31	ug/L	98
123) naphthalene	19.356	128	234487	54.72	ug/L	99
124) 1,2,3-trichlorobenzene	19.628	180	102612	58.41	ug/L	99
125) 2-methylnaphthalene	20.774	142	50236	28.61	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

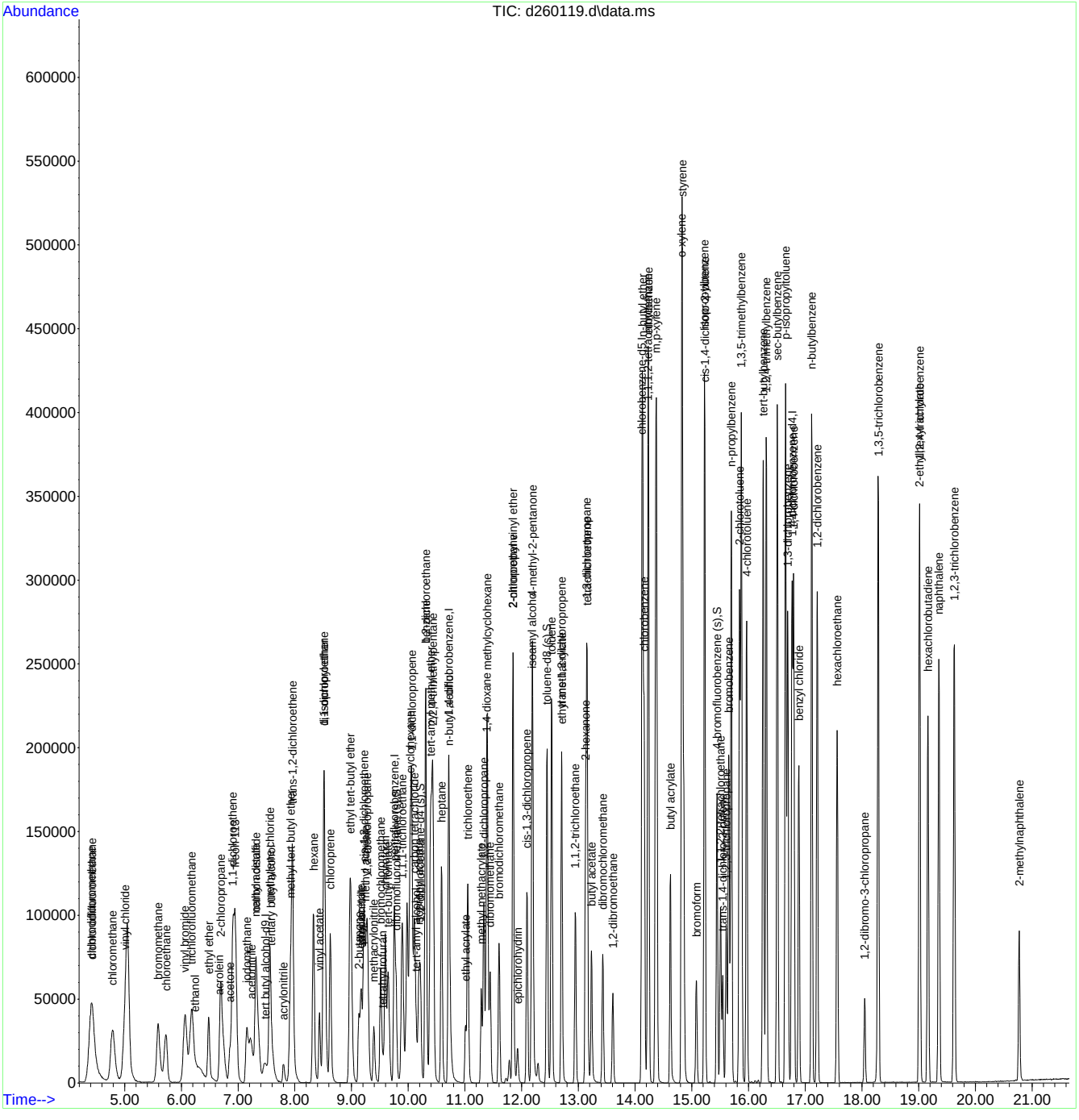
7.3.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260119.d
Acq On : 24 Oct 2018 9:04 am
Operator : thienn
Sample : bs Inst : MSD
Misc : ms27208,vd10499,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:26:16 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration



MD10401.M Wed Oct 24 20:52:46 2018 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223285.d
Acq On : 25 Oct 2018 9:17 am
Operator : prashanS
Sample : BS Inst : MSC
Misc : MS30272,VC8293,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:33:54 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.367	65	122709	500.00	ug/L	-0.05
5) pentafluorobenzene	11.092	168	346906	50.00	ug/L	-0.03
52) 1,4-difluorobenzene	12.054	114	529501	50.00	ug/L	-0.03
74) chlorobenzene-d5	15.077	117	489275	50.00	ug/L	-0.03
97) 1,4-dichlorobenzene-d4	17.117	152	253354	50.00	ug/L	-0.02
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.113	113	140052	48.95	ug/L	-0.04
Spiked Amount 50.000	Range 75 - 127		Recovery = 97.90%			
53) 1,2-dichloroethane-d4 (s)	11.557	65	151993	52.31	ug/L	-0.04
Spiked Amount 50.000	Range 75 - 130		Recovery = 104.62%			
75) toluene-d8 (s)	13.660	98	652493	48.91	ug/L	-0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.82%			
98) 4-bromofluorobenzene (s)	16.118	174	185698	50.29	ug/L	-0.03
Spiked Amount 50.000	Range 79 - 127		Recovery = 100.58%			
Target Compounds						Qvalue
2) ethanol	6.751	45	153692	5428.02	ug/L	99
3) tertiary butyl alcohol	8.524	59	75187	239.30	ug/L	99
4) 1,4-dioxane	12.697	88	30348	1221.04	ug/L	91
6) chlorodifluoromethane	4.376	51	164603	50.53	ug/L	99
7) dichlorodifluoromethane	4.340	85	246931	52.14	ug/L	98
8) chloromethane	4.763	50	259292	49.79	ug/L	100
9) vinyl chloride	5.035	62	231515	46.65	ug/L	99
10) bromomethane	5.773	94	130818	41.77	ug/L	99
11) chloroethane	5.987	64	139352	48.32	ug/L	98
12) vinyl bromide	6.395	106	131918	36.96	ug/L	100
13) trichlorofluoromethane	6.536	101	238547	46.50	ug/L	100
14) ethyl ether	7.023	74	79390	48.08	ug/L	97
15) 2-chloropropane	7.290	43	308870	53.32	ug/L	98
16) acrolein	7.305	56	22923	55.96	ug/L	90
17) freon 113	7.556	151	98872	45.25	ug/L	98
18) 1,1-dichloroethene	7.535	61	240924	49.44	ug/L	96
19) acetone	7.546	43	128944	233.29	ug/L	100
20) acetonitrile	8.058	41	149587	609.02	ug/L	99
21) iodomethane	7.844	142	192073	53.57	ug/L	98
22) carbon disulfide	8.017	76	417959	50.17	ug/L	99
23) methylene chloride	8.440	84	156286	42.74	ug/L	97
24) methyl acetate	8.126	43	86460	59.66	ug/L	96
25) methyl tert butyl ether	8.900	73	387642	51.09	ug/L	99
26) trans-1,2-dichloroethene	8.937	61	233779	51.30	ug/L	97
27) hexane	9.382	57	259993	50.05	ug/L	93
28) di-isopropyl ether	9.643	45	585674	57.56	ug/L	97
29) ethyl tert-butyl ether	10.187	59	525063	55.15	ug/L	98
30) 1,1-dichloroethane	9.643	63	283756	49.16	ug/L	99
31) chloroprene	9.763	53	246557	53.02	ug/L	95
32) acrylonitrile	8.806	53	40885	58.02	ug/L	95
33) vinyl acetate	9.586	86	24336	56.34	ug/L #	86
34) 2-butanone	10.401	72	50394	224.73	ug/L	98
35) ethyl acetate	10.433	45	17682	58.61	ug/L #	73
36) 2,2-dichloropropane	10.506	77	245150	51.14	ug/L	98
37) cis-1,2-dichloroethene	10.469	96	165317	47.65	ug/L	98
38) methyl acrylate	10.522	85	15858	53.82	ug/L #	86
39) propionitrile	10.485	54	159715	561.78	ug/L	83
40) bromochloromethane	10.804	128	67475	50.43	ug/L	95
41) tetrahydrofuran	10.815	42	34743	54.51	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223285.d
Acq On : 25 Oct 2018 9:17 am
Operator : prashanS
Sample : BS Inst : MSC
Misc : MS30272,VC8293,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:33:54 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) chloroform	10.904	83	259032	48.24	ug/L		98
43) t-butyl formate	10.945	59	120969	87.51	ug/L		98
45) methacrylonitrile	10.705	67	44613	55.18	ug/L		88
46) cyclohexane	11.291	84	262872	50.40	ug/L		96
47) 1,1,1-trichloroethane	11.176	97	238917	49.60	ug/L		98
48) 1,1-dichloropropene	11.359	75	210457	47.94	ug/L		99
49) carbon tetrachloride	11.385	117	194495	48.53	ug/L		98
50) tert-amyl alcohol	11.505	73	36878	281.63	ug/L		97
51) isobutyl alcohol	11.338	43	58909	583.37	ug/L		93
54) isopropyl acetate	11.542	87	27703	55.55	ug/L	#	89
55) 2,2,4-trimethylpentane	11.725	57	775053	55.14	ug/L		99
56) tert-amyl methyl ether	11.714	73	481543	55.23	ug/L		99
57) benzene	11.615	78	625020	48.87	ug/L		99
58) heptane	11.892	57	148307	50.98	ug/L		99
59) 1,2-dichloroethane	11.651	62	183796	49.11	ug/L		98
60) n-butyl alcohol	12.112	56	192307	3031.73	ug/L		94
61) ethyl acrylate	12.363	55	147958	57.72	ug/L		99
62) trichloroethene	12.363	95	148818	47.95	ug/L		99
63) 2-chloroethyl vinyl ether	13.153	63	74280	557.74	ug/L		97
64) 2-nitropropane	13.111	41	34059	61.62	ug/L		100
65) methylcyclohexane	12.656	83	321875	52.21	ug/L		95
66) methyl methacrylate	12.624	100	30130	53.75	ug/L	#	85
67) 1,2-dichloropropane	12.650	63	162197	50.41	ug/L		99
68) dibromomethane	12.760	93	75193	50.13	ug/L		98
69) bromodichloromethane	12.917	83	190696	50.79	ug/L		98
70) epichlorohydrin	13.231	57	58555	317.09	ug/L		98
71) cis-1,3-dichloropropene	13.362	75	247334	52.84	ug/L		96
72) 4-methyl-2-pentanone	13.461	58	193807	239.84	ug/L		94
73) 3-methyl-1-butanol	13.466	55	129653	1272.38	ug/L		95
76) toluene	13.728	92	398752	46.99	ug/L		96
77) ethyl methacrylate	13.900	69	168447	55.35	ug/L		95
78) trans-1,3-dichloropropene	13.911	75	215445	50.33	ug/L		99
79) 1,1,2-trichloroethane	14.125	83	96202	50.20	ug/L		98
80) 2-hexanone	14.272	58	191128	241.82	ug/L		97
81) tetrachloroethene	14.256	166	155240	47.51	ug/L		98
82) 1,3-dichloropropane	14.293	76	205460	50.28	ug/L		98
83) butyl acetate	14.350	56	94879	59.99	ug/L		96
84) dibromochloromethane	14.528	129	125337	51.24	ug/L		99
85) 1,2-dibromoethane	14.669	107	118249	51.84	ug/L		100
86) n-butyl ether	15.062	57	805051	52.31	ug/L		99
87) chlorobenzene	15.109	112	425044	47.59	ug/L		98
88) 1,1,1,2-tetrachloroethane	15.171	131	141357	47.86	ug/L		97
89) ethylbenzene	15.161	91	786755	48.31	ug/L		100
90) m,p-xylene	15.271	106	604408	96.56	ug/L		98
91) o-xylene	15.632	91	628060	48.98	ug/L		99
92) styrene	15.642	104	486842	51.53	ug/L		98
93) butyl acrylate	15.464	55	270567	58.33	ug/L		98
94) bromoform	15.856	173	77338	55.33	ug/L		98
95) isopropylbenzene	15.935	105	780610	48.65	ug/L		99
96) cis-1,4-dichloro-2-butene	15.966	88	58756	57.50	ug/L		94
99) bromobenzene	16.285	156	175601	48.25	ug/L		97
100) 1,1,2,2-tetrachloroethane	16.181	83	153701	51.59	ug/L		100
101) trans-1,4-dichloro-2-b...	16.202	53	45677	56.97	ug/L		92
102) 1,2,3-trichloropropane	16.259	110	42942	52.23	ug/L		91
103) n-propylbenzene	16.296	91	964524	48.14	ug/L		100
104) 2-chlorotoluene	16.416	126	185247	47.58	ug/L		97
105) 4-chlorotoluene	16.515	91	561821	49.16	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223285.d
Acq On : 25 Oct 2018 9:17 am
Operator : prashanS
Sample : BS Inst : MSC
Misc : MS30272,VC8293,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:33:54 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
106) 1,3,5-trimethylbenzene	16.421	105	665984	47.51 ug/L	98
107) tert-butylbenzene	16.719	134	141701	47.27 ug/L	92
108) 1,2,4-trimethylbenzene	16.761	105	674780	48.28 ug/L	100
109) sec-butylbenzene	16.903	105	878302	47.90 ug/L	99
110) 1,3-dichlorobenzene	17.059	146	354217	47.61 ug/L	99
111) p-isopropyltoluene	17.007	119	736299	48.10 ug/L	99
112) 1,4-dichlorobenzene	17.138	146	352789	46.99 ug/L	98
113) benzyl chloride	17.211	91	355306	61.97 ug/L	98
114) 1,2-dichlorobenzene	17.446	146	329808	48.50 ug/L	98
115) n-butylbenzene	17.347	92	405395	49.59 ug/L	97
116) hexachloroethane	17.697	201	106318	53.94 ug/L	97
117) 1,2-dibromo-3-chloropr...	18.079	157	31681	56.85 ug/L	97
118) 1,3,5-trichlorobenzene	18.226	180	286657	48.85 ug/L	99
120) 2-ethylhexyl acrylate	18.702	70	32431	9.54 ug/L	96
121) 1,2,4-trichlorobenzene	18.775	180	246048	49.25 ug/L	100
122) hexachlorobutadiene	18.853	225	143771	52.53 ug/L	99
123) naphthalene	19.036	128	523055	52.07 ug/L	100
124) 1,2,3-trichlorobenzene	19.225	180	223273	49.46 ug/L	99
125) 2-methylnaphthalene	20.088	142	155927	26.85 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

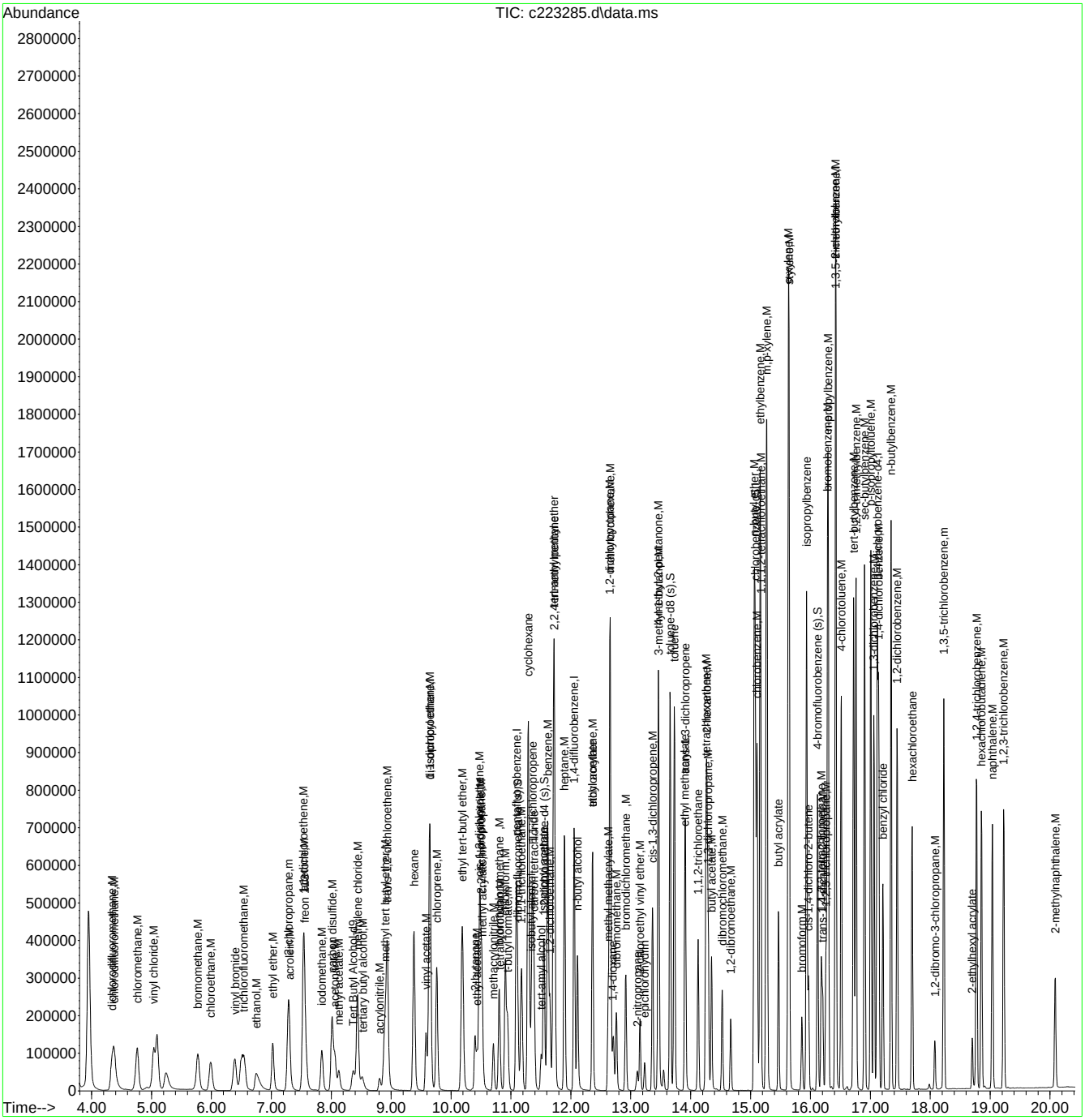
7.3.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223285.d
Acq On : 25 Oct 2018 9:17 am
Operator : prashanS
Sample : BS Inst : MSC
Misc : MS30272,VC8293,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:33:54 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260129.d
Acq On : 24 Oct 2018 1:48 pm
Operator : thienn
Sample : jc76425-1ms Inst : MSD
Misc : ms30246,vd10499,6.7,,100,10,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:44:55 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.504	65	46800	500.00	ug/L	-0.04
5) pentafluorobenzene	9.753	168	92699	50.00	ug/L	-0.05
54) 1,4-difluorobenzene	10.710	114	132470	50.00	ug/L	-0.05
75) chlorobenzene-d5	14.120	117	130890	50.00	ug/L	-0.04
98) 1,4-dichlorobenzene-d4	16.766	152	93170	50.00	ug/L	-0.04
System Monitoring Compounds						
46) dibromofluoromethane (s)	9.784	113	39244	43.56	ug/L	-0.05
Spiked Amount 50.000	Range 75 - 127		Recovery = 87.12%			
55) 1,2-dichloroethane-d4 (s)	10.213	65	45435	46.91	ug/L	-0.05
Spiked Amount 50.000	Range 75 - 130		Recovery = 93.82%			
76) toluene-d8 (s)	12.446	98	158172	45.72	ug/L	-0.04
Spiked Amount 50.000	Range 80 - 120		Recovery = 91.44%			
99) 4-bromofluorobenzene (s)	15.443	95	64390	45.92	ug/L	-0.04
Spiked Amount 50.000	Range 79 - 127		Recovery = 91.84%			
Target Compounds						Qvalue
2) ethanol	6.484	45	19129	1500.55	ug/L #	40
3) tertiary butyl alcohol	7.608	59	30506	252.67	ug/L	90
4) 1,4-dioxane	11.384	88	14828	1295.83	ug/L	93
6) chlorodifluoromethane	4.413	51	114455	51.47	ug/L	99
7) dichlorodifluoromethane	4.407	85	107084	43.00	ug/L	98
8) chloromethane	4.779	50	105391	40.37	ug/L	98
10) vinyl chloride	4.988	62	101667	42.73	ug/L	99
11) bromomethane	5.569	94	60615	43.49	ug/L	99
12) chloroethane	5.699	64	51605	39.88	ug/L	95
13) trichlorofluoromethane	6.160	101	111954	46.41	ug/L	98
14) vinyl bromide	6.044	106	61197	47.24	ug/L	96
15) ethyl ether	6.479	74	24736	44.96	ug/L	92
16) 2-chloropropane	6.683	43	110982	47.26	ug/L	96
17) acrolein	6.672	56	8831	40.24	ug/L	92
18) freon 113	6.939	151	59383	54.97	ug/L	95
19) 1,1-dichloroethene	6.897	96	63020	51.80	ug/L	90
20) acetone	6.860	58	15330	198.77	ug/L	96
21) acetonitrile	7.237	41	72619	422.73	ug/L	97
22) iodomethane	7.164	142	104042	57.13	ug/L	99
23) carbon disulfide	7.310	76	210284	52.44	ug/L	99
24) methylene chloride	7.556	84	62883	47.49	ug/L	94
25) methyl acetate	7.310	43	32071	44.86	ug/L	94
26) methyl tert butyl ether	7.938	73	178421	43.70	ug/L	100
27) trans-1,2-dichloroethene	7.953	96	50437	46.30	ug/L	92
28) hexane	8.320	56	35465	46.09	ug/L	96
29) di-isopropyl ether	8.518	45	184035	44.16	ug/L	97
30) 2-butanone	9.130	72	18441	189.81	ug/L	93
31) 1,1-dichloroethane	8.508	63	87811	45.15	ug/L	98
32) chloroprene	8.618	53	74366	45.58	ug/L	95
33) acrylonitrile	7.802	53	14667	47.71	ug/L	89
34) vinyl acetate	8.435	86	9102	50.46	ug/L #	91
35) ethyl tert-butyl ether	8.979	59	196571	45.47	ug/L	99
36) ethyl acetate	9.156	45	5729	38.82	ug/L #	87
37) 2,2-dichloropropane	9.266	77	106199	48.44	ug/L	98
38) cis-1,2-dichloroethene	9.219	96	54925	47.40	ug/L	91
39) propionitrile	9.183	54	68406	430.62	ug/L	97
40) methyl acrylate	9.251	85	5916	48.11	ug/L #	66
41) methacrylonitrile	9.397	67	16550	45.34	ug/L	94
42) bromochloromethane	9.512	128	26027	50.27	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260129.d
Acq On : 24 Oct 2018 1:48 pm
Operator : thienn
Sample : jc76425-1ms Inst : MSD
Misc : ms30246,vd10499,6.7,,100,10,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:44:55 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	tetrahydrofuran	9.554	42	14397	43.54	ug/L		94
44)	chloroform	9.596	83	85211	45.11	ug/L		98
45)	tert-butyl formate	9.643	59	59986	49.73	ug/L		93
47)	1,1,1-trichloroethane	9.889	97	101233	47.95	ug/L		99
48)	cyclohexane	10.035	84	105306	42.95	ug/L		90
50)	1,1-dichloropropene	10.056	75	65031	43.85	ug/L		97
51)	carbon tetrachloride	10.103	117	85480	48.61	ug/L		98
52)	tert-amyl alcohol	10.145	73	14656	193.08	ug/L		88
53)	isopropyl acetate	10.056	87	505	2.19	ug/L		90
56)	n-butyl alcohol	10.731	56	80351	2013.60	ug/L		93
57)	2,2,4-trimethylpentane	10.433	57	220615	45.40	ug/L		99
58)	benzene	10.307	78	195451	48.78	ug/L		98
59)	tert-amyl methyl ether	10.396	73	193134	51.49	ug/L		98
60)	heptane	10.584	57	35251	42.75	ug/L		92
61)	1,2-dichloroethane	10.307	62	62612	49.14	ug/L		99
62)	ethyl acrylate	11.008	55	48508	45.78	ug/L		97
63)	trichloroethene	11.050	95	48095	51.27	ug/L		95
64)	2-chloroethyl vinyl ether	11.845	63	136491	259.18	ug/L		98
65)	methyl methacrylate	11.290	100	11285	50.13	ug/L	#	75
66)	methylcyclohexane	11.384	83	110454	48.09	ug/L		97
67)	1,2-dichloropropane	11.332	63	48349	46.60	ug/L		98
68)	dibromomethane	11.442	93	28195	50.62	ug/L		91
69)	bromodichloromethane	11.599	83	66229	50.32	ug/L		95
70)	2-nitropropane	11.850	41	6414	29.25	ug/L		71
71)	epichlorohydrin	11.928	57	24501	243.13	ug/L		98
72)	cis-1,3-dichloropropene	12.090	75	79474	50.04	ug/L		97
73)	4-methyl-2-pentanone	12.190	58	68771	180.77	ug/L		88
74)	isoamyl alcohol	12.179	70	34094	958.20	ug/L		88
77)	toluene	12.525	92	122616	47.74	ug/L		95
78)	ethyl methacrylate	12.708	69	57928	46.94	ug/L		98
79)	trans-1,3-dichloropropene	12.702	75	71899	49.54	ug/L		98
80)	1,1,2-trichloroethane	12.943	83	32810	46.78	ug/L		97
81)	tetrachloroethene	13.152	164	42669	53.33	ug/L		98
82)	2-hexanone	13.126	58	61897	183.27	ug/L		99
83)	1,3-dichloropropane	13.147	76	67747	47.60	ug/L		98
84)	butyl acetate	13.231	56	29806	44.78	ug/L		99
85)	dibromochloromethane	13.429	129	50137	50.95	ug/L		99
86)	1,2-dibromoethane	13.607	107	44522	51.74	ug/L		95
87)	n-butyl ether	14.130	57	234712	44.38	ug/L		99
88)	chlorobenzene	14.156	112	141233	52.42	ug/L		97
89)	1,1,1,2-tetrachloroethane	14.230	131	60865	50.62	ug/L		96
90)	ethylbenzene	14.235	91	245341	50.39	ug/L		98
91)	m,p-xylene	14.371	106	193334	103.59	ug/L		97
92)	o-xylene	14.826	91	214554	49.69	ug/L		100
93)	styrene	14.831	104	165020	53.42	ug/L		100
94)	butyl acrylate	14.622	55	97137	43.75	ug/L		98
95)	isopropylbenzene	15.223	105	285184	50.14	ug/L		99
96)	bromoform	15.082	173	37534	58.93	ug/L		99
97)	cis-1,4-dichloro-2-butene	15.229	88	23738	52.38	ug/L		97
100)	1,1,2,2-tetrachloroethane	15.506	83	62017	45.11	ug/L		98
101)	trans-1,4-dichloro-2-b...	15.542	53	16224	43.85	ug/L		100
102)	1,2,3-trichloropropane	15.605	110	18650	48.01	ug/L		96
103)	bromobenzene	15.652	156	70352	53.64	ug/L		94
104)	n-propylbenzene	15.694	91	318583	47.23	ug/L		98
105)	2-chlorotoluene	15.840	126	68291	49.98	ug/L		96
106)	4-chlorotoluene	15.966	91	195614	49.20	ug/L		97
107)	1,3,5-trimethylbenzene	15.872	105	262855	48.06	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260129.d
Acq On : 24 Oct 2018 1:48 pm
Operator : thienn
Sample : jc76425-1ms Inst : MSD
Misc : ms30246,vd10499,6.7,,100,10,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:44:55 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

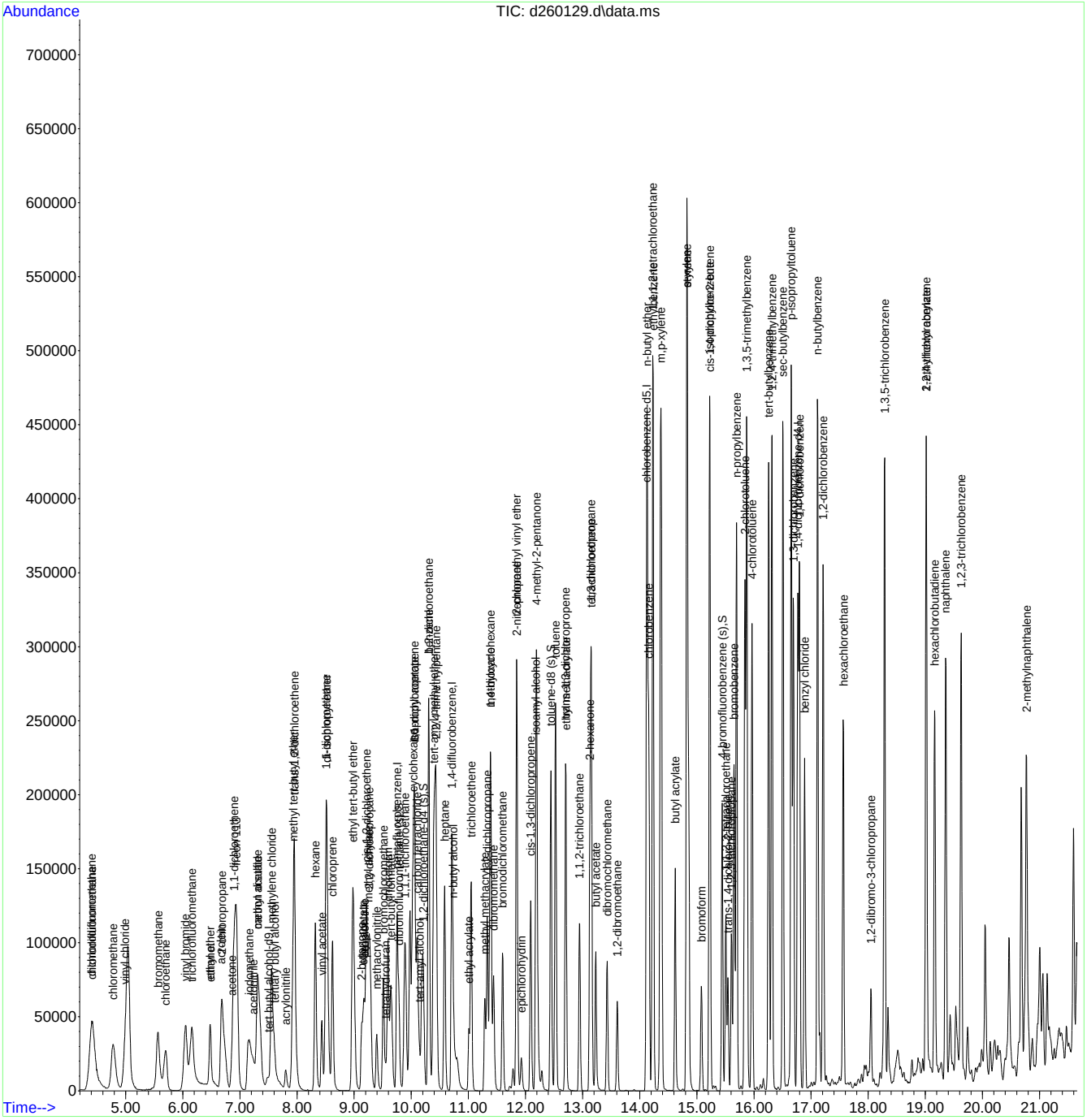
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) tert-butylbenzene	16.259	119	223177	45.62	ug/L	97
109) 1,2,4-trimethylbenzene	16.316	105	270630	49.29	ug/L	100
110) sec-butylbenzene	16.505	105	342157	46.40	ug/L	100
111) p-isopropyltoluene	16.651	119	302841	48.62	ug/L	99
112) 1,3-dichlorobenzene	16.693	146	150892	52.35	ug/L	98
113) 1,4-dichlorobenzene	16.798	146	155501	52.61	ug/L	98
114) 1,2-dichlorobenzene	17.211	146	158807	50.92	ug/L	97
115) benzyl chloride	16.887	91	172319	51.93	ug/L	99
116) n-butylbenzene	17.111	92	151511	48.35	ug/L	96
117) 2-ethylhexyl acrylate	19.015	70	20014	13.14	ug/L	94
118) hexachloroethane	17.566	201	52520	50.36	ug/L	98
119) 1,2-dibromo-3-chloropr...	18.048	75	15318	45.74	ug/L	82
120) 1,3,5-trichlorobenzene	18.288	180	154795	53.14	ug/L	99
121) 1,2,4-trichlorobenzene	19.015	180	138176	57.67	ug/L	97
122) hexachlorobutadiene	19.162	225	64318	51.61	ug/L	97
123) naphthalene	19.355	128	280081	56.09	ug/L	98
124) 1,2,3-trichlorobenzene	19.627	180	118271	57.78	ug/L	99
125) 2-methylnaphthalene	20.773	142	105321	51.48	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260129.d
Acq On : 24 Oct 2018 1:48 pm
Operator : thienn
Sample : jc76425-1ms Inst : MSD
Misc : ms30246,vd10499,6.7,,100,10,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:44:55 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration



MD10401.M Wed Oct 24 20:52:50 2018 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260130.d
Acq On : 24 Oct 2018 2:17 pm
Operator : thienn
Sample : jc76425-1msd Inst : MSD
Misc : ms30246,vd10499,6.7,,100,10,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:45:17 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.494	65	44345	500.00	ug/L	-0.05
5) pentafluorobenzene	9.753	168	92701	50.00	ug/L	-0.05
54) 1,4-difluorobenzene	10.710	114	127593	50.00	ug/L	-0.05
75) chlorobenzene-d5	14.121	117	128327	50.00	ug/L	-0.04
98) 1,4-dichlorobenzene-d4	16.767	152	88421	50.00	ug/L	-0.04
System Monitoring Compounds						
46) dibromofluoromethane (s)	9.785	113	38069	42.26	ug/L	-0.05
Spiked Amount 50.000	Range 75 - 127		Recovery = 84.52%			
55) 1,2-dichloroethane-d4 (s)	10.214	65	43323	46.44	ug/L	-0.05
Spiked Amount 50.000	Range 75 - 130		Recovery = 92.88%			
76) toluene-d8 (s)	12.447	98	152240	44.88	ug/L	-0.04
Spiked Amount 50.000	Range 80 - 120		Recovery = 89.76%			
99) 4-bromofluorobenzene (s)	15.444	95	61939	46.55	ug/L	-0.04
Spiked Amount 50.000	Range 79 - 127		Recovery = 93.10%			
Target Compounds						Qvalue
2) ethanol	6.484	45	67854	5617.39	ug/L	52
3) tertiary butyl alcohol	7.599	59	25837	225.85	ug/L	97
4) 1,4-dioxane	11.380	88	12825	1182.83	ug/L	93
6) chlorodifluoromethane	4.413	51	104003	46.77	ug/L	99
7) dichlorodifluoromethane	4.419	85	97038	38.97	ug/L	97
8) chloromethane	4.774	50	96895	37.11	ug/L	99
10) vinyl chloride	4.994	62	94146	39.57	ug/L	98
11) bromomethane	5.559	94	54922	39.40	ug/L	98
12) chloroethane	5.695	64	47903	37.01	ug/L	95
13) trichlorofluoromethane	6.155	101	101069	41.90	ug/L	99
14) vinyl bromide	6.040	106	56664	43.74	ug/L	99
15) ethyl ether	6.479	74	21428	38.95	ug/L	94
16) 2-chloropropane	6.683	43	97294	41.43	ug/L	96
17) acrolein	6.678	56	8013	36.51	ug/L	89
18) freon 113	6.945	151	54249	50.22	ug/L	94
19) 1,1-dichloroethene	6.892	96	55467	45.59	ug/L	91
20) acetone	6.866	58	13292	172.34	ug/L	89
21) acetonitrile	7.232	41	62822	365.69	ug/L	93
22) iodomethane	7.149	142	93583	51.38	ug/L	95
23) carbon disulfide	7.311	76	189305	47.21	ug/L	100
24) methylene chloride	7.557	84	55840	42.17	ug/L	95
25) methyl acetate	7.316	43	27062	37.86	ug/L	91
26) methyl tert butyl ether	7.933	73	159197	38.99	ug/L	98
27) trans-1,2-dichloroethene	7.954	96	44462	40.82	ug/L	96
28) hexane	8.320	56	31116	40.44	ug/L	95
29) di-isopropyl ether	8.519	45	162504	38.99	ug/L	98
30) 2-butanone	9.131	72	15591	160.48	ug/L #	81
31) 1,1-dichloroethane	8.509	63	76176	39.17	ug/L	96
32) chloroprene	8.624	53	64871	39.76	ug/L	93
33) acrylonitrile	7.808	53	12295	39.99	ug/L	90
34) vinyl acetate	8.435	86	7975	44.21	ug/L	96
35) ethyl tert-butyl ether	8.985	59	175098	40.50	ug/L	97
36) ethyl acetate	9.157	45	4777	32.37	ug/L #	82
37) 2,2-dichloropropane	9.272	77	94860	43.26	ug/L	99
38) cis-1,2-dichloroethene	9.215	96	48428	41.79	ug/L	94
39) propionitrile	9.178	54	57068	359.23	ug/L	98
40) methyl acrylate	9.246	85	5042	41.00	ug/L #	72
41) methacrylonitrile	9.398	67	13838	37.91	ug/L	93
42) bromochloromethane	9.513	128	23242	44.89	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260130.d
Acq On : 24 Oct 2018 2:17 pm
Operator : thienn
Sample : jc76425-1msd Inst : MSD
Misc : ms30246,vd10499,6.7,,100,10,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:45:17 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	tetrahydrofuran	9.549	42	12434	37.60	ug/L		95
44)	chloroform	9.596	83	74057	39.21	ug/L		98
45)	tert-butyl formate	9.649	59	53446	44.31	ug/L		96
47)	1,1,1-trichloroethane	9.895	97	89832	42.55	ug/L		99
48)	cyclohexane	10.036	84	93985	38.33	ug/L		89
50)	1,1-dichloropropene	10.057	75	57063	38.48	ug/L		96
51)	carbon tetrachloride	10.104	117	76411	43.45	ug/L		99
52)	tert-amyl alcohol	10.151	73	11878	156.48	ug/L	#	82
53)	isopropyl acetate	10.187	87	8681	37.66	ug/L		95
56)	n-butyl alcohol	10.726	56	63972	1664.42	ug/L		93
57)	2,2,4-trimethylpentane	10.428	57	192442	41.12	ug/L		97
58)	benzene	10.308	78	169297	43.87	ug/L		98
59)	tert-amyl methyl ether	10.397	73	170163	47.10	ug/L		99
60)	heptane	10.585	57	31159	39.23	ug/L		93
61)	1,2-dichloroethane	10.303	62	53837	43.87	ug/L		99
62)	ethyl acrylate	11.009	55	41898	41.06	ug/L		95
63)	trichloroethene	11.045	95	41940	46.42	ug/L		98
64)	2-chloroethyl vinyl ether	11.845	63	118737	234.09	ug/L		98
65)	methyl methacrylate	11.286	100	9771	45.06	ug/L	#	85
66)	methylcyclohexane	11.390	83	99315	44.90	ug/L		97
67)	1,2-dichloropropane	11.333	63	41928	41.95	ug/L		96
68)	dibromomethane	11.443	93	23873	44.50	ug/L		93
69)	bromodichloromethane	11.600	83	56832	44.83	ug/L		97
70)	2-nitropropane	11.845	41	5337	25.27	ug/L		66
71)	epichlorohydrin	11.924	57	20206	208.18	ug/L		97
72)	cis-1,3-dichloropropene	12.091	75	68135	44.54	ug/L		99
73)	4-methyl-2-pentanone	12.191	58	59655	162.80	ug/L		93
74)	isoamyl alcohol	12.185	70	26987	787.45	ug/L		93
77)	toluene	12.525	92	105607	41.94	ug/L		95
78)	ethyl methacrylate	12.708	69	49692	41.07	ug/L		98
79)	trans-1,3-dichloropropene	12.703	75	61853	43.47	ug/L		98
80)	1,1,2-trichloroethane	12.949	83	28108	40.88	ug/L		92
81)	tetrachloroethene	13.153	164	37738	48.11	ug/L		98
82)	2-hexanone	13.127	58	53223	160.74	ug/L		97
83)	1,3-dichloropropane	13.148	76	58517	41.94	ug/L		95
84)	butyl acetate	13.231	56	26472	40.57	ug/L		99
85)	dibromochloromethane	13.430	129	44167	45.78	ug/L		99
86)	1,2-dibromoethane	13.608	107	38234	45.32	ug/L		98
87)	n-butyl ether	14.131	57	206305	39.79	ug/L		98
88)	chlorobenzene	14.157	112	122091	46.22	ug/L		96
89)	1,1,1,2-tetrachloroethane	14.230	131	54002	45.81	ug/L		99
90)	ethylbenzene	14.236	91	214895	45.02	ug/L		98
91)	m,p-xylene	14.372	106	169972	92.89	ug/L		100
92)	o-xylene	14.827	91	189995	44.88	ug/L		99
93)	styrene	14.832	104	145745	48.12	ug/L		97
94)	butyl acrylate	14.623	55	86532	39.76	ug/L		99
95)	isopropylbenzene	15.224	105	249792	44.79	ug/L		98
96)	bromoform	15.083	173	32516	52.08	ug/L		98
97)	cis-1,4-dichloro-2-butene	15.229	88	21023	47.32	ug/L		97
100)	1,1,2,2-tetrachloroethane	15.506	83	53296	40.85	ug/L		97
101)	trans-1,4-dichloro-2-b...	15.548	53	14274	40.65	ug/L		97
102)	1,2,3-trichloropropane	15.606	110	16063	43.57	ug/L		94
103)	bromobenzene	15.653	156	62299	50.05	ug/L		95
104)	n-propylbenzene	15.695	91	280113	43.75	ug/L		97
105)	2-chlorotoluene	15.841	126	60010	46.27	ug/L		95
106)	4-chlorotoluene	15.967	91	169225	44.85	ug/L		98
107)	1,3,5-trimethylbenzene	15.873	105	226670	43.67	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260130.d
Acq On : 24 Oct 2018 2:17 pm
Operator : thienn
Sample : jc76425-1msd Inst : MSD
Misc : ms30246,vd10499,6.7,,100,10,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:45:17 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

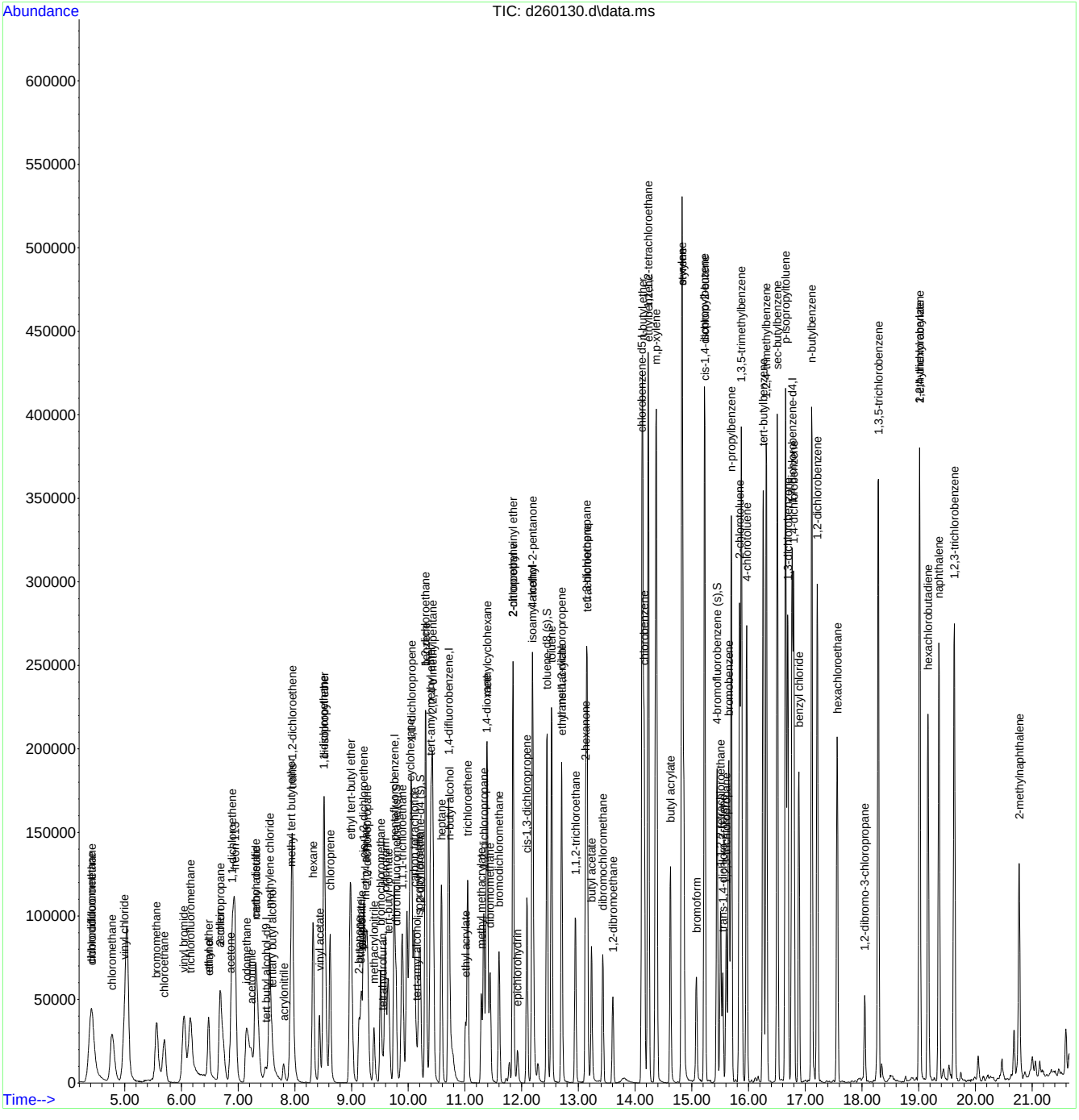
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
108) tert-butylbenzene	16.260	119	190090	40.94 ug/L	97
109) 1,2,4-trimethylbenzene	16.312	105	230103	44.16 ug/L	99
110) sec-butylbenzene	16.505	105	295579	42.24 ug/L	100
111) p-isopropyltoluene	16.652	119	258861	43.79 ug/L	99
112) 1,3-dichlorobenzene	16.694	146	129849	47.47 ug/L	98
113) 1,4-dichlorobenzene	16.798	146	134669	48.01 ug/L	97
114) 1,2-dichlorobenzene	17.212	146	136092	45.98 ug/L	95
115) benzyl chloride	16.887	91	144658	45.93 ug/L	97
116) n-butylbenzene	17.112	92	129760	43.63 ug/L	97
117) 2-ethylhexyl acrylate	19.016	70	15050	10.64 ug/L	94
118) hexachloroethane	17.567	201	43377	43.83 ug/L	98
119) 1,2-dibromo-3-chloropr...	18.048	75	13003	40.91 ug/L	80
120) 1,3,5-trichlorobenzene	18.289	180	135572	49.04 ug/L	98
121) 1,2,4-trichlorobenzene	19.016	180	124228	54.63 ug/L	96
122) hexachlorobutadiene	19.162	225	56629	47.88 ug/L	96
123) naphthalene	19.356	128	245525	51.81 ug/L	98
124) 1,2,3-trichlorobenzene	19.628	180	108113	55.65 ug/L	99
125) 2-methylnaphthalene	20.773	142	71705	36.93 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260130.d
Acq On : 24 Oct 2018 2:17 pm
Operator : thienn
Sample : jc76425-1msd Inst : MSD
Misc : ms30246,vd10499,6.7,,100,10,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:45:17 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223291.d
Acq On : 25 Oct 2018 12:25 pm
Operator : prashanS
Sample : JC76497-1MS Inst : MSC
Misc : MS30276,VC8293,5.9,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:39:23 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.364	65	74663	500.00	ug/L	-0.05
5) pentafluorobenzene	11.089	168	303715	50.00	ug/L	-0.03
52) 1,4-difluorobenzene	12.057	114	471574	50.00	ug/L	-0.03
74) chlorobenzene-d5	15.080	117	434322	50.00	ug/L	-0.02
97) 1,4-dichlorobenzene-d4	17.114	152	217590	50.00	ug/L	-0.02
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.110	113	125450	50.09	ug/L	-0.04
Spiked Amount 50.000	Range 75 - 127		Recovery = 100.18%			
53) 1,2-dichloroethane-d4 (s)	11.555	65	128490	49.65	ug/L	-0.04
Spiked Amount 50.000	Range 75 - 130		Recovery = 99.30%			
75) toluene-d8 (s)	13.657	98	583051	49.24	ug/L	-0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.48%			
98) 4-bromofluorobenzene (s)	16.121	174	162333	51.19	ug/L	-0.02
Spiked Amount 50.000	Range 79 - 127		Recovery = 102.38%			
Target Compounds						Qvalue
2) ethanol	6.743	45	118624	6885.48	ug/L	99
3) tertiary butyl alcohol	8.511	59	69041	361.15	ug/L	96
4) 1,4-dioxane	12.695	88	21895	1447.82	ug/L	96
6) chlorodifluoromethane	4.363	51	256666	90.00	ug/L	96
7) dichlorodifluoromethane	4.327	85	221524	53.43	ug/L	95
8) chloromethane	4.745	50	268000	58.78	ug/L	98
9) vinyl chloride	5.022	62	247166	56.88	ug/L	99
10) bromomethane	5.760	94	142443	51.95	ug/L	99
11) chloroethane	5.974	64	143762	56.94	ug/L	99
12) vinyl bromide	6.377	106	175829	56.28	ug/L	99
13) trichlorofluoromethane	6.503	101	255697	56.93	ug/L	99
14) ethyl ether	7.015	74	89686	62.03	ug/L	95
15) 2-chloropropane	7.282	43	381717	75.26	ug/L	96
16) acrolein	7.297	56	6927	19.31	ug/L	73
17) freon 113	7.549	151	115021	60.13	ug/L	98
18) 1,1-dichloroethene	7.528	61	291968	68.43	ug/L	97
19) acetone	7.538	43	124298	256.87	ug/L	98
20) acetonitrile	8.056	41	131929	613.51	ug/L	99
21) iodomethane	7.836	142	205406	65.44	ug/L	97
22) carbon disulfide	8.009	76	488460	66.97	ug/L	100
23) methylene chloride	8.432	84	177346	55.39	ug/L	96
24) methyl acetate	8.119	43	120899	95.28	ug/L	97
25) methyl tert butyl ether	8.893	73	421804	63.50	ug/L	96
26) trans-1,2-dichloroethene	8.929	61	269470	67.53	ug/L	97
27) hexane	9.374	57	126196	27.75	ug/L	95
28) di-isopropyl ether	9.641	45	663628	74.50	ug/L	96
29) ethyl tert-butyl ether	10.185	59	594690	71.35	ug/L	98
30) 1,1-dichloroethane	9.641	63	325675	64.45	ug/L	99
31) chloroprene	9.756	53	276375	67.89	ug/L	96
32) acrylonitrile	8.804	53	37481	60.76	ug/L	96
33) vinyl acetate	9.583	86	2253	5.96	ug/L	93
34) 2-butanone	10.399	72	43713	222.66	ug/L	96
35) ethyl acetate	10.436	45	11298	42.78	ug/L #	84
36) 2,2-dichloropropane	10.504	77	219409	52.28	ug/L	99
37) cis-1,2-dichloroethene	10.472	96	186230	61.31	ug/L	98
38) methyl acrylate	10.519	85	17684	68.56	ug/L	92
39) propionitrile	10.483	54	137970	554.31	ug/L	85
40) bromochloromethane	10.802	128	71666	61.18	ug/L	93
41) tetrahydrofuran	10.817	42	32702	58.60	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223291.d
Acq On : 25 Oct 2018 12:25 pm
Operator : prashanS
Sample : JC76497-1MS Inst : MSC
Misc : MS30276,VC8293,5.9,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:39:23 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42)	chloroform	10.906	83	287364	61.12	ug/L		99
43)	t-butyl formate	10.938	59	22222	18.36	ug/L		96
45)	methacrylonitrile	10.708	67	38159	53.91	ug/L		93
46)	cyclohexane	11.288	84	265847	58.22	ug/L		84
47)	1,1,1-trichloroethane	11.173	97	271144	64.29	ug/L		98
48)	1,1-dichloropropene	11.356	75	229270	59.66	ug/L		99
49)	carbon tetrachloride	11.382	117	215138	61.32	ug/L		100
50)	tert-amyl alcohol	11.503	73	31164	271.83	ug/L		97
51)	isobutyl alcohol	11.335	43	45589	515.67	ug/L		94
54)	isopropyl acetate	11.544	87	20089	45.23	ug/L	#	91
55)	2,2,4-trimethylpentane	11.722	57	374584	29.92	ug/L		95
56)	tert-amyl methyl ether	11.712	73	523065	67.36	ug/L		97
57)	benzene	11.612	78	700163	61.47	ug/L		99
58)	heptane	11.890	57	60574	23.38	ug/L		98
59)	1,2-dichloroethane	11.649	62	190560	57.17	ug/L		98
60)	n-butyl alcohol	12.109	56	147969	2619.28	ug/L		94
61)	ethyl acrylate	12.360	55	88593	38.81	ug/L		89
62)	trichloroethene	12.360	95	176202	63.75	ug/L		96
63)	2-chloroethyl vinyl ether	13.155	63	144542	900.06	ug/L		97
64)	2-nitropropane	13.108	41	25392	51.58	ug/L		98
65)	methylcyclohexane	12.653	83	257471	46.90	ug/L		95
66)	methyl methacrylate	12.622	100	29551	59.19	ug/L		90
67)	1,2-dichloropropane	12.653	63	175024	61.08	ug/L		100
68)	dibromomethane	12.758	93	74404	55.69	ug/L		99
69)	bromodichloromethane	12.915	83	203837	60.96	ug/L		99
70)	epichlorohydrin	13.234	57	47099	286.38	ug/L		97
71)	cis-1,3-dichloropropene	13.364	75	243481	58.41	ug/L		98
72)	4-methyl-2-pentanone	13.459	58	179627	249.60	ug/L		97
73)	3-methyl-1-butanol	13.464	55	98860	1089.36	ug/L		90
76)	toluene	13.731	92	426185	56.58	ug/L		99
77)	ethyl methacrylate	13.903	69	118863	44.00	ug/L		95
78)	trans-1,3-dichloropropene	13.914	75	203187	53.47	ug/L		99
79)	1,1,2-trichloroethane	14.123	83	96666	56.82	ug/L		97
80)	2-hexanone	14.269	58	169998	242.30	ug/L		95
81)	tetrachloroethene	14.254	166	150743	51.98	ug/L		99
82)	1,3-dichloropropane	14.290	76	204167	56.28	ug/L		99
83)	butyl acetate	14.348	56	55173	39.30	ug/L		93
84)	dibromochloromethane	14.526	129	123379	56.82	ug/L		100
85)	1,2-dibromoethane	14.667	107	115513	57.05	ug/L		98
86)	n-butyl ether	15.059	57	861611	63.07	ug/L		98
87)	chlorobenzene	15.106	112	423291	53.39	ug/L		97
88)	1,1,1,2-tetrachloroethane	15.169	131	143904	54.88	ug/L		99
89)	ethylbenzene	15.158	91	787676	54.48	ug/L		99
90)	m,p-xylene	15.268	106	597579	107.54	ug/L		96
91)	o-xylene	15.629	91	622546	54.70	ug/L		99
92)	styrene	15.640	104	463247	55.24	ug/L		98
93)	butyl acrylate	15.467	55	168027	40.80	ug/L		99
94)	bromoform	15.859	173	68252	55.00	ug/L		97
95)	isopropylbenzene	15.938	105	722395	50.72	ug/L		99
96)	cis-1,4-dichloro-2-butene	15.969	88	43159	47.58	ug/L		94
99)	bromobenzene	16.283	156	159675	51.08	ug/L		98
100)	1,1,2,2-tetrachloroethane	16.183	83	122741	47.97	ug/L		99
101)	trans-1,4-dichloro-2-b...	16.204	53	34330	49.86	ug/L		93
102)	1,2,3-trichloropropane	16.257	110	38033	53.86	ug/L	#	85
103)	n-propylbenzene	16.299	91	827091	48.07	ug/L		99
104)	2-chlorotoluene	16.419	126	161680	48.35	ug/L		95
105)	4-chlorotoluene	16.513	91	483684	49.28	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223291.d
Acq On : 25 Oct 2018 12:25 pm
Operator : prashanS
Sample : JC76497-1MS Inst : MSC
Misc : MS30276,VC8293,5.9,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:39:23 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

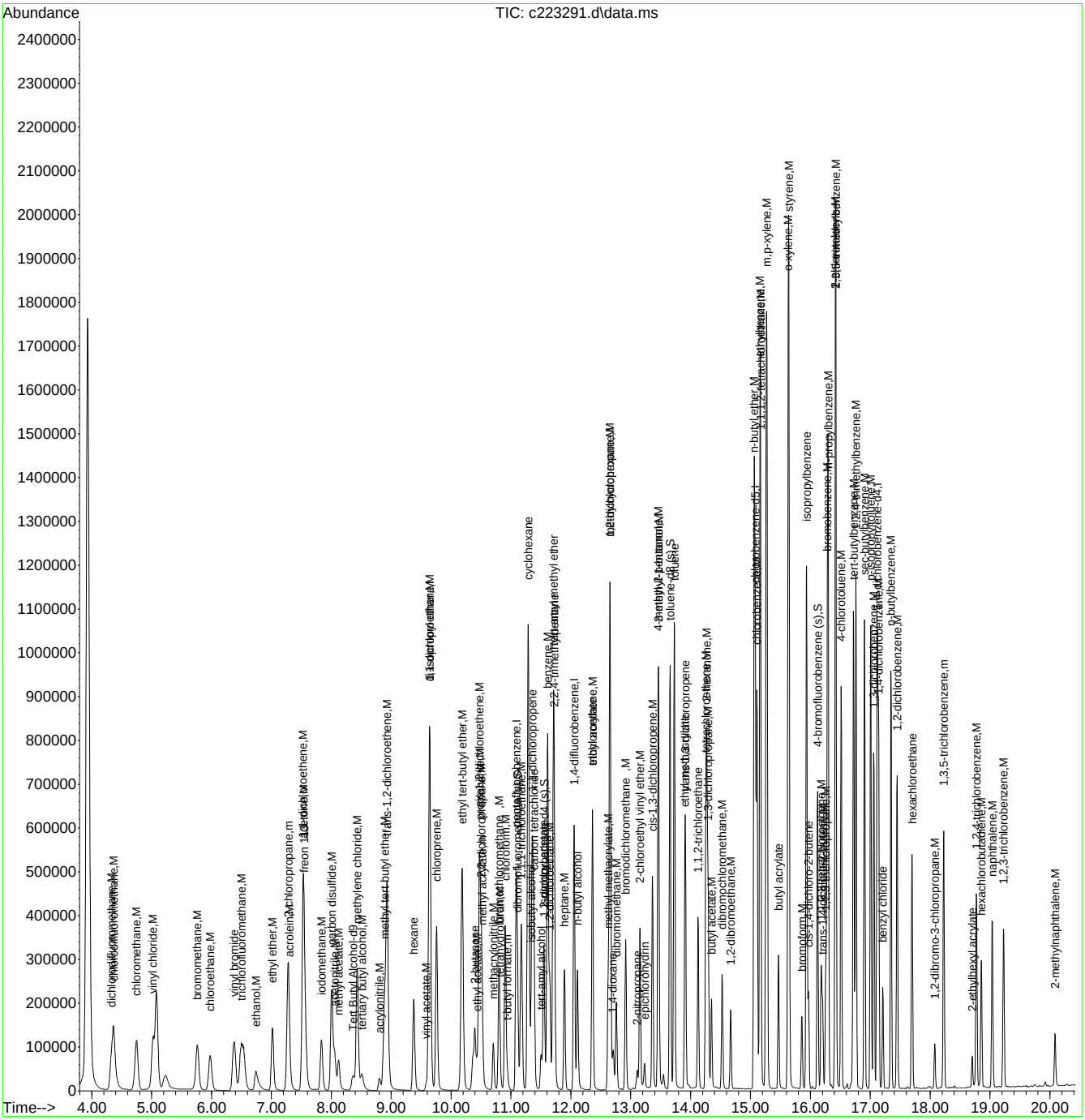
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
106) 1,3,5-trimethylbenzene	16.424	105	579391	48.13 ug/L	99
107) tert-butylbenzene	16.722	134	120291	46.72 ug/L	95
108) 1,2,4-trimethylbenzene	16.759	105	583444	48.60 ug/L	99
109) sec-butylbenzene	16.905	105	673135	42.74 ug/L	99
110) 1,3-dichlorobenzene	17.057	146	277803	43.48 ug/L	99
111) p-isopropyltoluene	17.010	119	559346	42.55 ug/L	99
112) 1,4-dichlorobenzene	17.141	146	275259	42.69 ug/L	98
113) benzyl chloride	17.209	91	144653	29.37 ug/L	99
114) 1,2-dichlorobenzene	17.449	146	254120	43.51 ug/L	100
115) n-butylbenzene	17.345	92	256374	36.52 ug/L	96
116) hexachloroethane	17.700	201	81024	47.87 ug/L	97
117) 1,2-dibromo-3-chloropr...	18.077	157	24056	50.26 ug/L	96
118) 1,3,5-trichlorobenzene	18.228	180	166788	33.09 ug/L	97
120) 2-ethylhexyl acrylate	18.704	70	17664	6.05 ug/L	99
121) 1,2,4-trichlorobenzene	18.772	180	129594	30.21 ug/L	99
122) hexachlorobutadiene	18.856	225	56489	24.03 ug/L	98
123) naphthalene	19.039	128	297511	34.48 ug/L	98
124) 1,2,3-trichlorobenzene	19.227	180	108404	27.96 ug/L	100
125) 2-methylnaphthalene	20.085	142	61668	12.37 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223291.d
Acq On : 25 Oct 2018 12:25 pm
Operator : prashanS
Sample : JC76497-1MS Inst : MSC
Misc : MS30276,VC8293,5.9,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:39:23 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223293.d
Acq On : 25 Oct 2018 1:23 pm
Operator : prashanS
Sample : JC76497-2DUP Inst : MSC
Misc : MS30276,VC8293,5.1,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:40:29 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

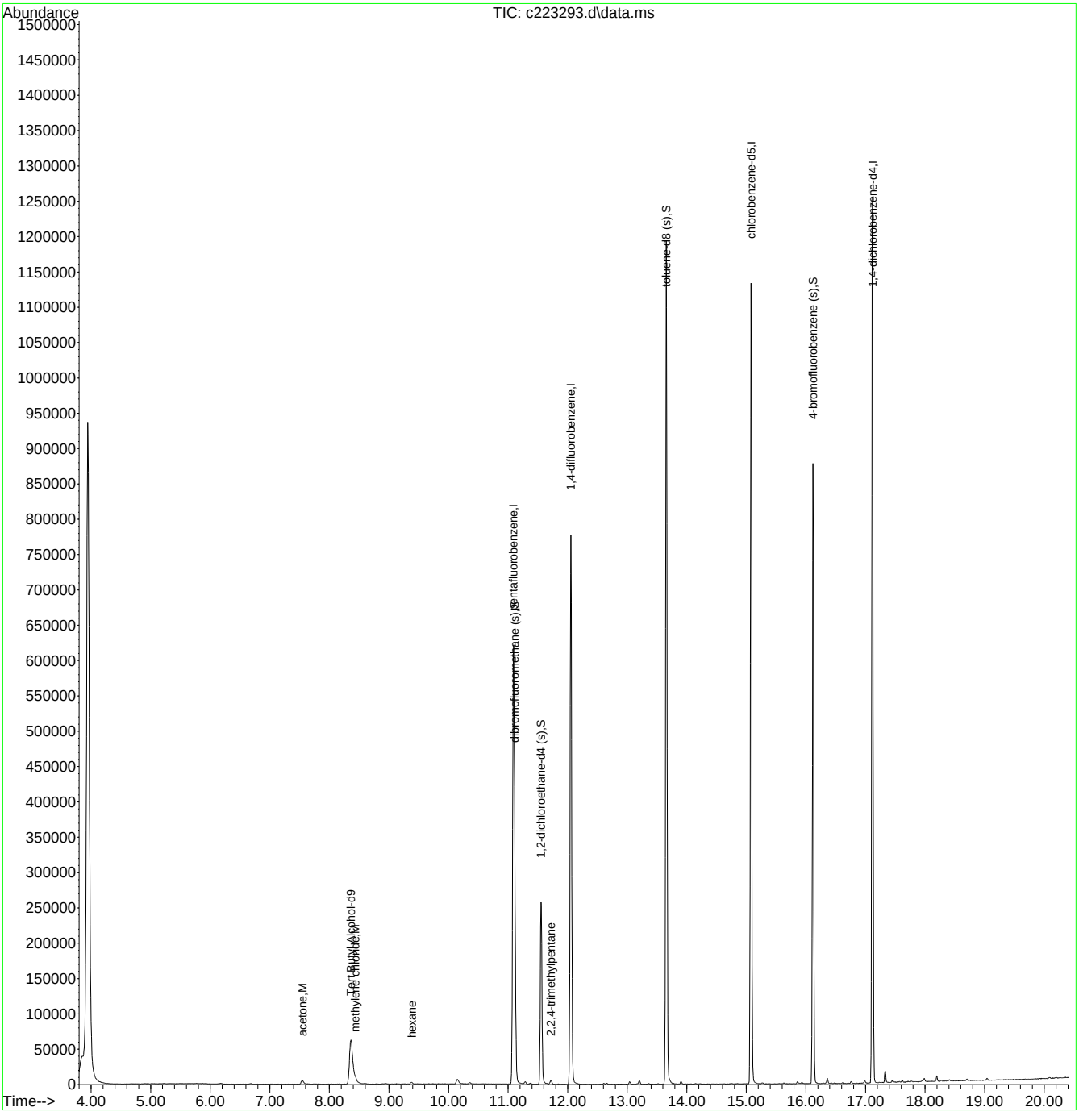
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	143384	500.00	ug/L	-0.05
5) pentafluorobenzene	11.087	168	383076	50.00	ug/L	-0.04
52) 1,4-difluorobenzene	12.055	114	591645	50.00	ug/L	-0.03
74) chlorobenzene-d5	15.078	117	553106	50.00	ug/L	-0.03
97) 1,4-dichlorobenzene-d4	17.118	152	280880	50.00	ug/L	-0.02
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.108	113	157644	49.90	ug/L	-0.04
Spiked Amount 50.000	Range 75 - 127		Recovery = 99.80%			
53) 1,2-dichloroethane-d4 (s)	11.553	65	176491	54.36	ug/L	-0.04
Spiked Amount 50.000	Range 75 - 130		Recovery = 108.72%			
75) toluene-d8 (s)	13.655	98	723298	47.96	ug/L	-0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.92%			
98) 4-bromofluorobenzene (s)	16.119	174	208045	50.82	ug/L	-0.03
Spiked Amount 50.000	Range 79 - 127		Recovery = 101.64%			
Target Compounds						Qvalue
19) acetone	7.547	43	11505	18.85	ug/L	99
23) methylene chloride	8.436	84	2651	0.66	ug/L	94
27) hexane	9.382	57	1385	0.24	ug/L	81
55) 2,2,4-trimethylpentane	11.720	57	5402	0.34	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

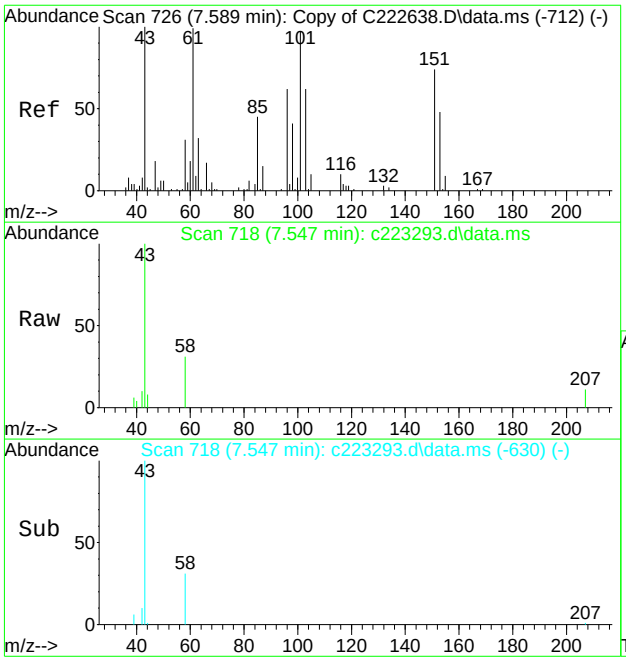
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223293.d
Acq On : 25 Oct 2018 1:23 pm
Operator : prashanS
Sample : JC76497-2DUP Inst : MSC
Misc : MS30276,VC8293,5.1,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:40:29 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration



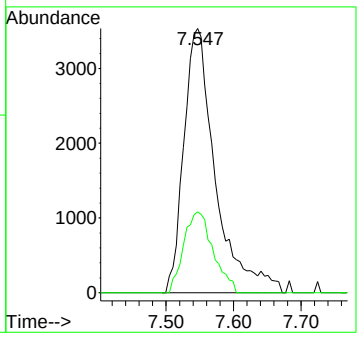
MC8261.M Fri Oct 26 10:44:13 2018 Page: 2

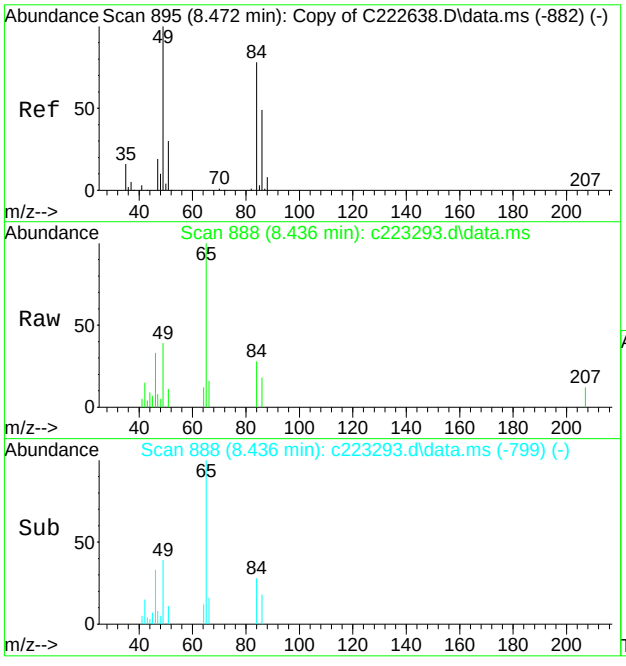


#19
acetone
Concen: 18.85 ug/L
RT: 7.547 min Scan# 718
Delta R.T. -0.042 min
Lab File: c223293.d
Acq: 25 Oct 2018 1:23 pm

Tgt Ion: 43 Resp: 11505

Ion	Ratio	Lower	Upper
43	100		
58	30.6	1.0	61.0

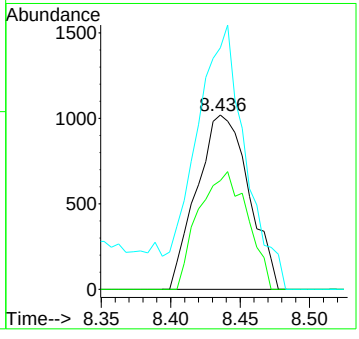




#23
methylene chloride
Concen: 0.66 ug/L
RT: 8.436 min Scan# 888
Delta R.T. -0.037 min
Lab File: c223293.d
Acq: 25 Oct 2018 1:23 pm

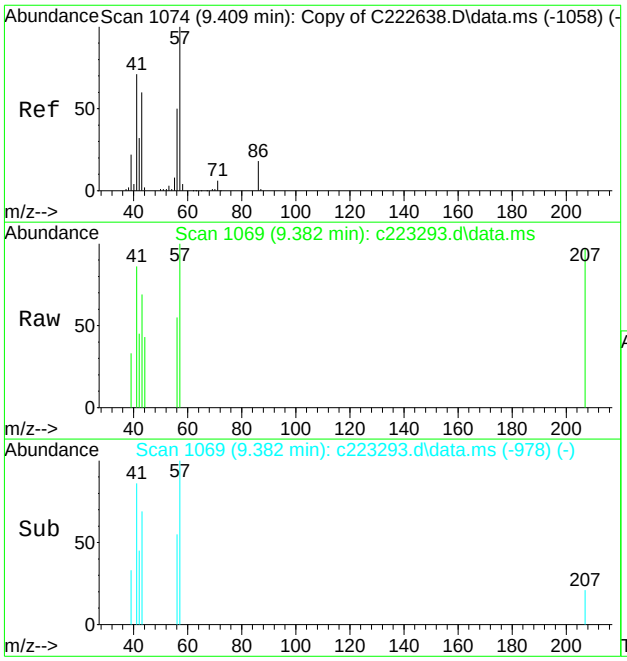
Tgt Ion: 84 Resp: 2651

Ion	Ratio	Lower	Upper
84	100		
86	62.4	33.1	93.1
49	138.4	99.0	159.0



7.5.1

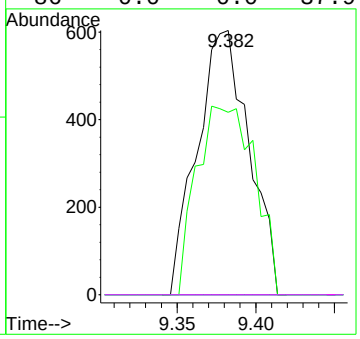
7

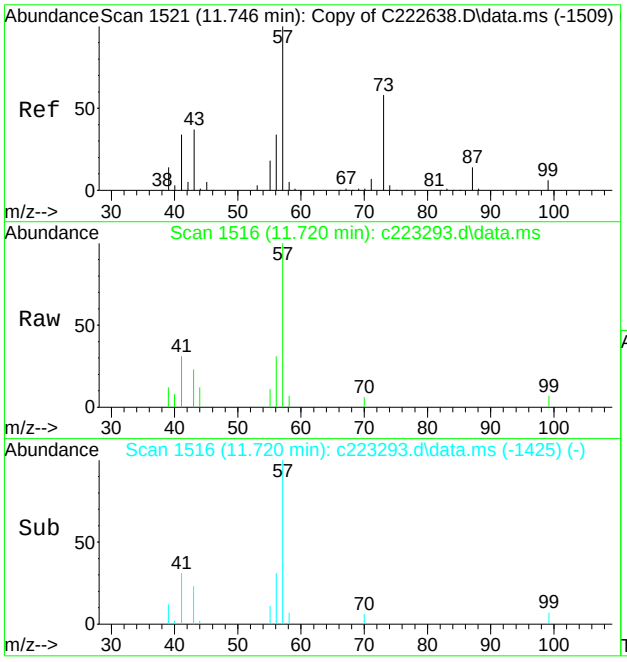


#27
hexane
Concen: 0.24 ug/L
RT: 9.382 min Scan# 1069
Delta R.T. -0.026 min
Lab File: c223293.d
Acq: 25 Oct 2018 1:23 pm

Tgt Ion: 57 Resp: 1385

Ion	Ratio	Lower	Upper
57	100		
43	69.0	39.8	79.8
71	0.0	0.0	26.0
86	0.0	0.0	37.9

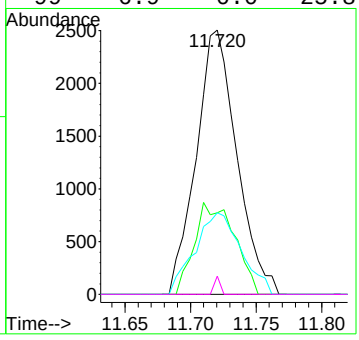




#55
2,2,4-trimethylpentane
Concen: 0.34 ug/L
RT: 11.720 min Scan# 1516
Delta R.T. -0.026 min
Lab File: c223293.d
Acq: 25 Oct 2018 1:23 pm

Tgt Ion: 57 Resp: 5402

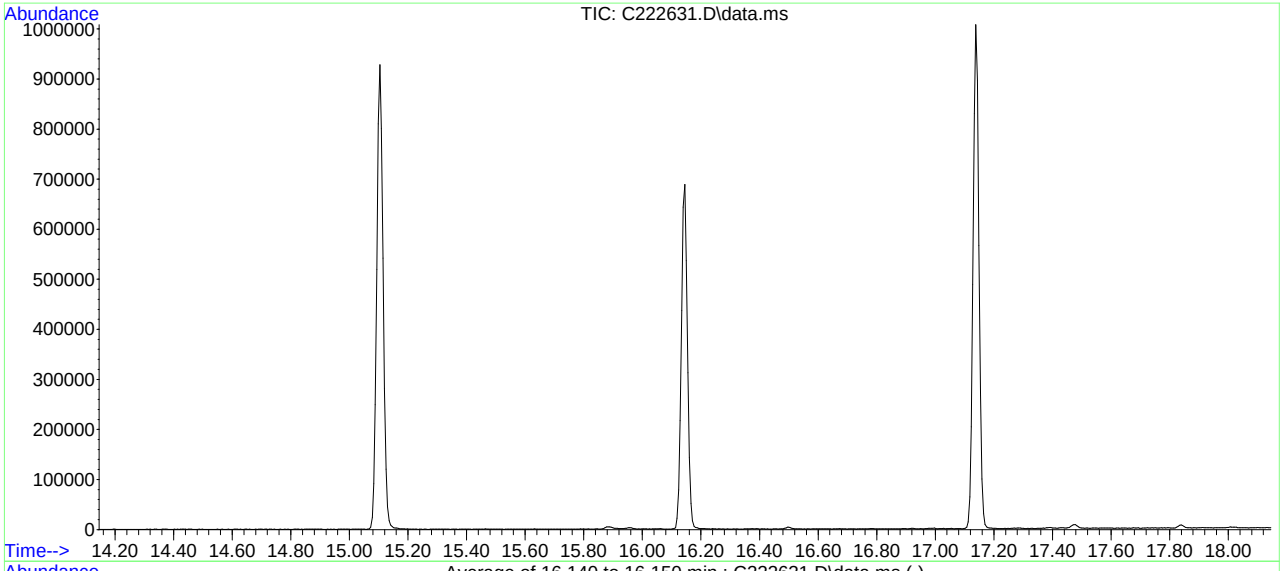
Ion	Ratio	Lower	Upper
57	100		
56	30.8	14.4	54.4
41	30.8	13.7	53.7
99	6.9	0.0	25.8

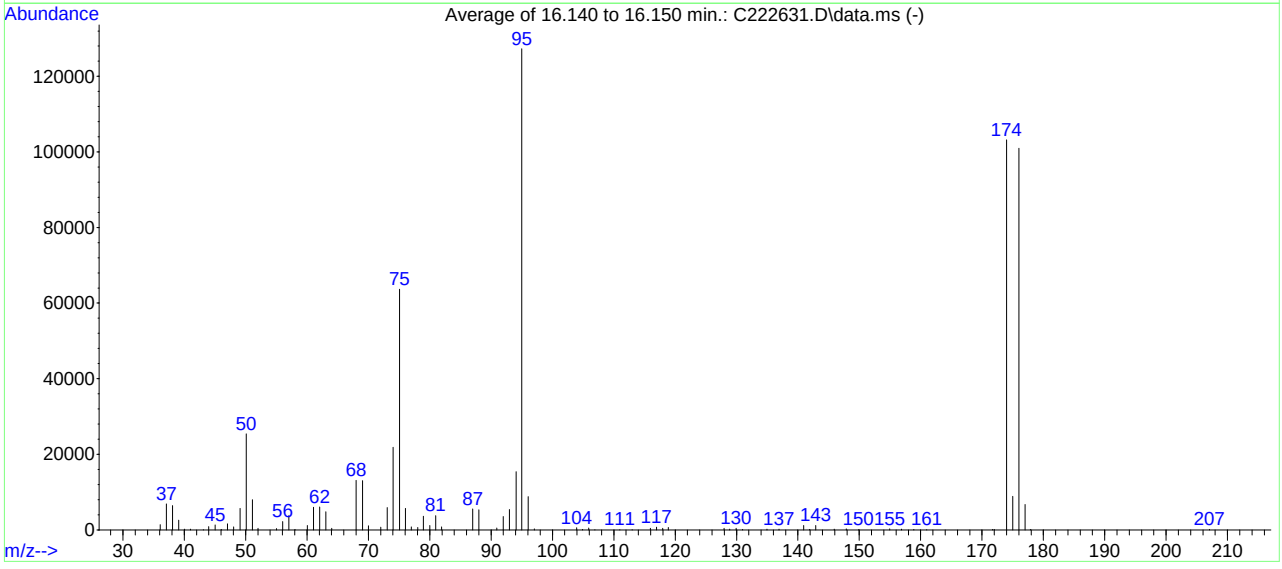


SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VC8261\C222631.D Vial: 1
Acq On : 11 Aug 2018 12:30 pm Operator: prashanS
Sample : BFB Inst : MSC
Misc : MS28184,VC8261,5.0,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MC8261.M (RTE Integrator)
Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um





AutoFind: Scans 2361, 2362, 2363; Background Corrected with Scan 2352

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	25410	PASS
75	95	30	60	50.0	63698	PASS
95	95	100	100	100.0	127272	PASS
96	95	5	9	6.9	8779	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	81.1	103213	PASS
175	174	5	9	8.6	8835	PASS
176	174	95	101	97.8	100976	PASS
177	176	5	9	6.6	6690	PASS

C222631.D MC8261.M Mon Aug 13 13:32:25 2018 C

Average of 16.140 to 16.150 min.: C222631.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1380	48.05	785	62.05	6062	77.00	788
37.10	6900	49.10	5693	63.05	4764	78.05	615
38.10	6397	50.10	25410	64.05	432	78.95	3629
39.10	2544	51.10	7974	68.00	13077	80.00	1120
40.05	164	52.00	386	69.05	13053	80.95	3715
41.00	169	55.05	374	70.00	1113	81.95	790
43.10	54	56.05	2203	72.00	738	87.00	5519
44.00	876	57.05	3739	73.05	5882	88.00	5289
45.05	1294	58.05	129	74.05	21821	90.95	453
46.05	113	60.05	1133	75.10	63698	92.00	3489
47.05	1626	61.05	5961	76.05	5656	93.00	5396

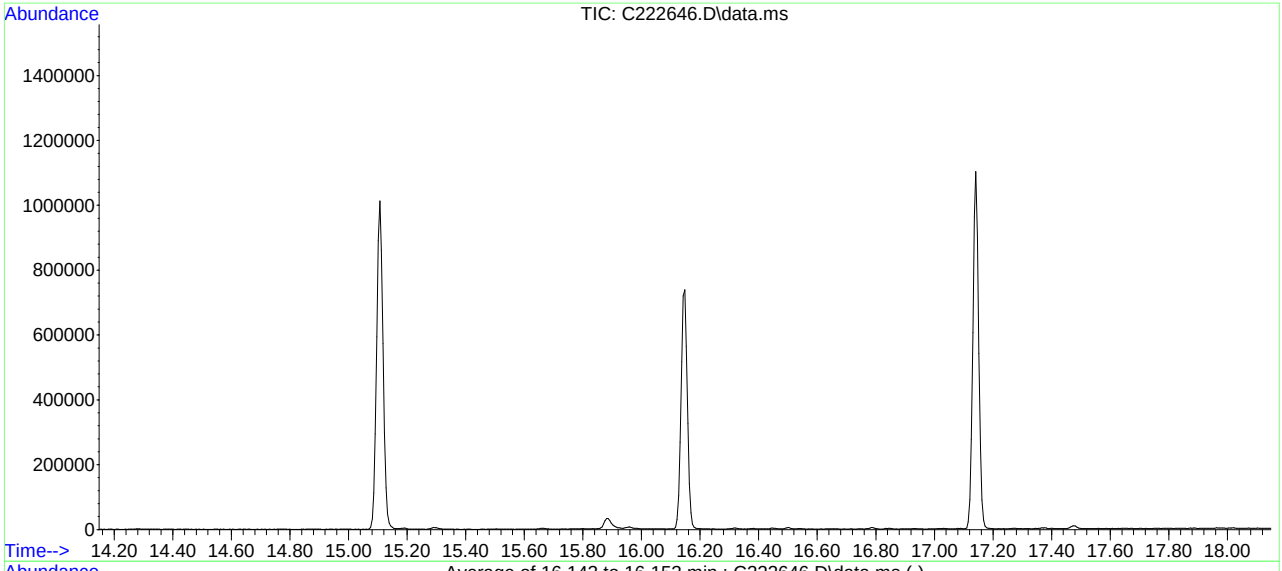
Average of 16.140 to 16.150 min.: C222631.D\data.ms
BFB
Modified:subtracted

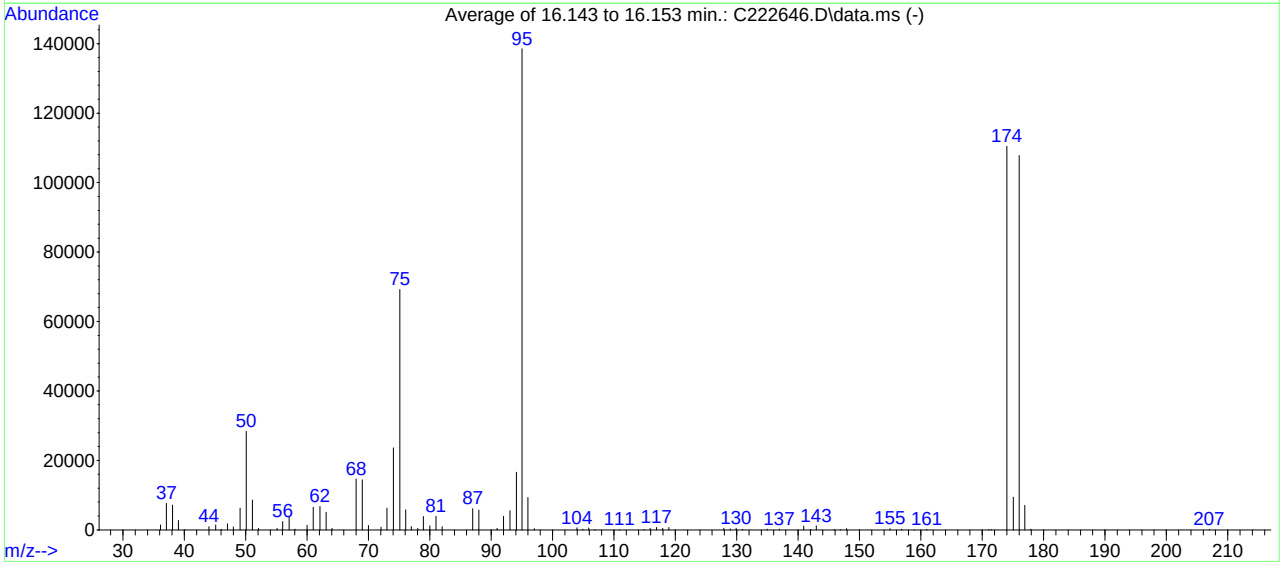
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.10	15380	116.95	702	142.90	1122	175.00	8835
95.00	127272	117.95	422	145.90	176	176.00	100976
96.05	8779	118.90	613	147.90	268	177.00	6690
97.05	298	127.95	427	149.90	55	177.90	128
103.95	557	128.90	210	154.95	299	207.05	89
104.90	117	129.95	439	156.90	203		
105.90	498	131.00	129	158.90	130		
106.90	50	134.95	215	161.00	54		
111.00	60	136.90	199	171.70	85		
113.00	51	140.95	1120	172.00	95		
115.95	422	141.90	110	174.00	103213		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VC8261\C222646.D Vial: 16
Acq On : 13 Aug 2018 2:15 pm Operator: prashanS
Sample : BFB2 Inst : MSC
Misc : MS28184,VC8261,5.0,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MC8261.M (RTE Integrator)
Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um





AutoFind: Scans 2362, 2363, 2364; Background Corrected with Scan 2353

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	28381	PASS
75	95	30	60	50.0	69221	PASS
95	95	100	100	100.0	138501	PASS
96	95	5	9	6.8	9355	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	79.8	110466	PASS
175	174	5	9	8.5	9398	PASS
176	174	95	101	97.6	107773	PASS
177	176	5	9	6.5	7035	PASS

C222646.D MC8261.M Mon Aug 13 15:28:30 2018 C

Average of 16.143 to 16.153 min.: C222646.D\data.ms
BFB2
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1419	50.10	28381	64.05	436	78.95	3834
37.10	7651	51.10	8581	68.00	14616	80.00	1203
38.10	7157	52.10	444	69.00	14371	81.00	3930
39.05	2707	55.10	438	70.00	1239	82.00	958
40.10	14	56.05	2397	72.05	786	87.00	6061
44.00	908	57.10	3809	73.00	6278	88.00	5661
45.10	1382	58.05	203	74.05	23589	90.95	464
46.05	134	60.00	1342	75.10	69221	92.00	3900
47.05	1769	61.00	6493	76.05	5766	93.05	5550
48.00	859	62.10	6783	77.00	901	94.10	16623
49.10	6258	63.10	5058	78.05	448	95.00	138501

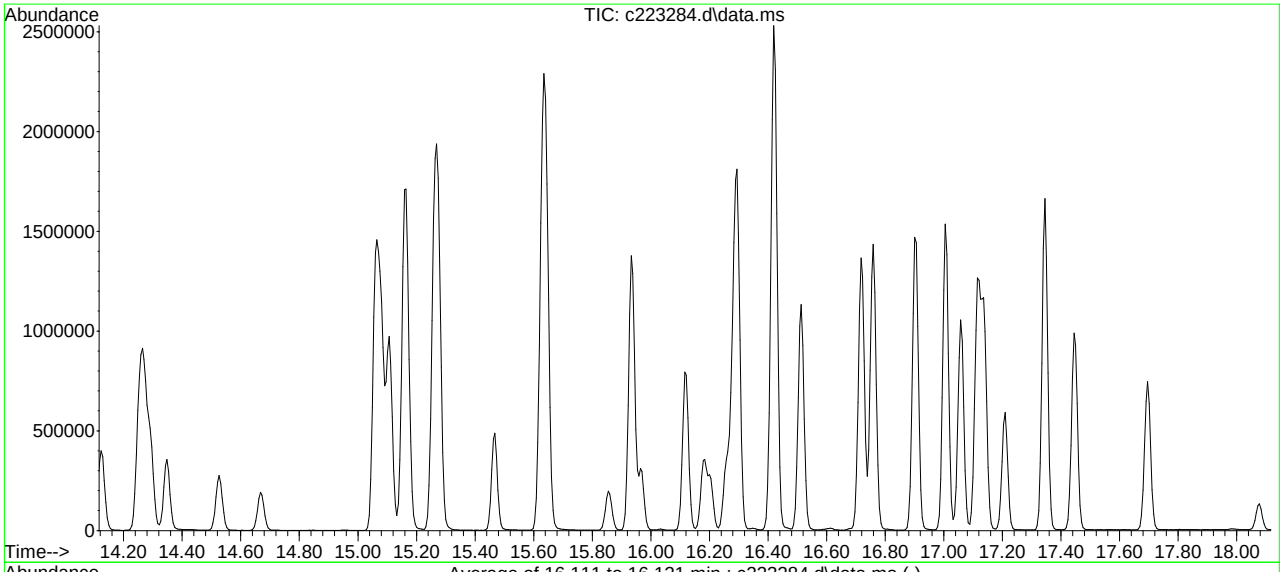
Average of 16.143 to 16.153 min.: C222646.D\data.ms
BFB2
Modified:subtracted

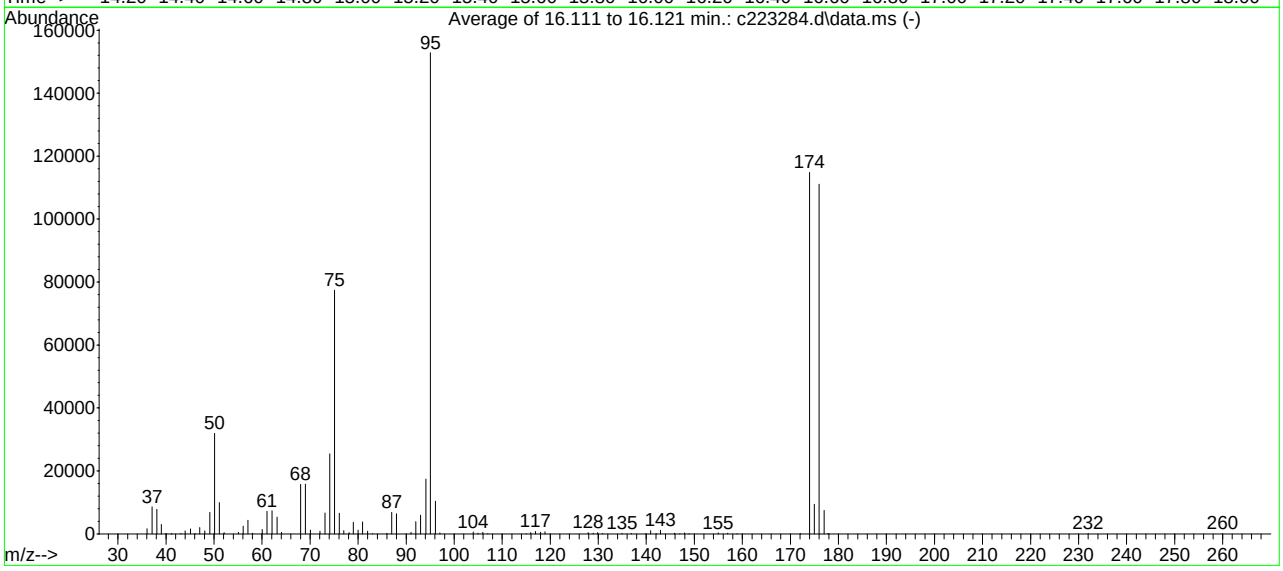
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	9355	118.95	672	146.90	53	176.95	7035
97.05	328	127.90	483	147.90	328	177.95	220
103.95	579	128.95	258	154.95	353	207.00	137
104.95	213	129.90	484	156.90	230		
105.90	558	130.95	140	159.00	53		
106.90	127	134.95	247	160.95	123		
110.90	52	136.95	247	171.10	121		
114.95	127	140.90	1104	171.50	76		
115.90	468	142.05	135	174.00	110466		
116.95	718	142.95	1188	175.05	9398		
117.95	486	145.90	136	176.00	107773		

SW-846 Method 8260

Data File : C:\msdchem\1\data\ja...7-18\vc8293\c223284.d Vial: 1
Acq On : 25 Oct 2018 8:35 am Operator: prashanS
Sample : BFB Inst : MSC
Misc : MS30272,VC8293,5.0,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MC8261.M (RTE Integrator)
Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um





AutoFind: Scans 2356, 2357, 2358; Background Corrected with Scan 2348

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	31973	PASS
75	95	30	60	50.6	77397	PASS
95	95	100	100	100.0	152821	PASS
96	95	5	9	6.8	10410	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	75.1	114840	PASS
175	174	5	9	8.2	9411	PASS
176	174	95	101	96.7	111067	PASS
177	176	5	9	6.7	7456	PASS

c223284.d MC8261.M Fri Oct 26 10:31:55 2018

Average of 16.111 to 16.121 min.: c223284.d\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1642	48.05	981	62.10	7380	77.00	995
37.10	8603	49.10	6822	63.10	5314	78.10	435
38.10	7783	50.10	31973	64.05	482	79.00	3658
39.05	2996	51.10	9919	68.00	15706	80.00	1241
40.00	113	52.10	436	69.00	15816	80.95	3822
41.05	4	55.05	448	70.05	1201	81.95	836
43.10	128	56.05	2440	72.05	829	83.00	53
44.00	904	57.05	4282	73.10	6667	86.00	104
45.10	1578	58.05	213	74.10	25451	87.00	6792
46.10	50	60.05	1376	75.10	77397	88.00	6381
47.05	2008	61.00	7181	76.10	6563	91.00	520

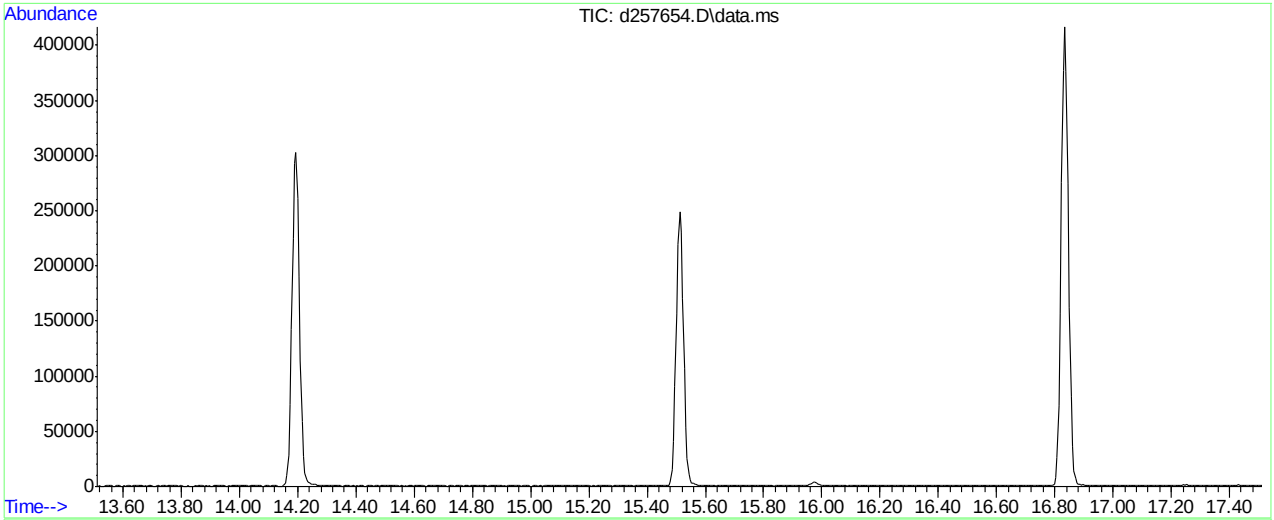
Average of 16.111 to 16.121 min.: c223284.d\data.ms
BFB
Modified:subtracted

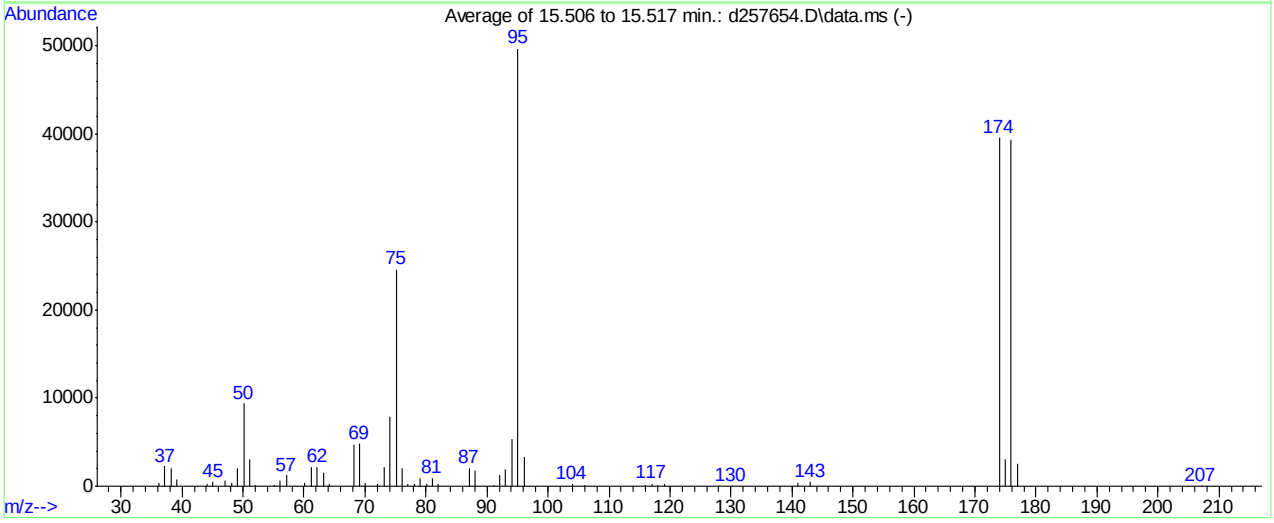
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	3852	115.95	443	140.90	1006	174.00	114840
93.00	5972	116.95	752	142.10	77	175.00	9411
94.10	17392	117.95	488	142.95	1152	176.00	111067
95.05	152821	118.90	673	145.85	194	177.00	7456
96.10	10410	127.90	428	147.00	51	177.80	51
97.00	345	128.95	214	147.95	344	178.00	154
103.95	590	129.90	426	148.90	56	232.00	63
104.95	207	130.95	177	154.95	307	260.00	82
105.95	506	134.95	134	156.95	251		
107.00	56	136.90	170	158.90	61		
115.00	81	139.90	53	172.05	166		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\d257654.D Vial: 1
Acq On : 6 Jun 2018 5:20 pm Operator: thienn
Sample : BFB Inst : MSD
Misc : ms26799,vd10401,5.0,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MD10401.M (RTE Integrator)
Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um





AutoFind: Scans 2165, 2166, 2167; Background Corrected with Scan 2156

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	9407	PASS
75	95	30	60	49.4	24560	PASS
95	95	100	100	100.0	49685	PASS
96	95	5	9	6.6	3258	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	79.6	39549	PASS
175	174	5	9	7.8	3088	PASS
176	174	95	101	99.5	39338	PASS
177	176	5	9	6.6	2595	PASS

d257654.D MD10401.M Thu Jun 07 08:53:14 2018 RPT1

Average of 15.506 to 15.517 min.: d257654.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.15	392	52.05	112	70.05	358	82.00	203
37.15	2289	55.10	135	72.10	280	87.05	2087
38.15	2077	56.10	692	73.10	2112	88.05	1841
39.15	788	57.10	1226	74.15	7930	91.10	178
44.10	254	60.15	384	75.15	24560	92.10	1225
45.10	472	61.15	2136	76.15	2010	93.05	1860
47.10	651	62.15	2226	77.05	308	94.10	5369
48.10	354	63.15	1582	78.10	212	95.10	49685
49.15	2072	64.10	235	79.00	944	96.10	3258
50.15	9407	68.10	4662	80.05	292	104.00	209
51.15	3008	69.10	4780	81.00	926	106.00	119

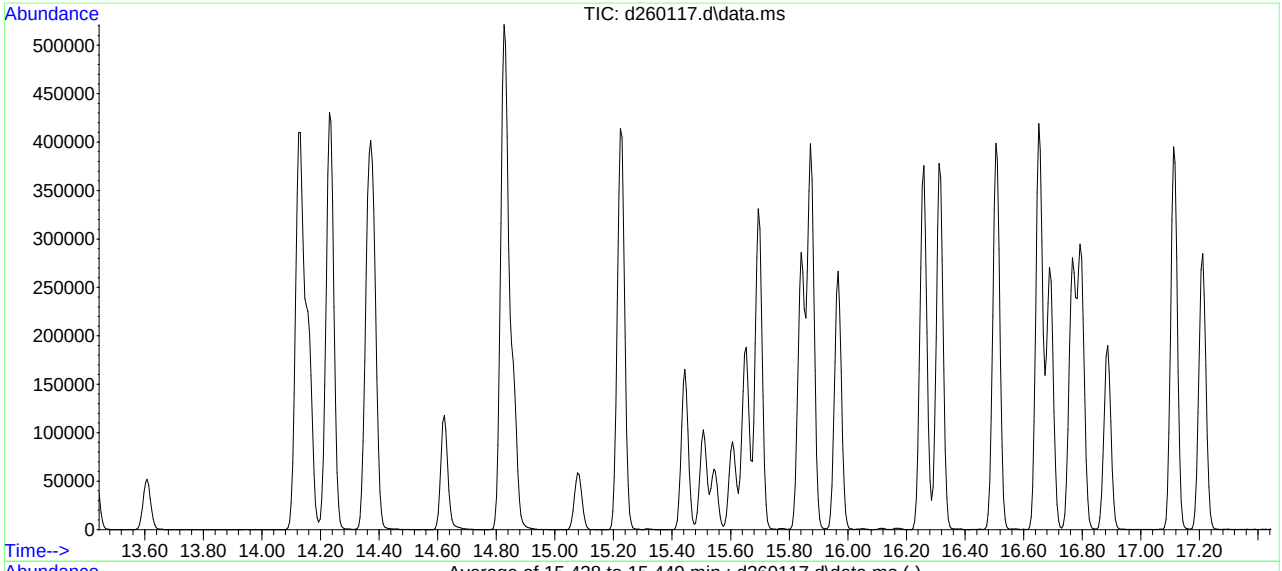
Average of 15.506 to 15.517 min.: d257654.D\data.ms
BFB
Modified:subtracted

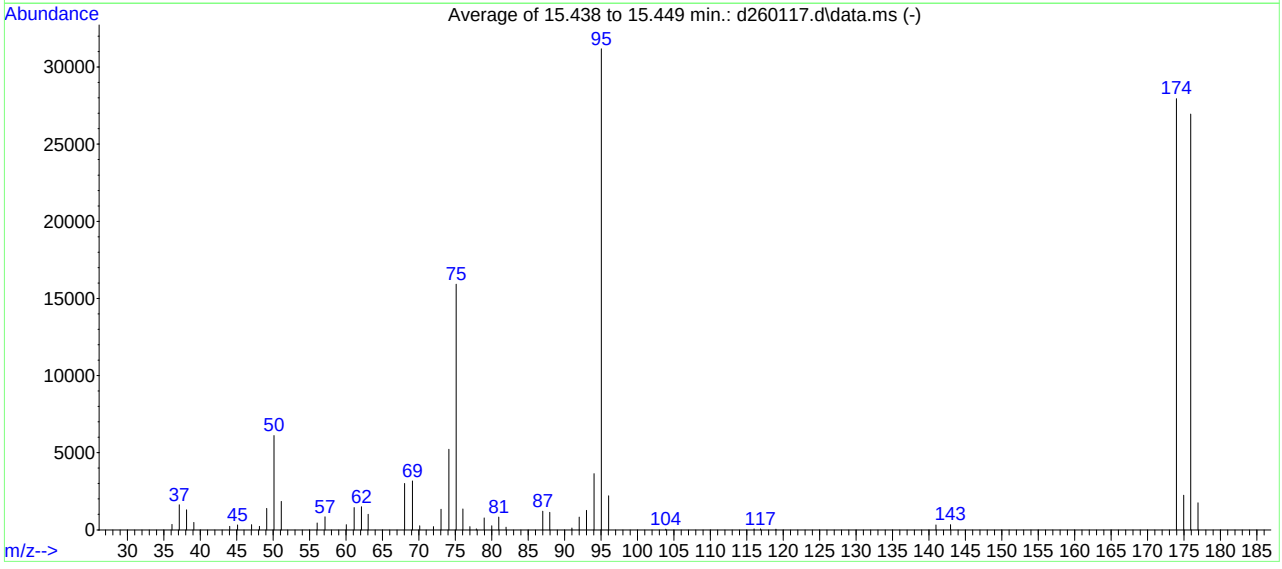
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.00	121	176.95	2595				
117.00	289	207.05	32				
118.00	104						
119.00	232						
127.95	57						
130.05	66						
140.95	404						
143.00	503						
173.95	39549						
175.00	3088						
175.95	39338						

SW-846 Method 8260

Data File : C:\msdchem\1\data\ma...-18\vd10499\d260117.d Vial: 3
Acq On : 24 Oct 2018 8:00 am Operator: thienn
Sample : bfb Inst : MSD
Misc : ms27208,vd10499,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MD10401.M (RTE Integrator)
Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um





AutoFind: Scans 2151, 2152, 2153; Background Corrected with Scan 2142

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	6116	PASS
75	95	30	60	51.1	15929	PASS
95	95	100	100	100.0	31179	PASS
96	95	5	9	7.1	2206	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	89.6	27949	PASS
175	174	5	9	8.0	2239	PASS
176	174	95	101	96.4	26955	PASS
177	176	5	9	6.5	1755	PASS

d260117.d MD10401.M Wed Oct 24 20:13:13 2018

Average of 15.438 to 15.449 min.: d260117.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	361	56.05	441	74.10	5232	91.00	113
37.10	1629	57.10	847	75.10	15929	92.00	827
38.10	1301	60.05	331	76.05	1345	93.00	1269
39.10	490	61.10	1436	77.00	203	94.05	3636
44.05	222	62.10	1494	77.90	62	95.05	31179
45.10	320	63.05	1014	78.95	778	96.05	2206
47.05	337	68.05	3002	80.00	273	103.90	52
48.10	221	69.10	3167	80.95	825	116.00	60
49.10	1391	70.10	270	81.95	181	116.90	71
50.10	6116	72.00	212	87.00	1205	119.00	54
51.10	1845	73.05	1341	87.95	1136	140.95	327

Average of 15.438 to 15.449 min.: d260117.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.95	344						
173.95	27949						
174.95	2239						
175.90	26955						
176.90	1755						

7.6.5

7

Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
08/14/18 16:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222632.D
Acq On : 11 Aug 2018 1:23 pm
Operator : prashanS
Sample : IC8261-0.5
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 25 17:43:55 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.406	65	104085	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	323407	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.088	114	498090	50.00	ug/L	0.00
74) chlorobenzene-d5	15.106	117	449481	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.140	152	220535	50.00	ug/L	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	11.147	113	131213	49.20	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 98.40%			
53) 1,2-dichloroethane-d4 (s)	11.591	65	136992	50.12	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 100.24%			
75) toluene-d8 (s)	13.683	98	606653	49.50	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.00%			
98) 4-bromofluorobenzene (s)	16.147	174	165449	51.47	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 102.94%			

Target Compounds

						Qvalue
6) chlorodifluoromethane	4.384	51	1667	0.55	ug/L	63
7) dichlorodifluoromethane	4.337	85	2343	0.53	ug/L	89
9) vinyl chloride	5.027	62	2473	0.53	ug/L	93
10) bromomethane	5.786	94	1437	0.49	ug/L	83
11) chloroethane	6.006	64	1373	0.51	ug/L #	59
12) vinyl bromide	6.393	106	1645	0.49	ug/L	80
13) trichlorofluoromethane	6.534	101	2584	0.54	ug/L	89
14) ethyl ether	7.057	74	810	0.53	ug/L #	70
15) 2-chloropropane	7.308	43	2958	0.55	ug/L	94
17) freon 113	7.585	151	827	0.41	ug/L #	71
18) 1,1-dichloroethene	7.554	61	2412	0.53	ug/L	98
21) iodomethane	7.867	142	1624	0.49	ug/L	87
22) carbon disulfide	8.030	76	4040	0.52	ug/L	87
25) methyl tert butyl ether	8.924	73	3513	0.50	ug/L	95
26) trans-1,2-dichloroethene	8.966	61	2225	0.52	ug/L	87
28) di-isopropyl ether	9.677	45	4886	0.52	ug/L	93
29) ethyl tert-butyl ether	10.211	59	4754	0.54	ug/L	96
30) 1,1-dichloroethane	9.688	63	2877	0.53	ug/L	97
31) chloroprene	9.792	53	2064	0.48	ug/L	91
36) 2,2-dichloropropane	10.535	77	2442	0.55	ug/L	76
37) cis-1,2-dichloroethene	10.503	96	1517	0.47	ug/L #	79
40) bromochloromethane	10.838	128	496	0.40	ug/L	90
42) chloroform	10.943	83	2669	0.53	ug/L	91
46) cyclohexane	11.319	84	2345	0.48	ug/L	97
47) 1,1,1-trichloroethane	11.204	97	2422	0.54	ug/L	93
48) 1,1-dichloropropene	11.393	75	2153	0.53	ug/L	91
49) carbon tetrachloride	11.408	117	1846	0.49	ug/L	95
55) 2,2,4-trimethylpentane	11.743	57	6925	0.52	ug/L	93
56) tert-amyl methyl ether	11.738	73	4019	0.49	ug/L	97
57) benzene	11.644	78	6229	0.52	ug/L	98
58) heptane	11.921	57	1509	0.55	ug/L	98
59) 1,2-dichloroethane	11.685	62	2029	0.58	ug/L	78
62) trichloroethene	12.392	95	1532	0.52	ug/L	89
65) methylcyclohexane	12.679	83	2972	0.51	ug/L	94
67) 1,2-dichloropropane	12.690	63	1569	0.52	ug/L	84
68) dibromomethane	12.794	93	694	0.49	ug/L	89
69) bromodichloromethane	12.951	83	1690	0.48	ug/L	96
71) cis-1,3-dichloropropene	13.396	75	2180	0.50	ug/L	96
76) toluene	13.757	92	4096	0.53	ug/L	96
78) trans-1,3-dichloropropene	13.950	75	2075	0.53	ug/L	96
79) 1,1,2-trichloroethane	14.154	83	817	0.46	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222632.D
Acq On : 11 Aug 2018 1:23 pm
Operator : prashanS
Sample : IC8261-0.5
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 25 17:43:55 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

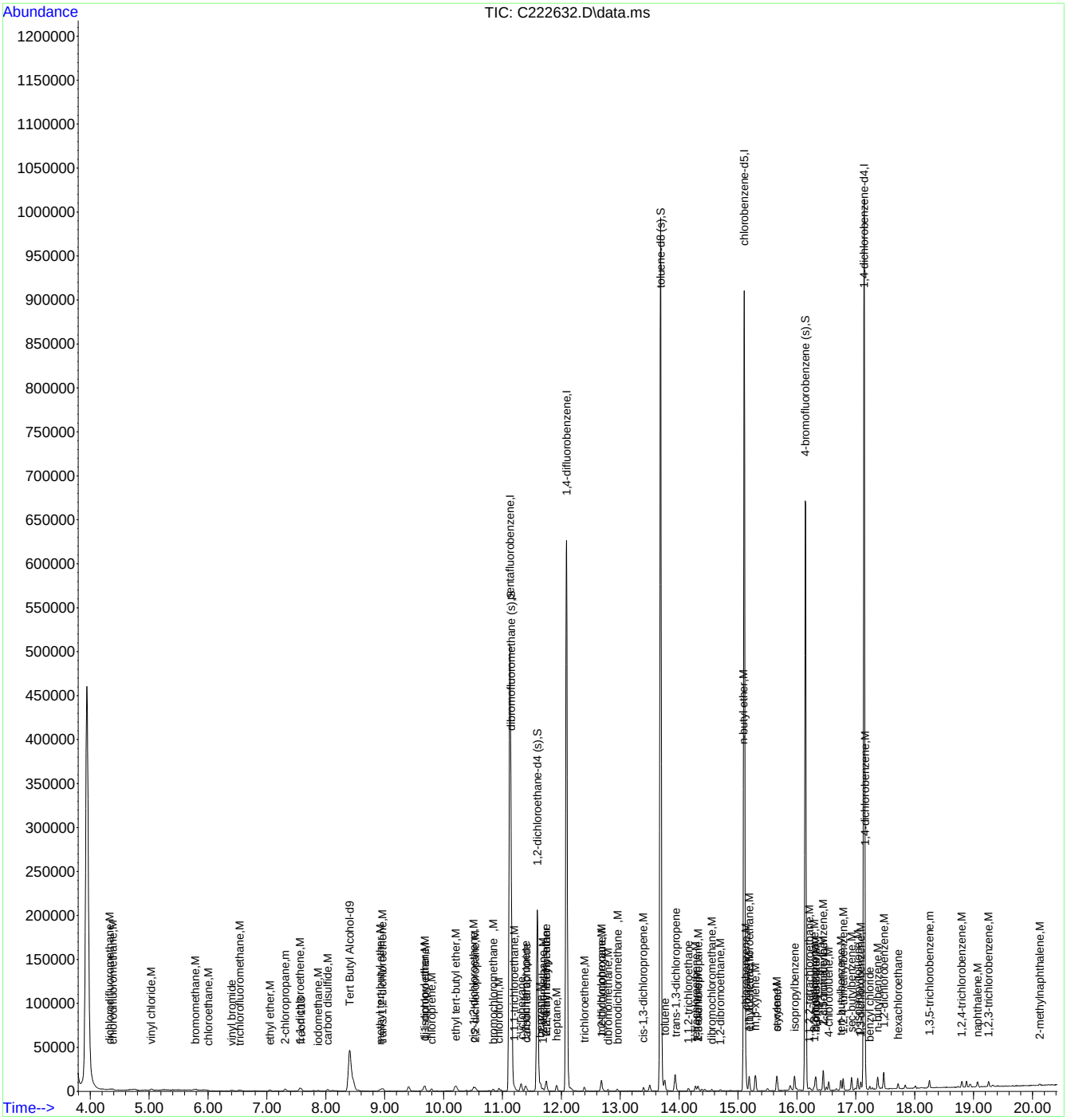
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) 2-hexanone	14.311	58	1286	1.77 ug/L	82
81) tetrachloroethene	14.285	166	1604	0.53 ug/L	83
82) 1,3-dichloropropane	14.321	76	1838	0.49 ug/L	95
84) dibromochloromethane	14.557	129	1037	0.46 ug/L	96
85) 1,2-dibromoethane	14.703	107	1088	0.52 ug/L	93
86) n-butyl ether	15.085	57	7145	0.51 ug/L	84
87) chlorobenzene	15.137	112	4413	0.54 ug/L	88
88) 1,1,1,2-tetrachloroethane	15.195	131	1284	0.47 ug/L	86
89) ethylbenzene	15.190	91	7779	0.52 ug/L	94
90) m,p-xylene	15.294	106	5841	1.02 ug/L	98
91) o-xylene	15.655	91	5964	0.51 ug/L	98
92) styrene	15.666	104	4009	0.46 ug/L	92
95) isopropylbenzene	15.964	105	7549	0.51 ug/L	95
99) bromobenzene	16.309	156	1652	0.52 ug/L	87
100) 1,1,2,2-tetrachloroethane	16.210	83	1322	0.51 ug/L	87
102) 1,2,3-trichloropropane	16.288	110	349	0.49 ug/L #	55
103) n-propylbenzene	16.319	91	9238	0.53 ug/L	97
104) 2-chlorotoluene	16.445	126	1687	0.50 ug/L	87
105) 4-chlorotoluene	16.539	91	5487	0.55 ug/L	98
106) 1,3,5-trimethylbenzene	16.450	105	6443	0.53 ug/L	94
107) tert-butylbenzene	16.743	134	1314	0.50 ug/L	88
108) 1,2,4-trimethylbenzene	16.785	105	6514	0.54 ug/L	99
109) sec-butylbenzene	16.931	105	8342	0.52 ug/L	97
110) 1,3-dichlorobenzene	17.083	146	3613	0.56 ug/L	91
111) p-isopropyltoluene	17.031	119	7030	0.53 ug/L	98
112) 1,4-dichlorobenzene	17.161	146	3574	0.55 ug/L	91
113) benzyl chloride	17.235	91	2454	0.49 ug/L	96
114) 1,2-dichlorobenzene	17.475	146	3065	0.52 ug/L	92
115) n-butylbenzene	17.371	92	3709	0.52 ug/L	97
116) hexachloroethane	17.721	201	735	0.43 ug/L #	81
118) 1,3,5-trichlorobenzene	18.249	180	2829	0.55 ug/L	97
121) 1,2,4-trichlorobenzene	18.793	180	2318	0.53 ug/L	88
123) naphthalene	19.070	128	4787	0.55 ug/L	96
124) 1,2,3-trichlorobenzene	19.253	180	2129	0.54 ug/L	90
125) 2-methylnaphthalene	20.116	142	1111	0.22 ug/L	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222632.D
Acq On : 11 Aug 2018 1:23 pm
Operator : prashanS
Sample : IC8261-0.5
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 25 17:43:55 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	VC8261-IC8261	**Method:**	SW846 8260C
Lab FileID:	C222632.D	**Analyst approved:**	08/13/18 13:37 Dong, Mei
Injection Time:	08/11/18 13:23	**Supervisor approved:**	08/14/18 16:56 MoHui Huang

Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Chloroethyl vinyl ether	110-75-8		12.69	Missed peak

Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
08/14/18 16:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222633.D
Acq On : 11 Aug 2018 1:52 pm
Operator : prashanS
Sample : IC8261-1
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 25 16:34:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.407	65	101656	500.00	ug/L	0.00
5) pentafluorobenzene	11.122	168	322885	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.084	114	494507	50.00	ug/L	0.00
74) chlorobenzene-d5	15.102	117	434117	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.141	152	213712	50.00	ug/L	0.00

System Monitoring Compounds						
44) dibromofluoromethane (s)	11.148	113	130947	49.18	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 98.36%			
53) 1,2-dichloroethane-d4 (s)	11.592	65	136138	50.17	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 100.34%			
75) toluene-d8 (s)	13.684	98	593141	50.11	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.22%			
98) 4-bromofluorobenzene (s)	16.143	174	158006	50.73	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 101.46%			

Target Compounds						Qvalue
2) ethanol	6.775	45	2390	101.92	ug/L	96
3) tertiary butyl alcohol	8.548	59	1200	4.61	ug/L	58
4) 1,4-dioxane	12.732	88	446	21.67	ug/L	98
6) chlorodifluoromethane	4.375	51	3293	1.09	ug/L	97
7) dichlorodifluoromethane	4.338	85	4366	0.99	ug/L	92
8) chloromethane	4.762	50	5466	1.13	ug/L	95
9) vinyl chloride	5.034	62	4801	1.04	ug/L	91
10) bromomethane	5.776	94	3120	1.07	ug/L	83
11) chloroethane	5.996	64	2907	1.08	ug/L	93
12) vinyl bromide	6.409	106	3526	1.06	ug/L	88
13) trichlorofluoromethane	6.535	101	5186	1.09	ug/L	88
14) ethyl ether	7.047	74	1427	0.93	ug/L	88
15) 2-chloropropane	7.314	43	5431	1.01	ug/L	96
17) freon 113	7.581	151	2009	0.99	ug/L	89
18) 1,1-dichloroethene	7.555	61	4728	1.04	ug/L	89
21) iodomethane	7.868	142	3201	0.96	ug/L	98
22) carbon disulfide	8.031	76	7857	1.01	ug/L	98
25) methyl tert butyl ether	8.925	73	6835	0.97	ug/L	99
26) trans-1,2-dichloroethene	8.967	61	4241	1.00	ug/L	85
27) hexane	9.406	57	5708	1.18	ug/L	86
28) di-isopropyl ether	9.673	45	8994	0.95	ug/L	91
29) ethyl tert-butyl ether	10.212	59	8683	0.98	ug/L	96
30) 1,1-dichloroethane	9.683	63	5354	1.00	ug/L	96
31) chloroprene	9.788	53	4079	0.94	ug/L	94
36) 2,2-dichloropropane	10.536	77	4404	0.99	ug/L	88
37) cis-1,2-dichloroethene	10.510	96	3359	1.04	ug/L	87
39) propionitrile	10.536	54	2522	9.62	ug/L	88
40) bromochloromethane	10.839	128	1172	0.94	ug/L	88
41) tetrahydrofuran	10.850	42	706	1.19	ug/L #	66
42) chloroform	10.944	83	4802	0.96	ug/L	99
43) t-butyl formate	10.975	59	1085	0.87	ug/L	86
46) cyclohexane	11.305	84	5032	1.04	ug/L #	62
47) 1,1,1-trichloroethane	11.205	97	4232	0.94	ug/L	93
48) 1,1-dichloropropene	11.388	75	3967	0.97	ug/L	99
49) carbon tetrachloride	11.404	117	3654	0.98	ug/L	96
50) tert-amyl alcohol	11.545	73	644	5.28	ug/L #	69
55) 2,2,4-trimethylpentane	11.744	57	13168	1.00	ug/L	96
56) tert-amyl methyl ether	11.734	73	8045	0.99	ug/L	96
57) benzene	11.645	78	11756	0.98	ug/L	99
58) heptane	11.917	57	2650	0.98	ug/L	93
59) 1,2-dichloroethane	11.686	62	3565	1.02	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222633.D
Acq On : 11 Aug 2018 1:52 pm
Operator : prashanS
Sample : IC8261-1
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 25 16:34:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

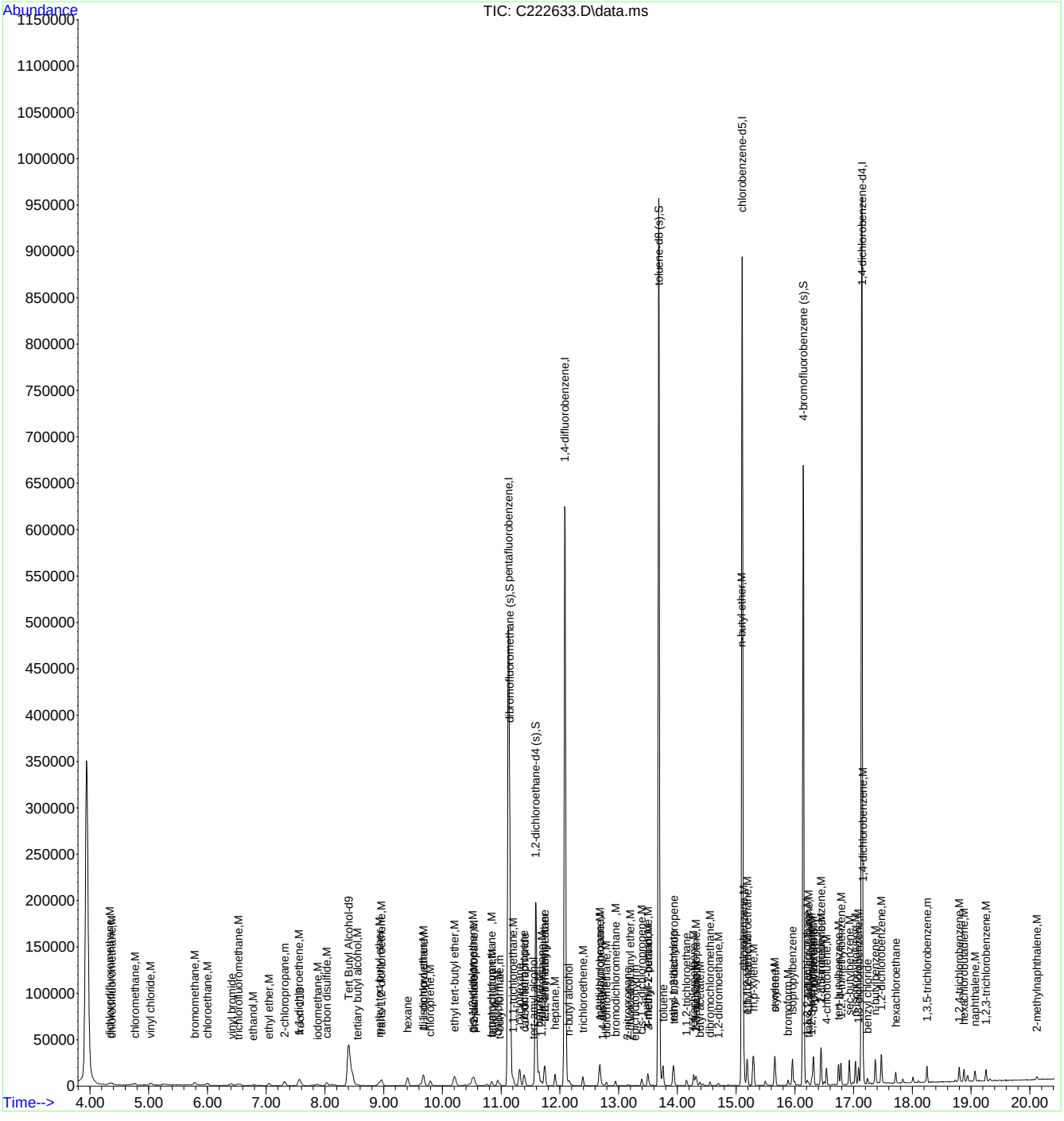
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
60) n-butyl alcohol	12.157	56	2584	43.62 ug/L	87
62) trichloroethene	12.393	95	2932	1.01 ug/L	91
63) 2-chloroethyl vinyl ether	13.188	63	351m	0.58 ug/L	
64) 2-nitropropane	13.151	41	584	1.13 ug/L	92
65) methylcyclohexane	12.680	83	5647	0.98 ug/L	96
67) 1,2-dichloropropane	12.685	63	2940	0.98 ug/L	90
68) dibromomethane	12.795	93	1381	0.99 ug/L	88
69) bromodichloromethane	12.947	83	3218	0.92 ug/L	94
70) epichlorohydrin	13.271	57	753	4.37 ug/L #	56
71) cis-1,3-dichloropropene	13.391	75	4263	0.98 ug/L	90
72) 4-methyl-2-pentanone	13.496	58	2584	3.48 ug/L	89
73) 3-methyl-1-butanol	13.507	55	1462	15.66 ug/L	96
76) toluene	13.758	92	7717	1.02 ug/L	98
77) ethyl methacrylate	13.935	69	2259	0.84 ug/L	98
78) trans-1,3-dichloropropene	13.946	75	3719	0.98 ug/L	98
79) 1,1,2-trichloroethane	14.155	83	1718	1.01 ug/L	95
80) 2-hexanone	14.307	58	2479	3.53 ug/L	93
81) tetrachloroethene	14.275	166	2854	0.98 ug/L	99
82) 1,3-dichloropropane	14.322	76	3552	0.98 ug/L	96
83) butyl acetate	14.385	56	1143	0.81 ug/L #	68
84) dibromochloromethane	14.558	129	2091	0.96 ug/L	91
85) 1,2-dibromoethane	14.699	107	1909	0.94 ug/L	94
86) n-butyl ether	15.086	57	13168	0.97 ug/L	87
87) chlorobenzene	15.133	112	7924	1.00 ug/L	95
88) 1,1,1,2-tetrachloroethane	15.196	131	2455	0.94 ug/L	97
89) ethylbenzene	15.185	91	14386	1.00 ug/L	99
90) m,p-xylene	15.295	106	10961	1.97 ug/L	91
91) o-xylene	15.656	91	11097	0.98 ug/L	93
92) styrene	15.667	104	7380	0.88 ug/L	93
94) bromoform	15.881	173	1114	0.92 ug/L	95
95) isopropylbenzene	15.959	105	13918	0.98 ug/L	99
99) bromobenzene	16.310	156	3197	1.04 ug/L	87
100) 1,1,2,2-tetrachloroethane	16.211	83	2552	1.02 ug/L	96
101) trans-1,4-dichloro-2-b...	16.237	53	672	0.99 ug/L	89
102) 1,2,3-trichloropropane	16.279	110	650	0.94 ug/L #	84
103) n-propylbenzene	16.320	91	17528	1.04 ug/L	96
104) 2-chlorotoluene	16.441	126	3377	1.03 ug/L	93
105) 4-chlorotoluene	16.540	91	9563	0.99 ug/L	98
106) 1,3,5-trimethylbenzene	16.446	105	11880	1.00 ug/L	93
107) tert-butylbenzene	16.744	134	2539	1.00 ug/L #	81
108) 1,2,4-trimethylbenzene	16.786	105	11895	1.01 ug/L	96
109) sec-butylbenzene	16.927	105	15703	1.02 ug/L	98
110) 1,3-dichlorobenzene	17.084	146	6466	1.03 ug/L	98
111) p-isopropyltoluene	17.032	119	12928	1.00 ug/L	99
112) 1,4-dichlorobenzene	17.162	146	6652	1.05 ug/L	96
113) benzyl chloride	17.236	91	4802	0.99 ug/L	88
114) 1,2-dichlorobenzene	17.471	146	5917	1.03 ug/L	95
115) n-butylbenzene	17.366	92	6951	1.01 ug/L	98
116) hexachloroethane	17.722	201	1613	0.97 ug/L	92
118) 1,3,5-trichlorobenzene	18.250	180	5344	1.08 ug/L	96
121) 1,2,4-trichlorobenzene	18.799	180	4657	1.11 ug/L	98
122) hexachlorobutadiene	18.878	225	2379	1.00 ug/L	97
123) naphthalene	19.066	128	8683	1.02 ug/L	98
124) 1,2,3-trichlorobenzene	19.260	180	4055	1.06 ug/L	88
125) 2-methylnaphthalene	20.117	142	2181	0.45 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222633.D
Acq On : 11 Aug 2018 1:52 pm
Operator : prashanS
Sample : IC8261-1
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 25 16:34:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration



Manual Integration Approval Summary

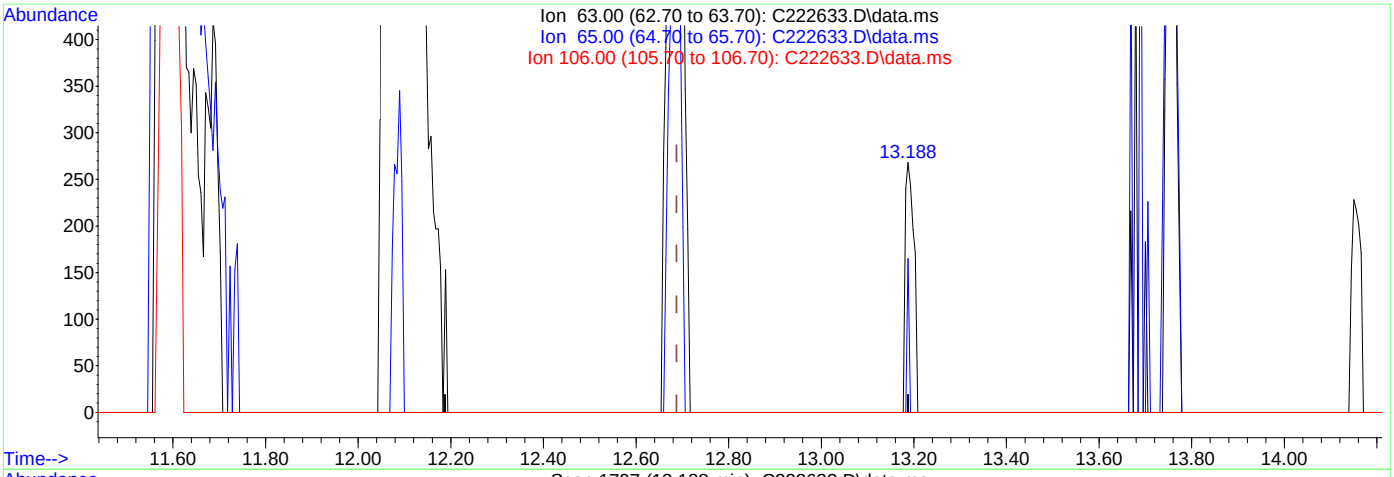
Sample Number:	VC8261-IC8261	**Method:**	SW846 8260C
Lab FileID:	C222633.D	**Analyst approved:**	08/13/18 13:48 Dong, Mei
Injection Time:	08/11/18 13:52	**Supervisor approved:**	08/14/18 16:56 MoHui Huang

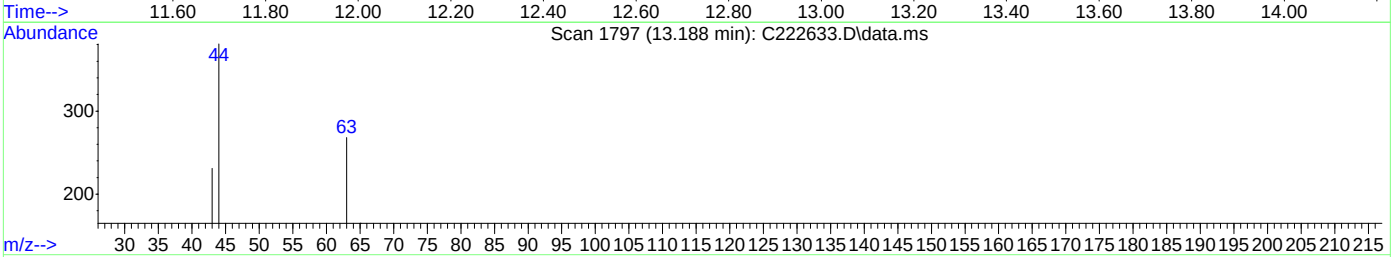
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Chloroethyl vinyl ether	110-75-8		12.69	Missed peak

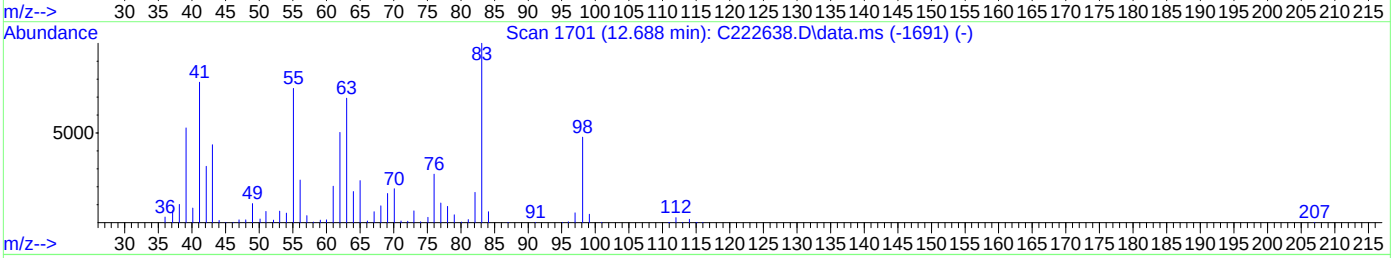
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222633.D
Acq On : 11 Aug 2018 1:52 pm
Operator : prashanS
Sample : IC8261-1
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 13 13:44:21 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: C222633.D\data.ms

(63) 2-chloroethyl vinyl ether (M)

13.188min (+0.500) 0.58ug/L m

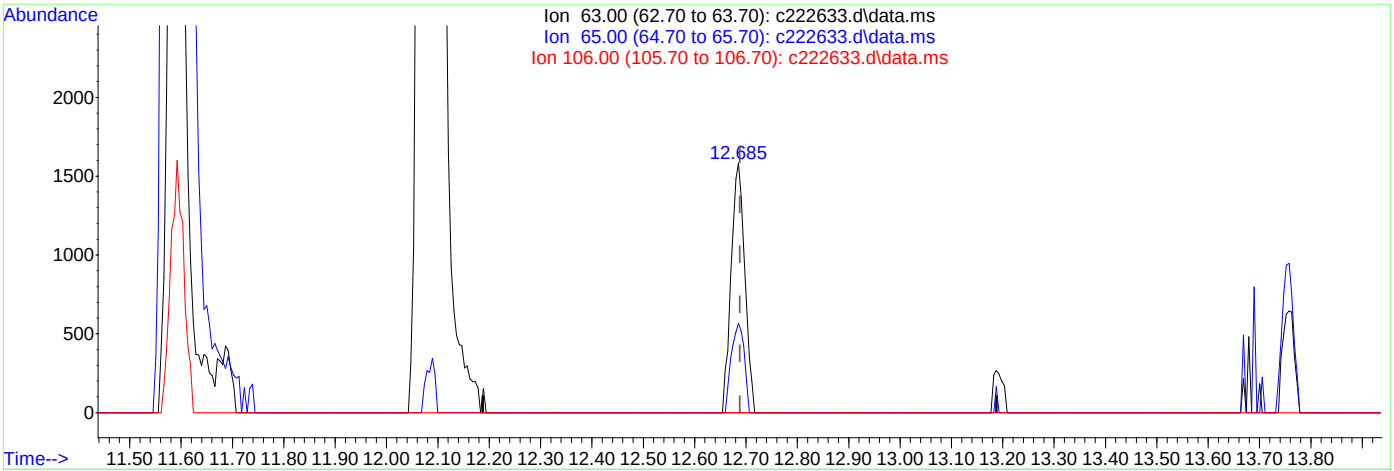
response 351

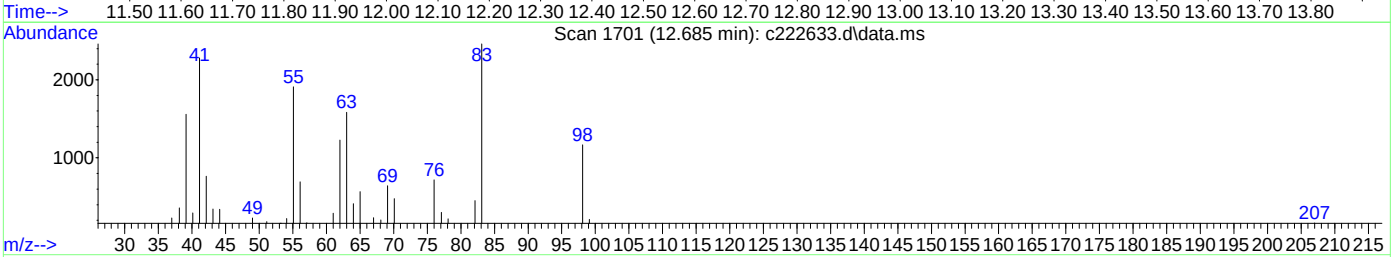
Ion	Exp%	Act%
63.00	100	100
65.00	33.80	61.57
106.00	0.00	0.00
0.00	0.00	0.00

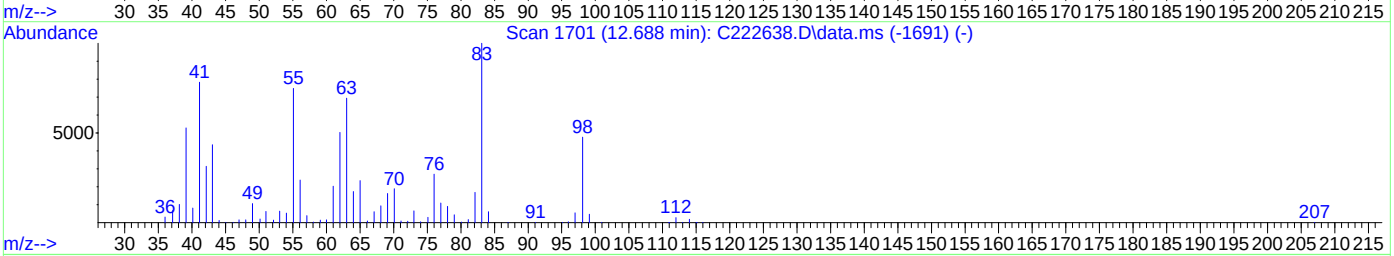
Quantitation Report (Qedit)

Data Path : S:\vc8261\
Data File : c222633.d
Acq On : 11 Aug 2018 1:52 pm
Operator : prashanS
Sample : IC8261-1
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 13 13:44:21 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: c222633.d\data.ms

(63) 2-chloroethyl vinyl ether (M)

12.685min (-0.002) 4.89ug/L

response 2940

Ion	Exp%	Act%
63.00	100	100
65.00	33.80	35.80
106.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
08/14/18 16:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222634.D
Acq On : 11 Aug 2018 2:22 pm
Operator : prashanS
Sample : IC8261-2
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 25 16:33:44 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.409	65	94096	500.00	ug/L	0.00
5) pentafluorobenzene	11.123	168	317100	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.085	114	476320	50.00	ug/L	0.00
74) chlorobenzene-d5	15.103	117	414072	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.138	152	208152	50.00	ug/L	0.00

System Monitoring Compounds						
44) dibromofluoromethane (s)	11.149	113	129323	49.45	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 98.90%			
53) 1,2-dichloroethane-d4 (s)	11.589	65	130379	49.88	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 99.76%			
75) toluene-d8 (s)	13.681	98	568236	50.33	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.66%			
98) 4-bromofluorobenzene (s)	16.144	174	151105	49.81	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 99.62%			

Target Compounds						Qvalue
2) ethanol	6.808	45	4639	213.73	ug/L	82
3) tertiary butyl alcohol	8.550	59	2430	10.09	ug/L	77
4) 1,4-dioxane	12.729	88	992	52.07	ug/L	85
6) chlorodifluoromethane	4.376	51	6295	2.11	ug/L	95
7) dichlorodifluoromethane	4.334	85	9201	2.13	ug/L	94
8) chloromethane	4.758	50	10282	2.16	ug/L	98
9) vinyl chloride	5.035	62	9769	2.15	ug/L	96
10) bromomethane	5.788	94	6109	2.13	ug/L	93
11) chloroethane	6.003	64	5316	2.02	ug/L	99
12) vinyl bromide	6.405	106	6826	2.09	ug/L	98
13) trichlorofluoromethane	6.557	101	10420	2.22	ug/L	93
14) ethyl ether	7.043	74	3241	2.15	ug/L	83
15) 2-chloropropane	7.310	43	11395	2.15	ug/L	90
16) acrolein	7.336	56	728	1.94	ug/L	87
17) freon 113	7.577	151	4269	2.14	ug/L	97
18) 1,1-dichloroethene	7.561	61	9343	2.10	ug/L	98
19) acetone	7.593	43	4721	9.33	ug/L	99
20) acetonitrile	8.116	41	5148	22.28	ug/L	96
21) iodomethane	7.870	142	6912	2.11	ug/L	97
22) carbon disulfide	8.032	76	16043	2.11	ug/L	98
23) methylene chloride	8.466	84	7473	2.24	ug/L	95
24) methyl acetate	8.173	43	2748	2.08	ug/L	92
25) methyl tert butyl ether	8.932	73	14306	2.06	ug/L	98
26) trans-1,2-dichloroethene	8.968	61	8911	2.14	ug/L	90
27) hexane	9.402	57	10429	2.20	ug/L	98
28) di-isopropyl ether	9.674	45	18931	2.04	ug/L	97
29) ethyl tert-butyl ether	10.213	59	17469	2.01	ug/L	99
30) 1,1-dichloroethane	9.680	63	11020	2.09	ug/L	99
31) chloroprene	9.795	53	8619	2.03	ug/L	96
32) acrylonitrile	8.869	53	1180	1.83	ug/L	76
33) vinyl acetate	9.622	86	683	1.73	ug/L #	48
34) 2-butanone	10.454	72	1450	7.36	ug/L #	68
36) 2,2-dichloropropane	10.537	77	9047	2.06	ug/L	98
37) cis-1,2-dichloroethene	10.511	96	6902	2.18	ug/L	88
39) propionitrile	10.542	54	5279	20.50	ug/L	96
40) bromochloromethane	10.835	128	2569	2.10	ug/L	97
41) tetrahydrofuran	10.851	42	1178	2.02	ug/L	91
42) chloroform	10.940	83	10482	2.14	ug/L	98
43) t-butyl formate	10.971	59	2616	2.14	ug/L	87
45) methacrylonitrile	10.757	67	1460	2.03	ug/L	78
46) cyclohexane	11.311	84	10067	2.11	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222634.D
Acq On : 11 Aug 2018 2:22 pm
Operator : prashanS
Sample : IC8261-2
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 25 16:33:44 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
47) 1,1,1-trichloroethane	11.201	97	9184	2.09 ug/L	96
48) 1,1-dichloropropene	11.390	75	8323	2.07 ug/L	97
49) carbon tetrachloride	11.411	117	7622	2.08 ug/L	96
50) tert-amyl alcohol	11.541	73	1192	9.96 ug/L #	80
51) isobutyl alcohol	11.374	43	1880	20.37 ug/L	92
54) isopropyl acetate	11.583	87	810	1.81 ug/L #	17
55) 2,2,4-trimethylpentane	11.740	57	27115	2.14 ug/L	98
56) tert-amyl methyl ether	11.740	73	16097	2.05 ug/L	97
57) benzene	11.641	78	24351	2.12 ug/L	98
58) heptane	11.918	57	5560	2.12 ug/L	96
59) 1,2-dichloroethane	11.683	62	6962	2.07 ug/L	92
60) n-butyl alcohol	12.153	56	5156	90.36 ug/L	92
61) ethyl acrylate	12.399	55	4013	1.78 ug/L	93
62) trichloroethene	12.389	95	5869	2.10 ug/L	98
63) 2-chloroethyl vinyl ether	13.189	63	769m	1.33 ug/L	
64) 2-nitropropane	13.147	41	935	1.88 ug/L	96
65) methylcyclohexane	12.676	83	11727	2.11 ug/L	98
67) 1,2-dichloropropane	12.682	63	5805	2.01 ug/L	94
68) dibromomethane	12.786	93	2774	2.06 ug/L	94
69) bromodichloromethane	12.943	83	6926	2.05 ug/L	95
70) epichlorohydrin	13.267	57	1632	9.82 ug/L	86
71) cis-1,3-dichloropropene	13.393	75	8137	1.93 ug/L	95
72) 4-methyl-2-pentanone	13.492	58	5339	7.47 ug/L	99
73) 3-methyl-1-butanol	13.503	55	3290	36.59 ug/L	99
76) toluene	13.754	92	15098	2.10 ug/L	98
77) ethyl methacrylate	13.932	69	4793	1.86 ug/L	91
78) trans-1,3-dichloropropene	13.942	75	7272	2.01 ug/L	94
79) 1,1,2-trichloroethane	14.156	83	3387	2.09 ug/L	94
80) 2-hexanone	14.308	58	4973	7.43 ug/L	89
81) tetrachloroethene	14.277	166	5880	2.13 ug/L	98
82) 1,3-dichloropropane	14.324	76	7215	2.09 ug/L	97
83) butyl acetate	14.376	56	2908	2.17 ug/L #	80
84) dibromochloromethane	14.554	129	3916	1.89 ug/L	99
85) 1,2-dibromoethane	14.695	107	3821	1.98 ug/L	96
86) n-butyl ether	15.082	57	26794	2.06 ug/L	100
87) chlorobenzene	15.135	112	15657	2.07 ug/L	85
88) 1,1,1,2-tetrachloroethane	15.192	131	4973	1.99 ug/L	98
89) ethylbenzene	15.187	91	28821	2.09 ug/L	99
90) m,p-xylene	15.291	106	22093	4.17 ug/L	99
91) o-xylene	15.652	91	21704	2.00 ug/L	100
92) styrene	15.668	104	15628	1.95 ug/L	91
93) butyl acrylate	15.495	55	6792	1.81 ug/L	94
94) bromoform	15.882	173	2164	1.87 ug/L	96
95) isopropylbenzene	15.961	105	28542	2.10 ug/L	98
99) bromobenzene	16.311	156	6239	2.09 ug/L	92
100) 1,1,2,2-tetrachloroethane	16.207	83	5026	2.05 ug/L	98
101) trans-1,4-dichloro-2-b...	16.233	53	1369	2.08 ug/L	95
102) 1,2,3-trichloropropane	16.285	110	1454	2.15 ug/L	92
103) n-propylbenzene	16.317	91	34930	2.12 ug/L	99
104) 2-chlorotoluene	16.442	126	6579	2.06 ug/L	98
105) 4-chlorotoluene	16.536	91	19737	2.10 ug/L	98
106) 1,3,5-trimethylbenzene	16.447	105	23661	2.05 ug/L	97
107) tert-butylbenzene	16.745	134	5025	2.04 ug/L #	82
108) 1,2,4-trimethylbenzene	16.782	105	23703	2.06 ug/L	99
109) sec-butylbenzene	16.928	105	31453	2.09 ug/L	98
110) 1,3-dichlorobenzene	17.080	146	12710	2.08 ug/L	97
111) p-isopropyltoluene	17.033	119	26393	2.10 ug/L	97
112) 1,4-dichlorobenzene	17.159	146	13241	2.15 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222634.D
Acq On : 11 Aug 2018 2:22 pm
Operator : prashanS
Sample : IC8261-2
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 25 16:33:44 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
113) benzyl chloride	17.232	91	9503	2.02 ug/L	100
114) 1,2-dichlorobenzene	17.472	146	11764	2.11 ug/L	96
115) n-butylbenzene	17.368	92	14282	2.13 ug/L	98
116) hexachloroethane	17.718	201	3179	1.96 ug/L #	89
117) 1,2-dibromo-3-chloropr...	18.105	157	871	1.98 ug/L	94
118) 1,3,5-trichlorobenzene	18.252	180	10222	2.12 ug/L	95
121) 1,2,4-trichlorobenzene	18.801	180	8541	2.08 ug/L	98
122) hexachlorobutadiene	18.879	225	4896	2.11 ug/L	94
123) naphthalene	19.068	128	16454	1.99 ug/L	97
124) 1,2,3-trichlorobenzene	19.256	180	7712	2.08 ug/L	99
125) 2-methylnaphthalene	20.119	142	4141	0.87 ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

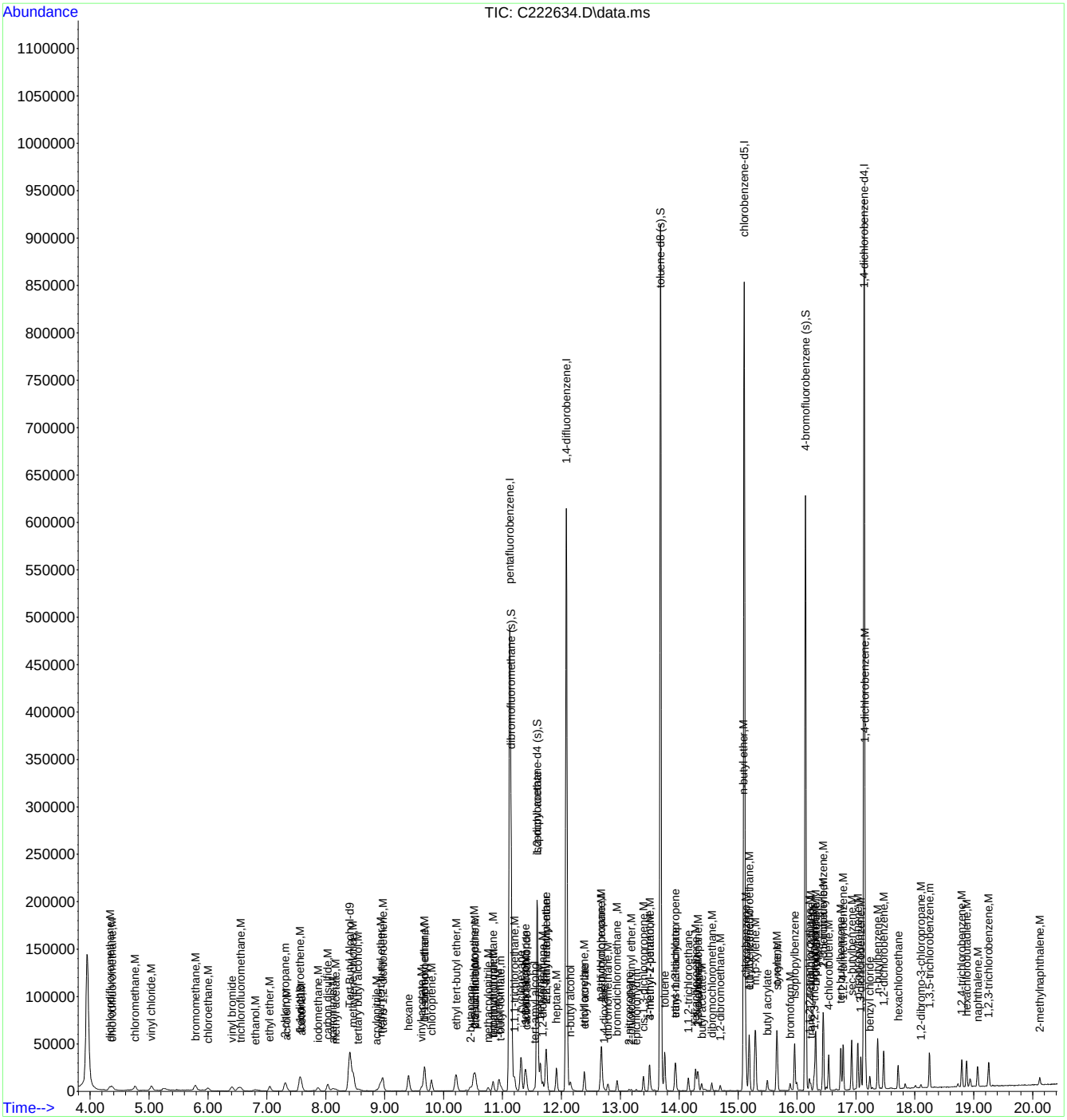
7.7.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222634.D
Acq On : 11 Aug 2018 2:22 pm
Operator : prashanS
Sample : IC8261-2
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 25 16:33:44 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration



MC8261.M Thu Oct 25 18:03:10 2018 C

Page: 4

Manual Integration Approval Summary

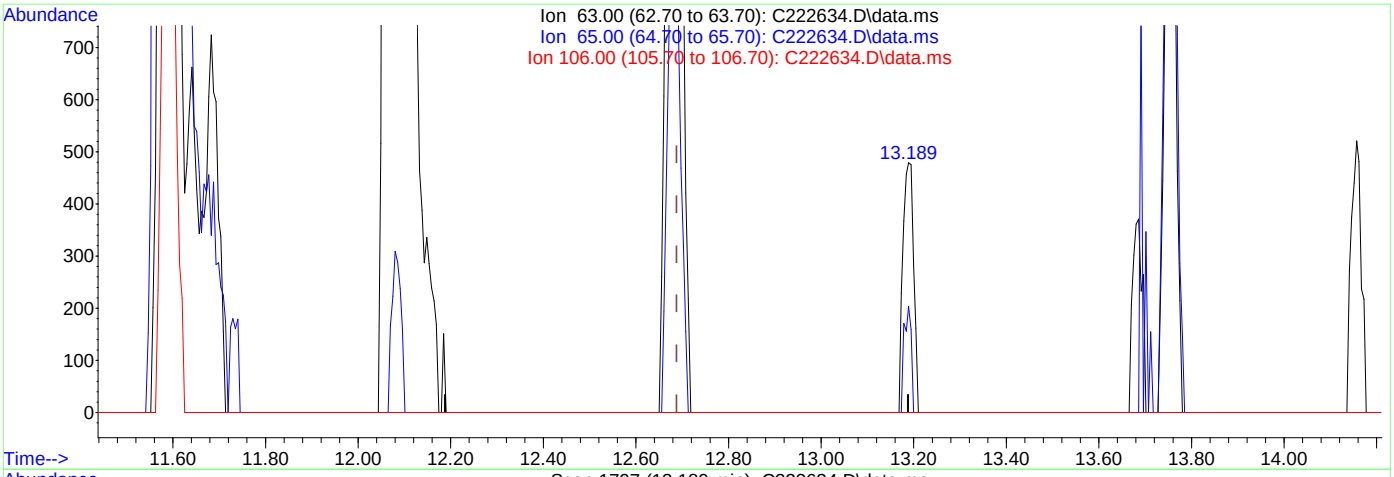
Sample Number:	VC8261-IC8261	**Method:**	SW846 8260C
Lab FileID:	C222634.D	**Analyst approved:**	08/13/18 13:37 Dong, Mei
Injection Time:	08/11/18 14:22	**Supervisor approved:**	08/14/18 16:56 MoHui Huang

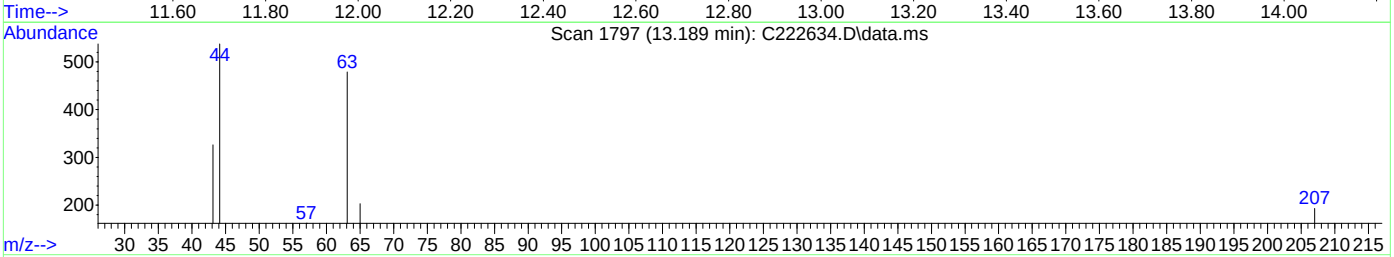
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Chloroethyl vinyl ether	110-75-8		12.68	Missed peak

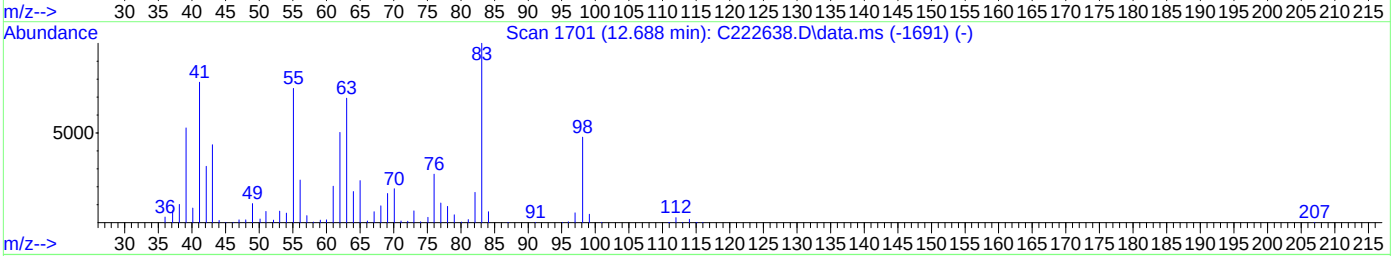
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222634.D
Acq On : 11 Aug 2018 2:22 pm
Operator : prashanS
Sample : IC8261-2
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 13 13:25:51 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: C222634.D\data.ms

(63) 2-chloroethyl vinyl ether (M)

13.189min (+0.501) 1.33ug/L m

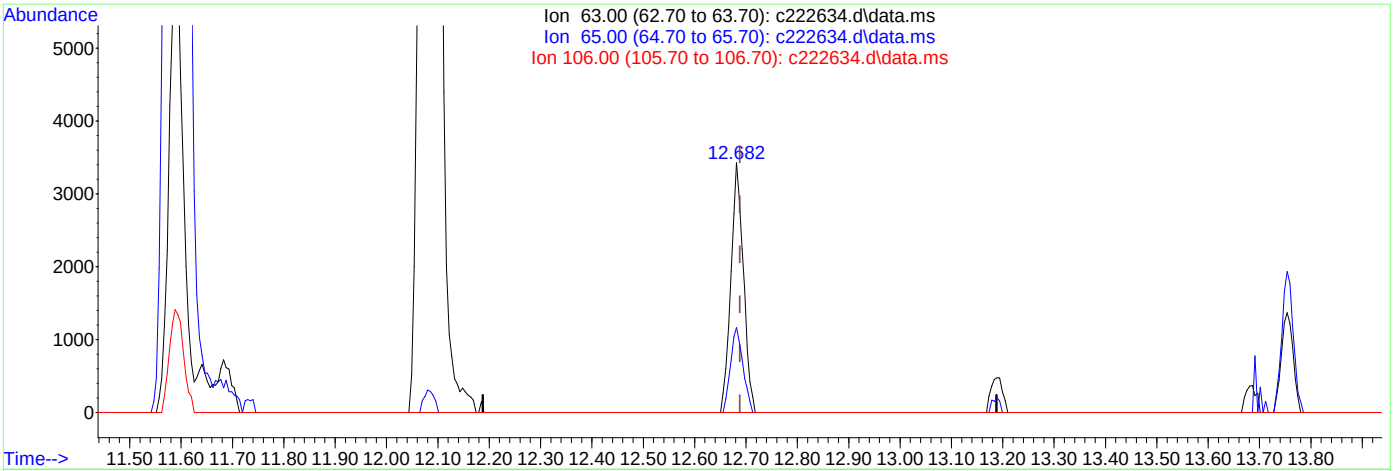
response 769

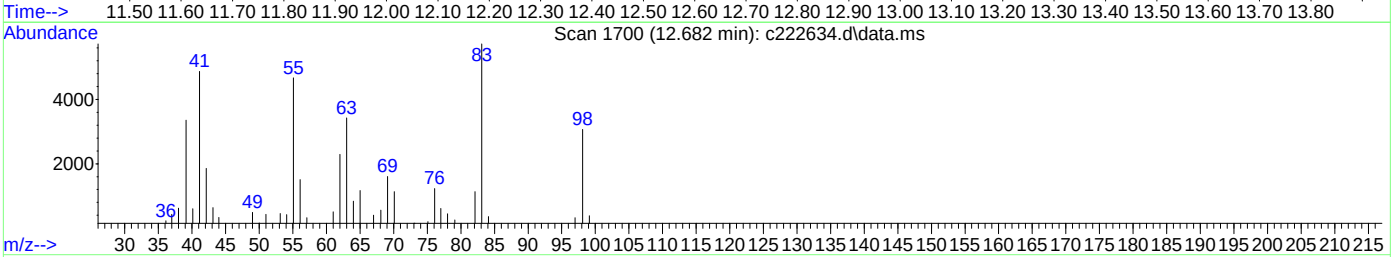
Ion	Exp%	Act%
63.00	100	100
65.00	33.80	42.38
106.00	0.00	0.00
0.00	0.00	0.00

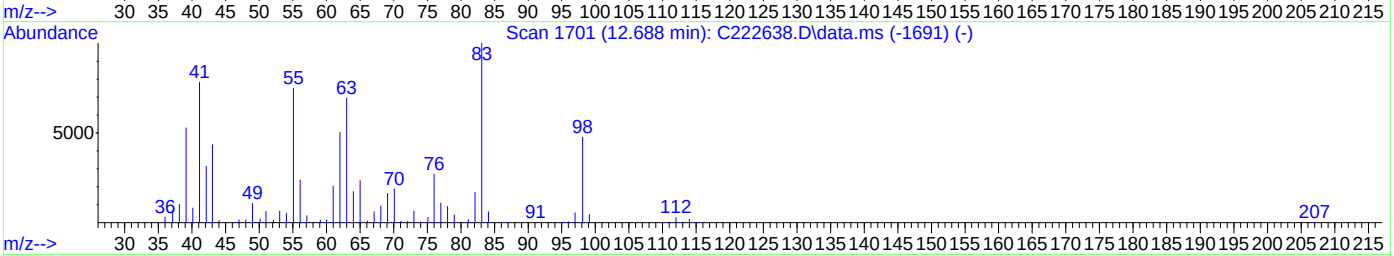
Quantitation Report (Qedit)

Data Path : S:\vc8261\
Data File : c222634.d
Acq On : 11 Aug 2018 2:22 pm
Operator : prashanS
Sample : IC8261-2
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 13 13:25:51 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: c222634.d\data.ms

(63) 2-chloroethyl vinyl ether (M)

12.682min (-0.006) 10.03ug/L

response 5805

Ion	Exp%	Act%
63.00	100	100
65.00	33.80	34.09
106.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
08/14/18 16:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222635.D
Acq On : 11 Aug 2018 2:51 pm
Operator : prashanS
Sample : IC8261-4
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 25 16:33:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.411	65	99048	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	313122	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.088	114	476676	50.00	ug/L	0.00
74) chlorobenzene-d5	15.106	117	411154	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.141	152	208628	50.00	ug/L	0.00

System Monitoring Compounds						
44) dibromofluoromethane (s)	11.147	113	128800	49.88	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 99.76%			
53) 1,2-dichloroethane-d4 (s)	11.591	65	132151	50.52	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 101.04%			
75) toluene-d8 (s)	13.683	98	569709	50.82	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.64%			
98) 4-bromofluorobenzene (s)	16.147	174	152225	50.06	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 100.12%			

Target Compounds						Qvalue
2) ethanol	6.780	45	9212	403.19	ug/L	97
3) tertiary butyl alcohol	8.563	59	5157	20.34	ug/L	95
4) 1,4-dioxane	12.726	88	1892	94.34	ug/L	92
6) chlorodifluoromethane	4.384	51	11712	3.98	ug/L	95
7) dichlorodifluoromethane	4.342	85	17237	4.03	ug/L	93
8) chloromethane	4.766	50	19232	4.09	ug/L	99
9) vinyl chloride	5.048	62	17598	3.93	ug/L	98
10) bromomethane	5.791	94	10990	3.89	ug/L	99
11) chloroethane	6.006	64	10609	4.08	ug/L	96
12) vinyl bromide	6.403	106	12797	3.97	ug/L	96
13) trichlorofluoromethane	6.555	101	18054	3.90	ug/L	95
14) ethyl ether	7.057	74	5727	3.84	ug/L	91
15) 2-chloropropane	7.313	43	20432	3.91	ug/L	99
16) acrolein	7.334	56	1523	4.12	ug/L	78
17) freon 113	7.580	151	8083	4.10	ug/L	96
18) 1,1-dichloroethene	7.559	61	16996	3.86	ug/L	99
19) acetone	7.585	43	7978	15.96	ug/L	98
20) acetonitrile	8.119	41	8688	38.08	ug/L	95
21) iodomethane	7.873	142	12528	3.87	ug/L	93
22) carbon disulfide	8.035	76	29137	3.87	ug/L	99
23) methylene chloride	8.474	84	14793	4.48	ug/L	95
24) methyl acetate	8.171	43	5118	3.93	ug/L	94
25) methyl tert butyl ether	8.929	73	26864	3.92	ug/L	98
26) trans-1,2-dichloroethene	8.971	61	15923	3.87	ug/L	97
27) hexane	9.405	57	18306	3.90	ug/L	94
28) di-isopropyl ether	9.677	45	34965	3.81	ug/L	97
29) ethyl tert-butyl ether	10.216	59	33193	3.86	ug/L	98
30) 1,1-dichloroethane	9.682	63	19985	3.84	ug/L	96
31) chloroprene	9.792	53	15855	3.78	ug/L	95
32) acrylonitrile	8.866	53	2520	3.96	ug/L	84
33) vinyl acetate	9.625	86	1455	3.73	ug/L #	60
34) 2-butanone	10.446	72	2953	15.18	ug/L #	61
35) ethyl acetate	10.467	45	946	3.57	ug/L #	72
36) 2,2-dichloropropane	10.535	77	16852	3.89	ug/L	98
37) cis-1,2-dichloroethene	10.509	96	12225	3.90	ug/L	91
38) methyl acrylate	10.561	85	918	3.64	ug/L #	64
39) propionitrile	10.540	54	9787	38.49	ug/L	95
40) bromochloromethane	10.838	128	4932	4.08	ug/L	94
41) tetrahydrofuran	10.843	42	2088	3.63	ug/L	90
42) chloroform	10.943	83	18689	3.86	ug/L	99
43) t-butyl formate	10.974	59	4498	3.73	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222635.D
Acq On : 11 Aug 2018 2:51 pm
Operator : prashanS
Sample : IC8261-4
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 25 16:33:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
45) methacrylonitrile	10.755	67	2678	3.77 ug/L	94
46) cyclohexane	11.314	84	18822	4.00 ug/L	98
47) 1,1,1-trichloroethane	11.204	97	16896	3.89 ug/L	98
48) 1,1-dichloropropene	11.387	75	14915	3.76 ug/L	97
49) carbon tetrachloride	11.408	117	13853	3.83 ug/L	98
50) tert-amyl alcohol	11.544	73	2299	19.45 ug/L	94
51) isobutyl alcohol	11.382	43	3395	37.25 ug/L #	81
54) isopropyl acetate	11.586	87	1655	3.69 ug/L #	39
55) 2,2,4-trimethylpentane	11.743	57	48265	3.81 ug/L	98
56) tert-amyl methyl ether	11.738	73	29917	3.81 ug/L	98
57) benzene	11.644	78	44909	3.90 ug/L	99
58) heptane	11.916	57	9940	3.80 ug/L	98
59) 1,2-dichloroethane	11.686	62	12911	3.83 ug/L	96
60) n-butyl alcohol	12.151	56	10296	180.30 ug/L	100
61) ethyl acrylate	12.392	55	8407	3.73 ug/L	92
62) trichloroethene	12.386	95	10542	3.77 ug/L	98
63) 2-chloroethyl vinyl ether	13.187	63	1359m	2.35 ug/L	
64) 2-nitropropane	13.150	41	1917	3.85 ug/L	92
65) methylcyclohexane	12.679	83	21747	3.92 ug/L	99
66) methyl methacrylate	12.658	100	1777	3.78 ug/L #	79
67) 1,2-dichloropropane	12.684	63	11020	3.80 ug/L	95
68) dibromomethane	12.789	93	5119	3.79 ug/L	97
69) bromodichloromethane	12.946	83	12860	3.80 ug/L	98
70) epichlorohydrin	13.265	57	2925	17.59 ug/L	96
71) cis-1,3-dichloropropene	13.391	75	15716	3.73 ug/L	98
72) 4-methyl-2-pentanone	13.495	58	10632	14.86 ug/L	93
73) 3-methyl-1-butanol	13.500	55	6476	71.97 ug/L	96
76) toluene	13.757	92	27485	3.85 ug/L	98
77) ethyl methacrylate	13.929	69	9245	3.62 ug/L	95
78) trans-1,3-dichloropropene	13.945	75	13415	3.73 ug/L	99
79) 1,1,2-trichloroethane	14.154	83	6398	3.97 ug/L	97
80) 2-hexanone	14.306	58	10168	15.31 ug/L	99
81) tetrachloroethene	14.274	166	10450	3.81 ug/L	98
82) 1,3-dichloropropane	14.322	76	13477	3.92 ug/L	97
83) butyl acetate	14.379	56	4838	3.64 ug/L	93
84) dibromochloromethane	14.557	129	7633	3.71 ug/L	99
85) 1,2-dibromoethane	14.698	107	7316	3.82 ug/L	99
86) n-butyl ether	15.085	57	48745	3.77 ug/L	95
87) chlorobenzene	15.132	112	29122	3.88 ug/L	89
88) 1,1,1,2-tetrachloroethane	15.195	131	9439	3.80 ug/L	98
89) ethylbenzene	15.184	91	52537	3.84 ug/L	100
90) m,p-xylene	15.294	106	40214	7.64 ug/L	99
91) o-xylene	15.655	91	41184	3.82 ug/L	98
92) styrene	15.666	104	29275	3.69 ug/L	97
93) butyl acrylate	15.498	55	13387	3.60 ug/L	97
94) bromoform	15.880	173	4289	3.73 ug/L	97
95) isopropylbenzene	15.959	105	51833	3.84 ug/L	99
96) cis-1,4-dichloro-2-butene	15.995	88	2879	3.46 ug/L	98
99) bromobenzene	16.309	156	11215	3.74 ug/L	98
100) 1,1,2,2-tetrachloroethane	16.210	83	9380	3.82 ug/L	98
101) trans-1,4-dichloro-2-b...	16.230	53	2434	3.69 ug/L #	78
102) 1,2,3-trichloropropane	16.288	110	2606	3.85 ug/L #	79
103) n-propylbenzene	16.319	91	62995	3.82 ug/L	98
104) 2-chlorotoluene	16.440	126	12182	3.80 ug/L	94
105) 4-chlorotoluene	16.539	91	36070	3.83 ug/L	99
106) 1,3,5-trimethylbenzene	16.450	105	43319	3.75 ug/L	100
107) tert-butylbenzene	16.743	134	9603	3.89 ug/L	97
108) 1,2,4-trimethylbenzene	16.785	105	44299	3.85 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222635.D
Acq On : 11 Aug 2018 2:51 pm
Operator : prashanS
Sample : IC8261-4
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 25 16:33:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
109) sec-butylbenzene	16.926	105	57666	3.82 ug/L	99
110) 1,3-dichlorobenzene	17.083	146	23213	3.79 ug/L	95
111) p-isopropyltoluene	17.031	119	47900	3.80 ug/L	98
112) 1,4-dichlorobenzene	17.161	146	23694	3.83 ug/L	99
113) benzyl chloride	17.235	91	17487	3.70 ug/L	97
114) 1,2-dichlorobenzene	17.470	146	21654	3.87 ug/L	97
115) n-butylbenzene	17.371	92	25843	3.84 ug/L	96
116) hexachloroethane	17.716	201	5998	3.70 ug/L	94
117) 1,2-dibromo-3-chloropr...	18.103	157	1676	3.80 ug/L	93
118) 1,3,5-trichlorobenzene	18.249	180	18488	3.83 ug/L	95
121) 1,2,4-trichlorobenzene	18.799	180	15803	3.84 ug/L	95
122) hexachlorobutadiene	18.882	225	8915	3.84 ug/L	97
123) naphthalene	19.065	128	32377	3.91 ug/L	99
124) 1,2,3-trichlorobenzene	19.254	180	14453	3.89 ug/L	94
125) 2-methylnaphthalene	20.122	142	10030	2.10 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

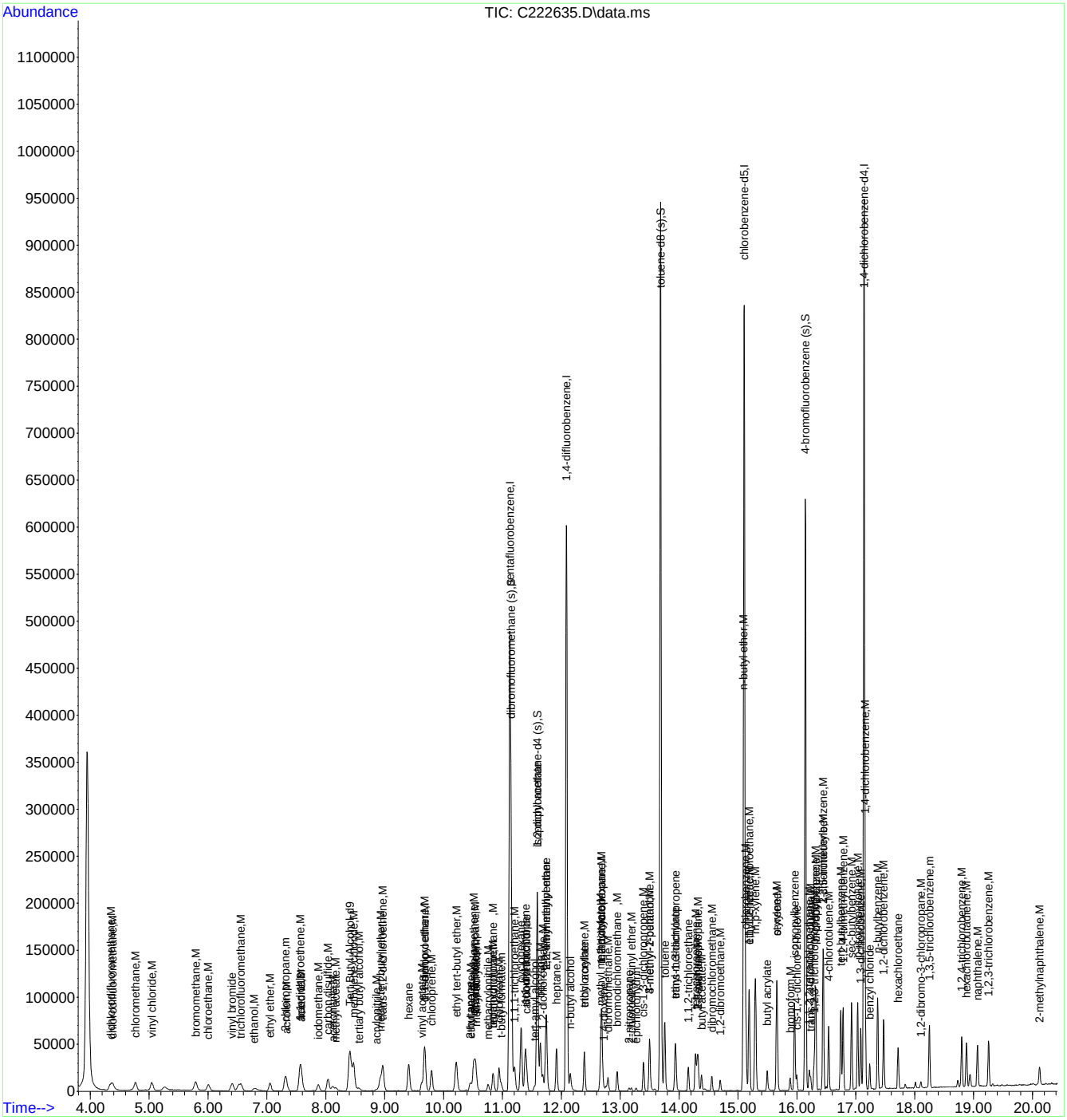
7.7.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222635.D
Acq On : 11 Aug 2018 2:51 pm
Operator : prashanS
Sample : IC8261-4
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 25 16:33:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration



MC8261.M Thu Oct 25 18:03:14 2018 C

Page: 4

Manual Integration Approval Summary

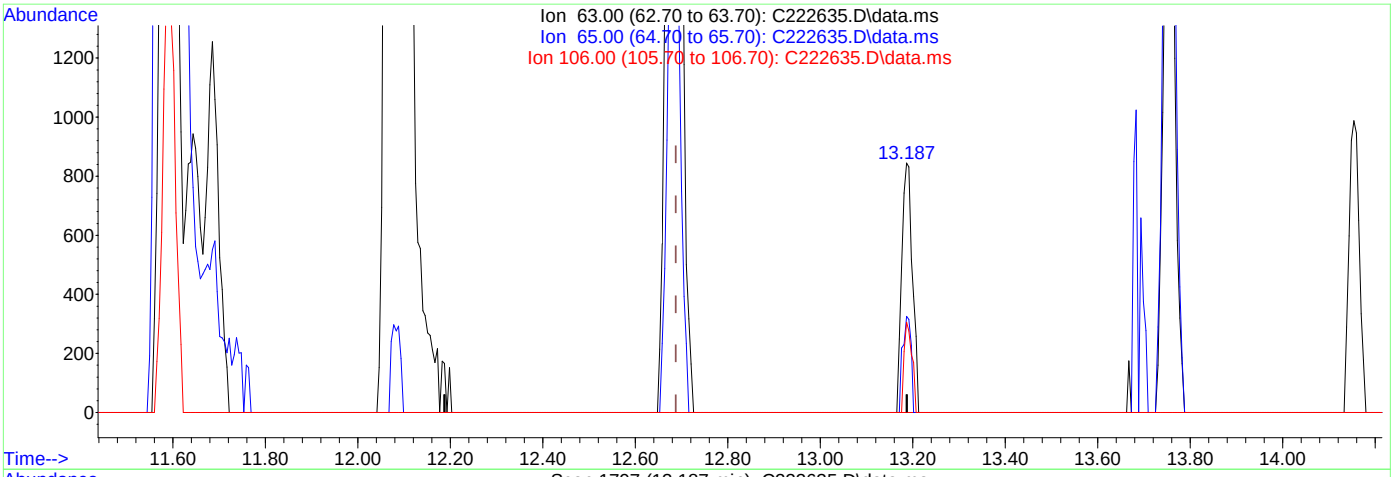
Sample Number:	VC8261-IC8261	**Method:**	SW846 8260C
Lab FileID:	C222635.D	**Analyst approved:**	08/13/18 13:37 Dong, Mei
Injection Time:	08/11/18 14:51	**Supervisor approved:**	08/14/18 16:56 MoHui Huang

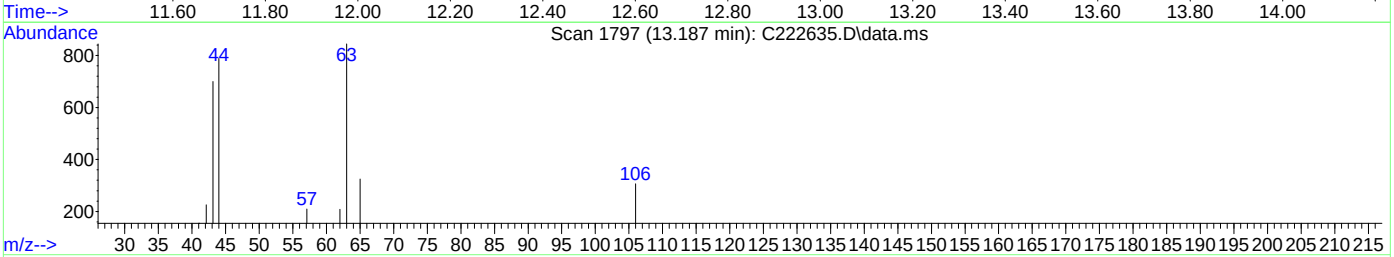
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Chloroethyl vinyl ether	110-75-8		12.68	Missed peak

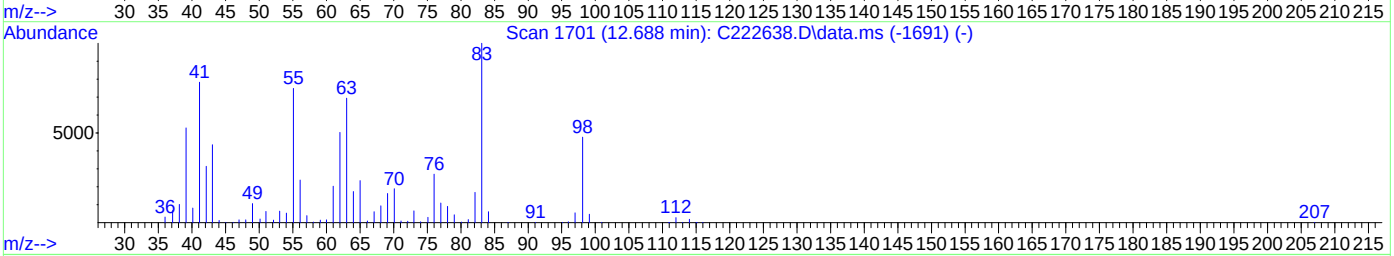
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222635.D
Acq On : 11 Aug 2018 2:51 pm
Operator : prashanS
Sample : IC8261-4
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 13 13:26:20 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: C222635.D\data.ms

(63) 2-chloroethyl vinyl ether (M)

13.187min (+0.499) 2.35ug/L m

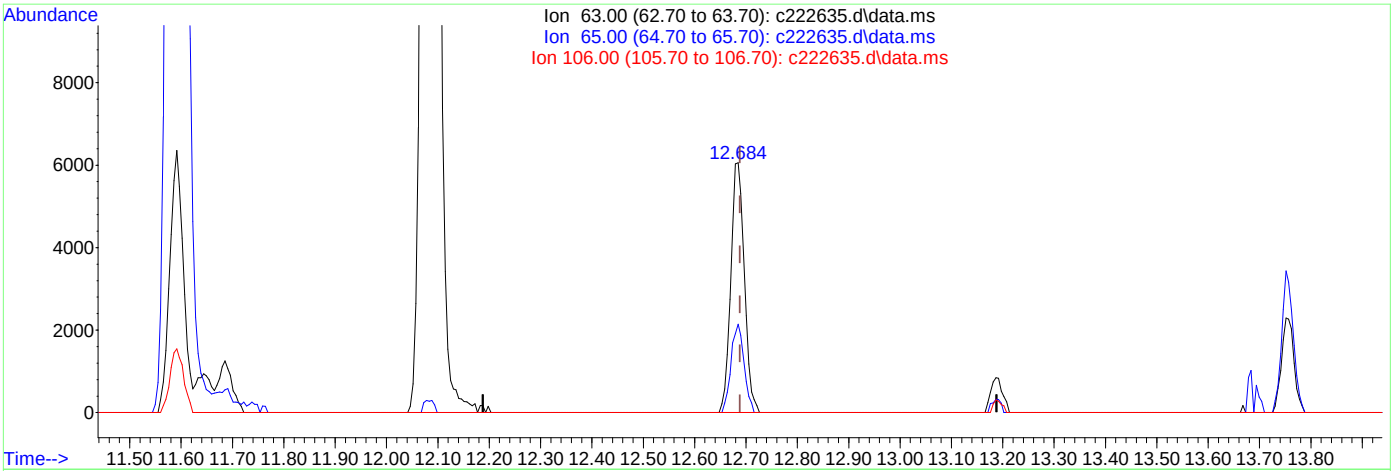
response 1359

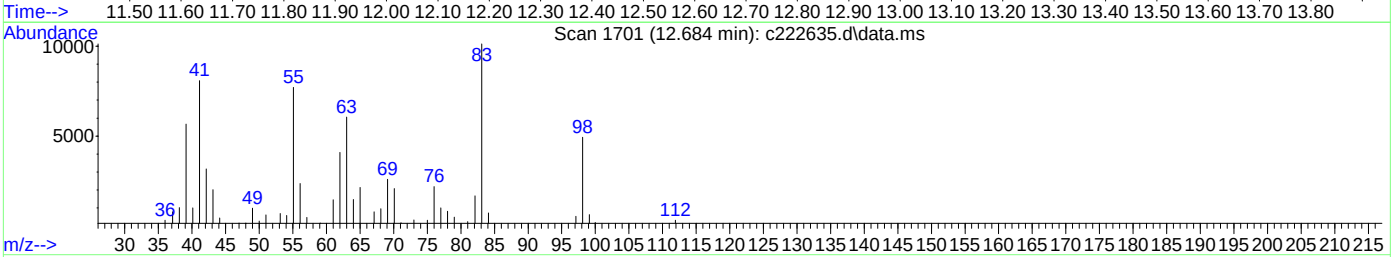
Ion	Exp%	Act%
63.00	100	100
65.00	33.80	38.46
106.00	0.00	36.21#
0.00	0.00	0.00

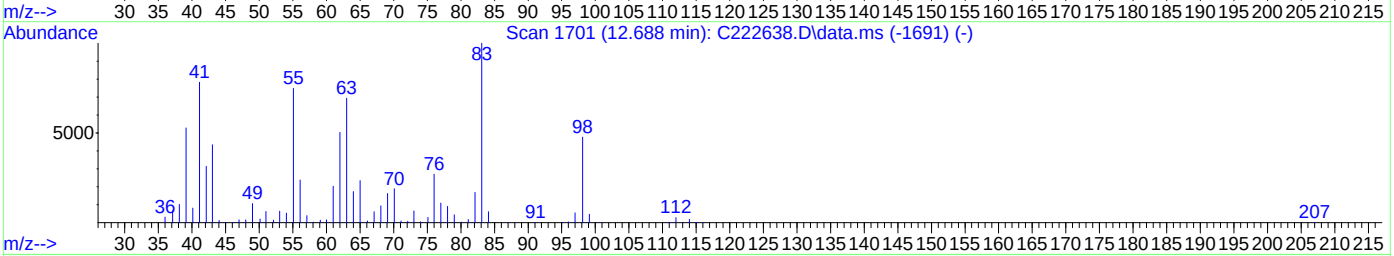
Quantitation Report (Qedit)

Data Path : S:\vc8261\
Data File : c222635.d
Acq On : 11 Aug 2018 2:51 pm
Operator : prashanS
Sample : IC8261-4
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 13 13:26:20 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: c222635.d\data.ms

(63) 2-chloroethyl vinyl ether (M)

12.684min (-0.003) 19.02ug/L

response 11020

Ion	Exp%	Act%
63.00	100	100
65.00	33.80	35.44
106.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
08/14/18 16:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222636.D
Acq On : 11 Aug 2018 3:20 pm
Operator : prashanS
Sample : IC8261-8
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 25 16:32:39 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.407	65	104447	500.00	ug/L	0.00
5) pentafluorobenzene	11.127	168	321771	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.089	114	498205	50.00	ug/L	0.00
74) chlorobenzene-d5	15.102	117	432533	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.141	152	215734	50.00	ug/L	0.00

System Monitoring Compounds						
44) dibromofluoromethane (s)	11.148	113	132558	49.95	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 99.90%			
53) 1,2-dichloroethane-d4 (s)	11.592	65	136728	50.01	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 100.02%			
75) toluene-d8 (s)	13.684	98	596824	50.61	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.22%			
98) 4-bromofluorobenzene (s)	16.142	174	157400	50.06	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 100.12%			

Target Compounds						Qvalue
2) ethanol	6.791	45	18887	783.92	ug/L	96
3) tertiary butyl alcohol	8.559	59	10893	40.75	ug/L	91
4) 1,4-dioxane	12.727	88	4031	190.60	ug/L	91
6) chlorodifluoromethane	4.380	51	24293	8.04	ug/L	99
7) dichlorodifluoromethane	4.343	85	35850	8.16	ug/L	98
8) chloromethane	4.772	50	39211	8.12	ug/L	97
9) vinyl chloride	5.049	62	36925	8.02	ug/L	98
10) bromomethane	5.792	94	23165	7.97	ug/L	96
11) chloroethane	6.001	64	21666	8.10	ug/L	94
12) vinyl bromide	6.414	106	26772	8.09	ug/L	96
13) trichlorofluoromethane	6.555	101	37858	7.96	ug/L	99
14) ethyl ether	7.058	74	12558	8.20	ug/L	96
15) 2-chloropropane	7.314	43	42932	7.99	ug/L	99
16) acrolein	7.340	56	3069	8.08	ug/L	86
17) freon 113	7.586	151	16737	8.26	ug/L	94
18) 1,1-dichloroethene	7.560	61	36174	8.00	ug/L	97
19) acetone	7.586	43	16834	32.78	ug/L	95
20) acetonitrile	8.119	41	18782	80.10	ug/L	99
21) iodomethane	7.873	142	27387	8.24	ug/L	99
22) carbon disulfide	8.036	76	62724	8.12	ug/L	98
23) methylene chloride	8.475	84	34709	10.23	ug/L	98
24) methyl acetate	8.172	43	10870	8.12	ug/L	98
25) methyl tert butyl ether	8.935	73	57062	8.11	ug/L	99
26) trans-1,2-dichloroethene	8.972	61	34117	8.07	ug/L	99
27) hexane	9.411	57	37895	7.87	ug/L	95
28) di-isopropyl ether	9.678	45	75736	8.03	ug/L	100
29) ethyl tert-butyl ether	10.217	59	70720	8.01	ug/L	99
30) 1,1-dichloroethane	9.683	63	42873	8.01	ug/L	99
31) chloroprene	9.798	53	34282	7.95	ug/L	98
32) acrylonitrile	8.872	53	5446	8.33	ug/L	91
33) vinyl acetate	9.631	86	3160	7.89	ug/L #	89
34) 2-butanone	10.447	72	6832	34.17	ug/L #	89
35) ethyl acetate	10.473	45	2472	9.08	ug/L #	87
36) 2,2-dichloropropane	10.541	77	34921	7.85	ug/L	99
37) cis-1,2-dichloroethene	10.509	96	26086	8.11	ug/L	98
38) methyl acrylate	10.562	85	2178	8.39	ug/L #	70
39) propionitrile	10.541	54	21869	83.70	ug/L	98
40) bromochloromethane	10.844	128	10542	8.49	ug/L	90
41) tetrahydrofuran	10.849	42	4856	8.21	ug/L	93
42) chloroform	10.944	83	39866	8.00	ug/L	98
43) t-butyl formate	10.975	59	10107	8.16	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222636.D
Acq On : 11 Aug 2018 3:20 pm
Operator : prashanS
Sample : IC8261-8
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 25 16:32:39 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
45) methacrylonitrile	10.755	67	6088	8.33 ug/L	89
46) cyclohexane	11.315	84	38444	7.95 ug/L	92
47) 1,1,1-trichloroethane	11.205	97	36186	8.10 ug/L	98
48) 1,1-dichloropropene	11.388	75	32958	8.09 ug/L	99
49) carbon tetrachloride	11.404	117	29722	8.00 ug/L	93
50) tert-amyl alcohol	11.545	73	4946	40.72 ug/L	98
51) isobutyl alcohol	11.372	43	7545	80.55 ug/L	97
54) isopropyl acetate	11.582	87	3754	8.00 ug/L #	93
55) 2,2,4-trimethylpentane	11.744	57	102554	7.75 ug/L	99
56) tert-amyl methyl ether	11.739	73	65226	7.95 ug/L	99
57) benzene	11.644	78	96901	8.05 ug/L	98
58) heptane	11.916	57	21487	7.85 ug/L	99
59) 1,2-dichloroethane	11.686	62	28107	7.98 ug/L	99
60) n-butyl alcohol	12.152	56	24816	415.80 ug/L	99
61) ethyl acrylate	12.398	55	19573	8.30 ug/L	99
62) trichloroethene	12.392	95	23004	7.88 ug/L	98
63) 2-chloroethyl vinyl ether	13.187	63	2917m	4.82 ug/L	
64) 2-nitropropane	13.151	41	4365	8.39 ug/L	93
65) methylcyclohexane	12.680	83	45197	7.79 ug/L	99
66) methyl methacrylate	12.659	100	4189	8.52 ug/L #	89
67) 1,2-dichloropropane	12.685	63	23920	7.90 ug/L	100
68) dibromomethane	12.790	93	11726	8.31 ug/L	98
69) bromodichloromethane	12.947	83	28241	7.99 ug/L	99
70) epichlorohydrin	13.271	57	7428	42.75 ug/L	94
71) cis-1,3-dichloropropene	13.396	75	35629	8.09 ug/L	98
72) 4-methyl-2-pentanone	13.496	58	25089	33.55 ug/L	96
73) 3-methyl-1-butanol	13.501	55	15953	169.63 ug/L	96
76) toluene	13.757	92	60729	8.10 ug/L	98
77) ethyl methacrylate	13.935	69	21091	7.84 ug/L	99
78) trans-1,3-dichloropropene	13.946	75	30557	8.07 ug/L	98
79) 1,1,2-trichloroethane	14.155	83	13822	8.16 ug/L	96
80) 2-hexanone	14.307	58	23662	33.86 ug/L	95
81) tetrachloroethene	14.280	166	23365	8.09 ug/L	100
82) 1,3-dichloropropane	14.322	76	29872	8.27 ug/L	99
83) butyl acetate	14.380	56	12095	8.65 ug/L	94
84) dibromochloromethane	14.552	129	17635	8.16 ug/L	98
85) 1,2-dibromoethane	14.699	107	16281	8.07 ug/L	90
86) n-butyl ether	15.086	57	107626	7.92 ug/L	98
87) chlorobenzene	15.133	112	64093	8.12 ug/L	96
88) 1,1,1,2-tetrachloroethane	15.196	131	20933	8.02 ug/L	97
89) ethylbenzene	15.185	91	114040	7.92 ug/L	99
90) m,p-xylene	15.290	106	88944	16.07 ug/L	98
91) o-xylene	15.656	91	90962	8.03 ug/L	99
92) styrene	15.666	104	65575	7.85 ug/L	99
93) butyl acrylate	15.494	55	31483	8.05 ug/L	98
94) bromoform	15.881	173	9946	8.22 ug/L	98
95) isopropylbenzene	15.959	105	113504	8.00 ug/L	98
96) cis-1,4-dichloro-2-butene	15.996	88	7007	8.01 ug/L	96
99) bromobenzene	16.310	156	24700	7.97 ug/L	100
100) 1,1,2,2-tetrachloroethane	16.205	83	20715	8.17 ug/L	97
101) trans-1,4-dichloro-2-b...	16.231	53	5486	8.04 ug/L	96
102) 1,2,3-trichloropropane	16.289	110	5708	8.15 ug/L #	79
103) n-propylbenzene	16.320	91	135096	7.92 ug/L	100
104) 2-chlorotoluene	16.440	126	26870	8.11 ug/L	94
105) 4-chlorotoluene	16.540	91	77268	7.94 ug/L	97
106) 1,3,5-trimethylbenzene	16.446	105	94520	7.92 ug/L	99
107) tert-butylbenzene	16.744	134	20778	8.14 ug/L	90
108) 1,2,4-trimethylbenzene	16.786	105	94155	7.91 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222636.D
Acq On : 11 Aug 2018 3:20 pm
Operator : prashanS
Sample : IC8261-8
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 25 16:32:39 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
109) sec-butylbenzene	16.927	105	125448	8.03 ug/L	99
110) 1,3-dichlorobenzene	17.084	146	49960	7.89 ug/L	97
111) p-isopropyltoluene	17.031	119	104235	8.00 ug/L	99
112) 1,4-dichlorobenzene	17.162	146	50564	7.91 ug/L	96
113) benzyl chloride	17.235	91	39056	8.00 ug/L	97
114) 1,2-dichlorobenzene	17.471	146	45962	7.94 ug/L	100
115) n-butylbenzene	17.371	92	54393	7.81 ug/L	98
116) hexachloroethane	17.722	201	13565	8.08 ug/L	95
117) 1,2-dibromo-3-chloropr...	18.109	157	3855	8.44 ug/L	98
118) 1,3,5-trichlorobenzene	18.250	180	39321	7.87 ug/L	94
120) 2-ethylhexyl acrylate	18.731	70	3351	1.68 ug/L	92
121) 1,2,4-trichlorobenzene	18.799	180	32788	7.71 ug/L	98
122) hexachlorobutadiene	18.878	225	18412	7.66 ug/L	93
123) naphthalene	19.066	128	67626	7.91 ug/L	99
124) 1,2,3-trichlorobenzene	19.254	180	29860	7.77 ug/L	97
125) 2-methylnaphthalene	20.122	142	18472	3.74 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

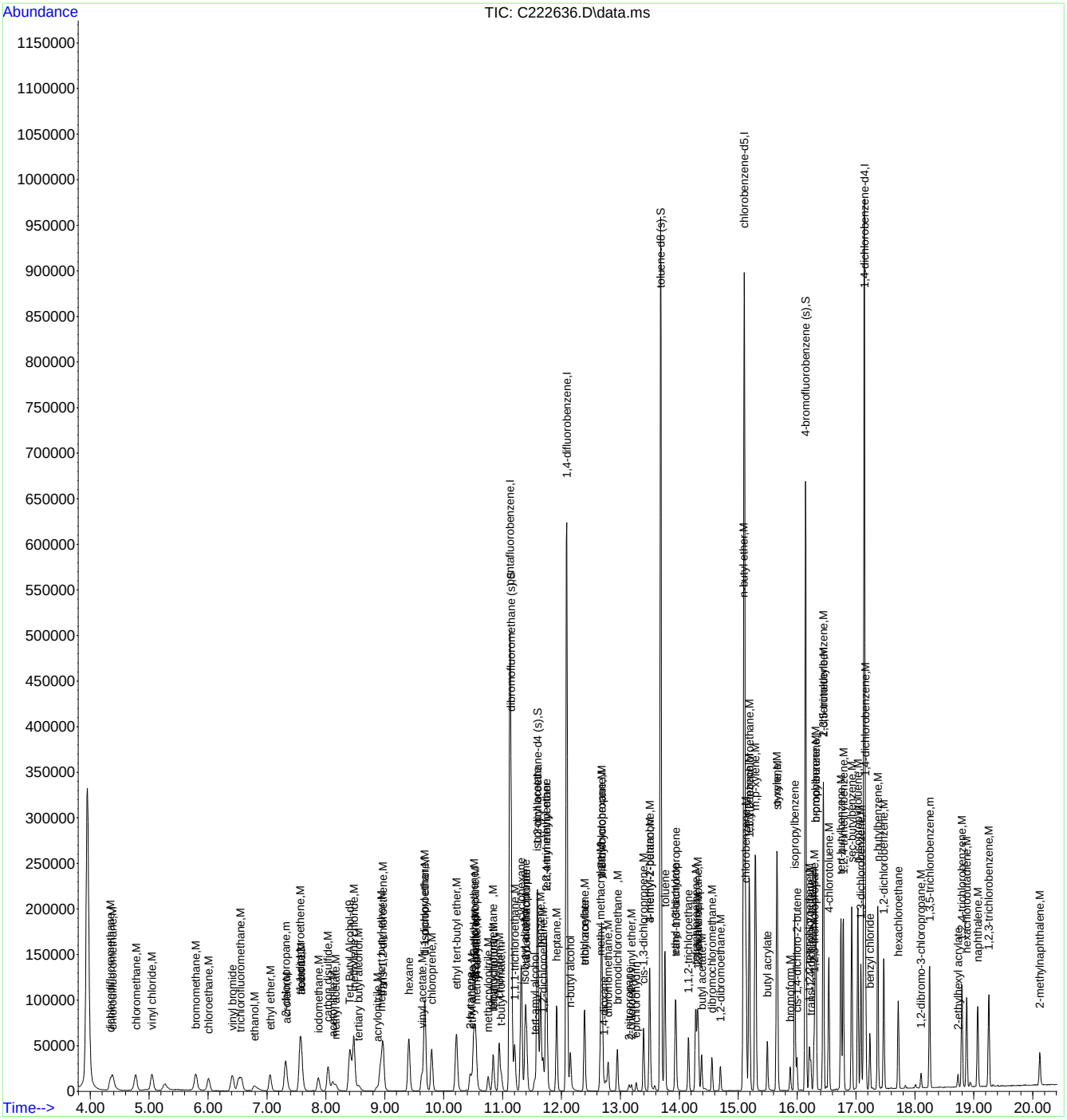
7.7.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222636.D
Acq On : 11 Aug 2018 3:20 pm
Operator : prashanS
Sample : IC8261-8
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 25 16:32:39 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration



Manual Integration Approval Summary

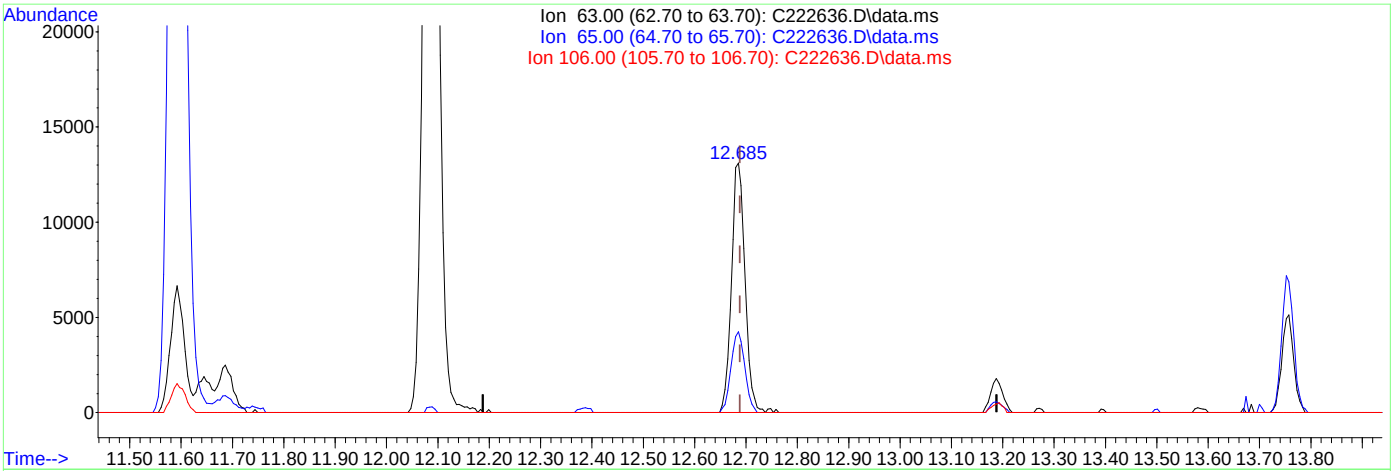
Sample Number:	VC8261-IC8261	**Method:**	SW846 8260C
Lab FileID:	C222636.D	**Analyst approved:**	08/13/18 13:37 Dong, Mei
Injection Time:	08/11/18 15:20	**Supervisor approved:**	08/14/18 16:56 MoHui Huang

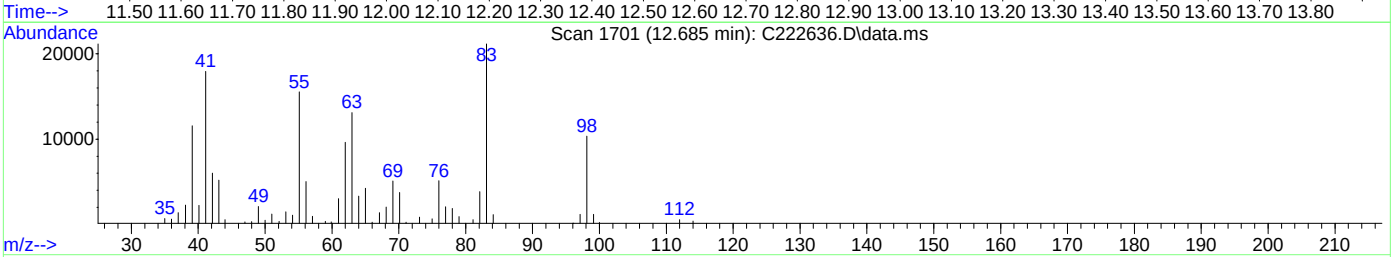
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Chloroethyl vinyl ether	110-75-8		12.69	Missed peak

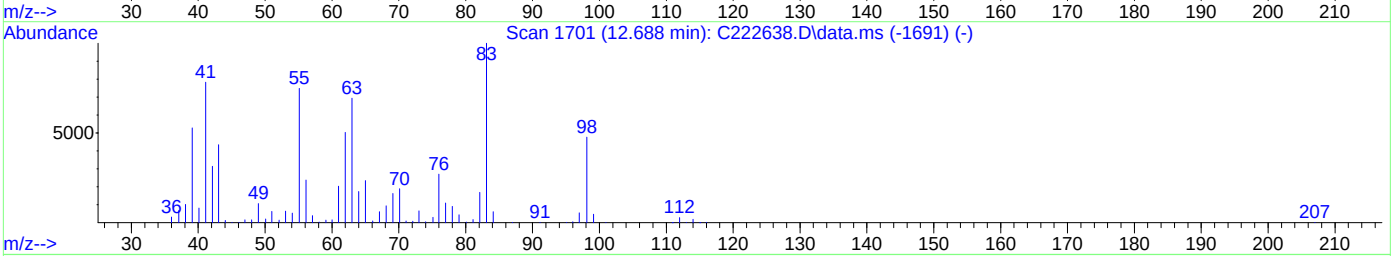
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222636.D
Acq On : 11 Aug 2018 3:20 pm
Operator : prashanS
Sample : IC8261-8
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 13 13:26:40 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: C222636.D\data.ms

(63) 2-chloroethyl vinyl ether (M)

12.685min (-0.003) 39.51ug/L

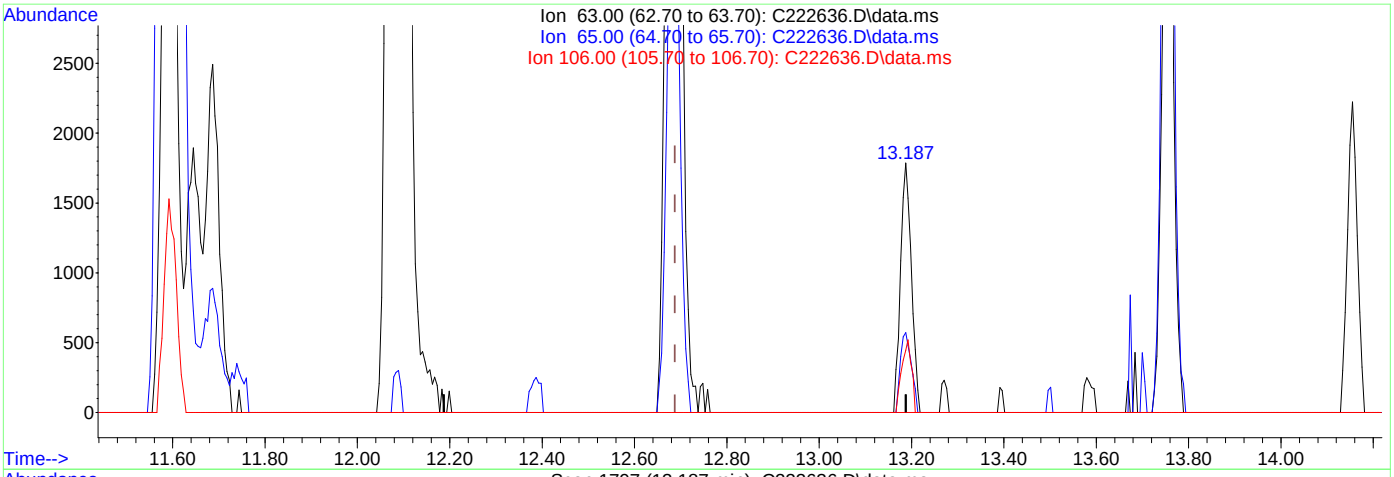
response 23920

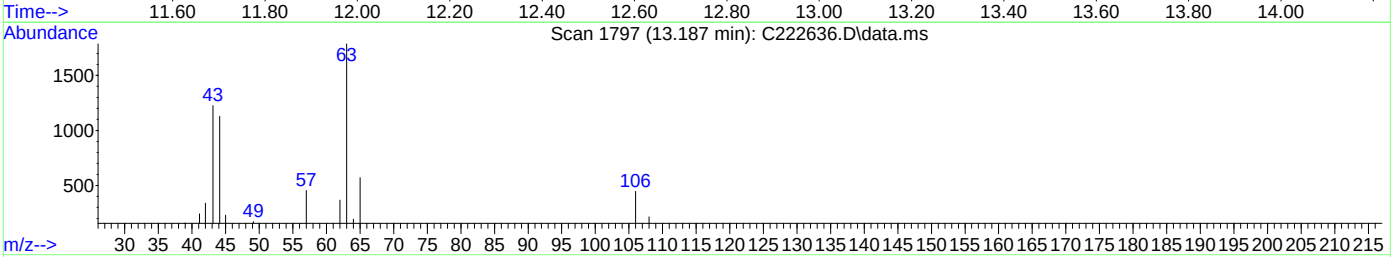
Ion	Exp%	Act%
63.00	100	100
65.00	33.80	32.32
106.00	0.00	0.00
0.00	0.00	0.00

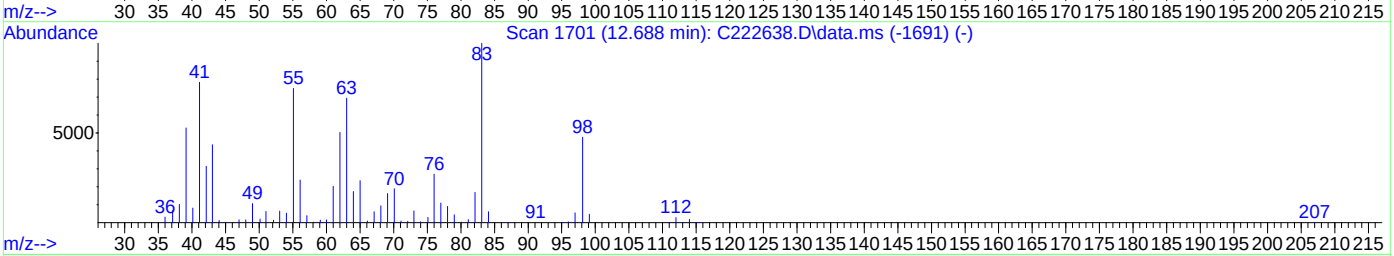
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222636.D
Acq On : 11 Aug 2018 3:20 pm
Operator : prashanS
Sample : IC8261-8
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 13 13:26:40 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: C222636.D\data.ms

(63) 2-chloroethyl vinyl ether (M)

13.187min (+0.499) 4.82ug/L m

response 2917

Ion	Exp%	Act%
63.00	100	100
65.00	33.80	32.01
106.00	0.00	24.90
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
08/14/18 16:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222637.D
Acq On : 11 Aug 2018 3:49 pm
Operator : prashanS
Sample : IC8261-20
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 25 16:31:41 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.419	65	105810	500.00	ug/L	0.00
5) pentafluorobenzene	11.123	168	322474	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.085	114	482548	50.00	ug/L	0.00
74) chlorobenzene-d5	15.103	117	414744	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.138	152	211362	50.00	ug/L	0.00

System Monitoring Compounds						
44) dibromofluoromethane (s)	11.149	113	135755	51.05	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 102.10%			
53) 1,2-dichloroethane-d4 (s)	11.594	65	135025	50.99	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 101.98%			
75) toluene-d8 (s)	13.686	98	573218	50.69	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.38%			
98) 4-bromofluorobenzene (s)	16.144	174	153419	49.80	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 99.60%			

Target Compounds						Qvalue
2) ethanol	6.798	45	45600	1868.28	ug/L	99
3) tertiary butyl alcohol	8.565	59	26399	97.47	ug/L	98
4) 1,4-dioxane	12.729	88	10668	497.93	ug/L	96
6) chlorodifluoromethane	4.381	51	59195	19.55	ug/L	99
7) dichlorodifluoromethane	4.340	85	88288	20.05	ug/L	96
8) chloromethane	4.768	50	95257	19.68	ug/L	99
9) vinyl chloride	5.046	62	91215	19.77	ug/L	98
10) bromomethane	5.788	94	56374	19.37	ug/L	95
11) chloroethane	6.008	64	51756	19.31	ug/L	97
12) vinyl bromide	6.411	106	64896	19.56	ug/L	99
13) trichlorofluoromethane	6.547	101	92088	19.31	ug/L	99
14) ethyl ether	7.059	74	31227	20.34	ug/L	96
15) 2-chloropropane	7.321	43	106964	19.86	ug/L	99
16) acrolein	7.336	56	7606	19.97	ug/L	86
17) freon 113	7.577	151	41502	20.43	ug/L	99
18) 1,1-dichloroethene	7.561	61	89818	19.83	ug/L	97
19) acetone	7.593	43	41114	79.88	ug/L	97
20) acetonitrile	8.121	41	46210	196.65	ug/L	98
21) iodomethane	7.875	142	67138	20.15	ug/L	99
22) carbon disulfide	8.037	76	154246	19.92	ug/L	100
23) methylene chloride	8.477	84	66089	19.44	ug/L	99
24) methyl acetate	8.173	43	27829	20.74	ug/L	99
25) methyl tert butyl ether	8.937	73	142950	20.27	ug/L	100
26) trans-1,2-dichloroethene	8.973	61	84587	19.97	ug/L	97
27) hexane	9.408	57	94233	19.52	ug/L	98
28) di-isopropyl ether	9.679	45	190705	20.16	ug/L	98
29) ethyl tert-butyl ether	10.218	59	177168	20.02	ug/L	98
30) 1,1-dichloroethane	9.685	63	107513	20.04	ug/L	98
31) chloroprene	9.800	53	89713	20.75	ug/L	99
32) acrylonitrile	8.858	53	13662	20.86	ug/L	91
33) vinyl acetate	9.627	86	8130	20.25	ug/L	96
34) 2-butanone	10.448	72	17533	87.49	ug/L	96
35) ethyl acetate	10.474	45	5588	20.47	ug/L #	86
36) 2,2-dichloropropane	10.537	77	88344	19.83	ug/L	99
37) cis-1,2-dichloroethene	10.511	96	65049	20.17	ug/L	98
38) methyl acrylate	10.558	85	5540	21.31	ug/L	98
39) propionitrile	10.542	54	54776	209.20	ug/L	84
40) bromochloromethane	10.841	128	25986	20.89	ug/L	96
41) tetrahydrofuran	10.851	42	11781	19.88	ug/L	89
42) chloroform	10.945	83	100004	20.03	ug/L	100
43) t-butyl formate	10.982	59	26774	21.58	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222637.D
Acq On : 11 Aug 2018 3:49 pm
Operator : prashanS
Sample : IC8261-20
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 25 16:31:41 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
45) methacrylonitrile	10.757	67	15185	20.74 ug/L	97
46) cyclohexane	11.317	84	97447	20.10 ug/L	94
47) 1,1,1-trichloroethane	11.207	97	89668	20.02 ug/L	99
48) 1,1-dichloropropene	11.390	75	82061	20.11 ug/L	99
49) carbon tetrachloride	11.411	117	75083	20.15 ug/L	99
50) tert-amyl alcohol	11.541	73	12433	102.14 ug/L	98
51) isobutyl alcohol	11.379	43	19231	204.87 ug/L	95
54) isopropyl acetate	11.583	87	9525	20.96 ug/L #	90
55) 2,2,4-trimethylpentane	11.745	57	265624	20.74 ug/L	99
56) tert-amyl methyl ether	11.740	73	164936	20.76 ug/L	99
57) benzene	11.646	78	235974	20.25 ug/L	99
58) heptane	11.918	57	54118	20.41 ug/L	98
59) 1,2-dichloroethane	11.688	62	67418	19.77 ug/L	96
60) n-butyl alcohol	12.148	56	62191	1075.84 ug/L	100
61) ethyl acrylate	12.394	55	46943	20.55 ug/L	100
62) trichloroethene	12.389	95	56814	20.09 ug/L	98
63) 2-chloroethyl vinyl ether	13.184	63	9030m	15.40 ug/L	
64) 2-nitropropane	13.147	41	9888	19.63 ug/L	93
65) methylcyclohexane	12.682	83	116019	20.65 ug/L	99
66) methyl methacrylate	12.655	100	9992	20.98 ug/L	96
67) 1,2-dichloropropane	12.687	63	59113	20.16 ug/L	98
68) dibromomethane	12.791	93	27615	20.20 ug/L	96
69) bromodichloromethane	12.948	83	69460	20.30 ug/L	98
70) epichlorohydrin	13.267	57	17644	104.84 ug/L	98
71) cis-1,3-dichloropropene	13.393	75	86135	20.19 ug/L	99
72) 4-methyl-2-pentanone	13.497	58	62767	86.67 ug/L	99
73) 3-methyl-1-butanol	13.503	55	40361	443.08 ug/L	99
76) toluene	13.754	92	143803	19.99 ug/L	97
77) ethyl methacrylate	13.932	69	54210	21.01 ug/L	98
78) trans-1,3-dichloropropene	13.942	75	72804	20.06 ug/L	97
79) 1,1,2-trichloroethane	14.156	83	33071	20.36 ug/L	97
80) 2-hexanone	14.303	58	58132	86.77 ug/L	100
81) tetrachloroethene	14.277	166	56051	20.24 ug/L	99
82) 1,3-dichloropropane	14.324	76	70773	20.43 ug/L	99
83) butyl acetate	14.376	56	28253	21.07 ug/L	96
84) dibromochloromethane	14.554	129	43011	20.74 ug/L	99
85) 1,2-dibromoethane	14.695	107	39518	20.44 ug/L	99
86) n-butyl ether	15.082	57	266438	20.45 ug/L	99
87) chlorobenzene	15.134	112	151265	19.98 ug/L	98
88) 1,1,1,2-tetrachloroethane	15.197	131	52243	20.86 ug/L	98
89) ethylbenzene	15.187	91	276484	20.03 ug/L	100
90) m,p-xylene	15.291	106	214091	40.35 ug/L	99
91) o-xylene	15.652	91	220932	20.33 ug/L	100
92) styrene	15.663	104	166102	20.74 ug/L	99
93) butyl acrylate	15.495	55	80609	21.49 ug/L	98
94) bromoform	15.882	173	24142	20.80 ug/L	97
95) isopropylbenzene	15.961	105	277044	20.37 ug/L	99
96) cis-1,4-dichloro-2-butene	15.997	88	17214	20.53 ug/L	99
99) bromobenzene	16.306	156	58885	19.39 ug/L	97
100) 1,1,2,2-tetrachloroethane	16.207	83	50875	20.47 ug/L	99
101) trans-1,4-dichloro-2-b...	16.233	53	13539	20.24 ug/L	97
102) 1,2,3-trichloropropane	16.285	110	14262	20.79 ug/L	96
103) n-propylbenzene	16.322	91	333713	19.97 ug/L	99
104) 2-chlorotoluene	16.442	126	64995	20.01 ug/L	99
105) 4-chlorotoluene	16.536	91	188919	19.81 ug/L	99
106) 1,3,5-trimethylbenzene	16.447	105	233568	19.97 ug/L	99
107) tert-butylbenzene	16.745	134	50132	20.05 ug/L	96
108) 1,2,4-trimethylbenzene	16.782	105	233849	20.05 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222637.D
Acq On : 11 Aug 2018 3:49 pm
Operator : prashanS
Sample : IC8261-20
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 25 16:31:41 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
109) sec-butylbenzene	16.928	105	313473	20.49 ug/L	98
110) 1,3-dichlorobenzene	17.085	146	121699	19.61 ug/L	97
111) p-isopropyltoluene	17.033	119	258554	20.25 ug/L	98
112) 1,4-dichlorobenzene	17.164	146	121380	19.38 ug/L	97
113) benzyl chloride	17.237	91	96471	20.17 ug/L	99
114) 1,2-dichlorobenzene	17.472	146	113465	20.00 ug/L	100
115) n-butylbenzene	17.368	92	138705	20.34 ug/L	97
116) hexachloroethane	17.718	201	34303	20.86 ug/L	96
117) 1,2-dibromo-3-chloropr...	18.105	157	9634	21.54 ug/L	94
118) 1,3,5-trichlorobenzene	18.252	180	98433	20.10 ug/L	96
120) 2-ethylhexyl acrylate	18.733	70	10834	3.88 ug/L	96
121) 1,2,4-trichlorobenzene	18.801	180	85147	20.43 ug/L	99
122) hexachlorobutadiene	18.879	225	47295	20.09 ug/L	99
123) naphthalene	19.068	128	173490	20.70 ug/L	100
124) 1,2,3-trichlorobenzene	19.256	180	77339	20.53 ug/L	100
125) 2-methylnaphthalene	20.119	142	51906	10.71 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

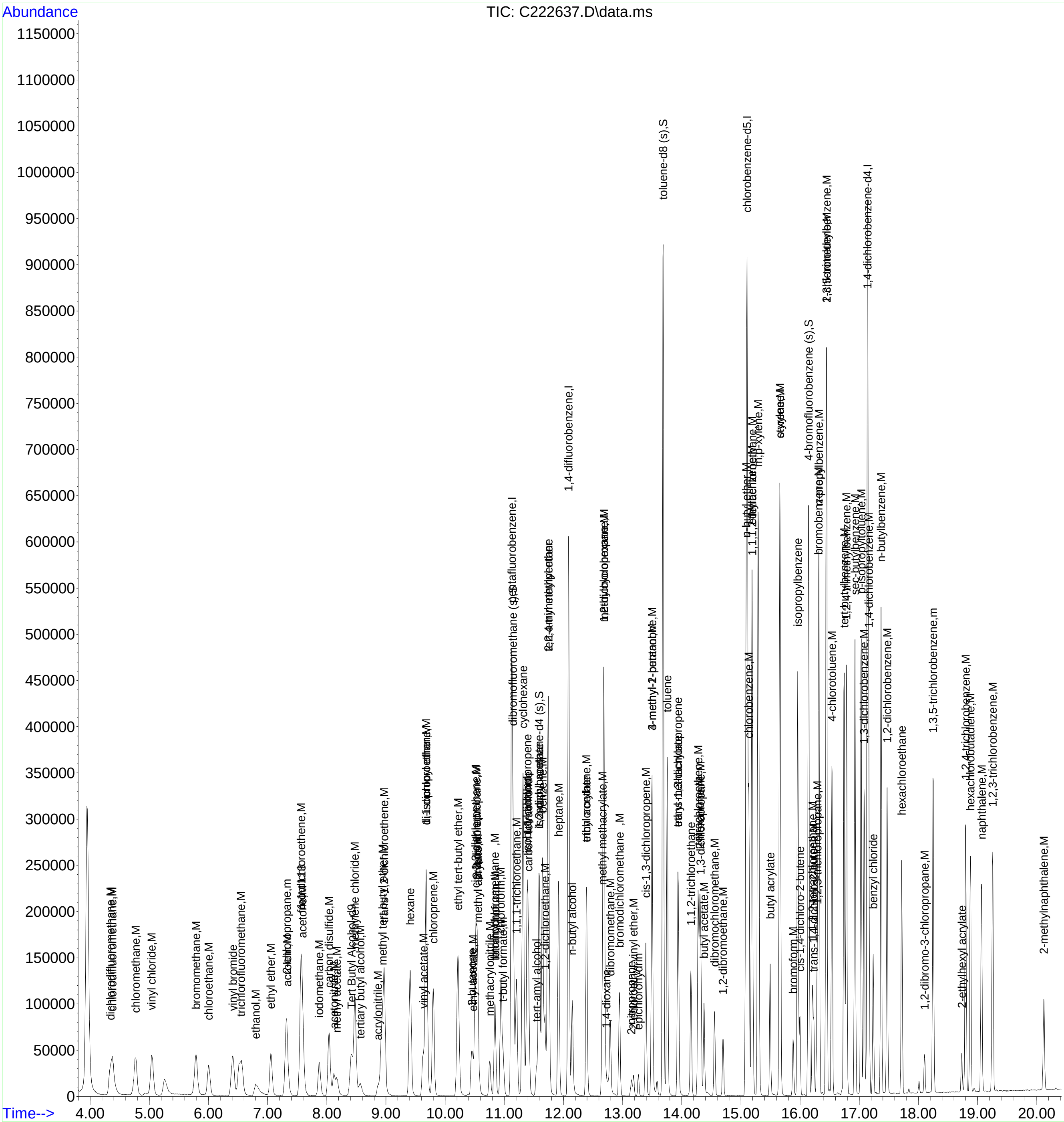
7.7.6

7

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222637.D
Acq On    : 11 Aug 2018   3:49 pm
Operator  : prashanS
Sample    : IC8261-20
Misc      : MS28184,VC8261,5.0,,,,1
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Oct 25 16:31:41 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title  : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration
```



Manual Integration Approval Summary

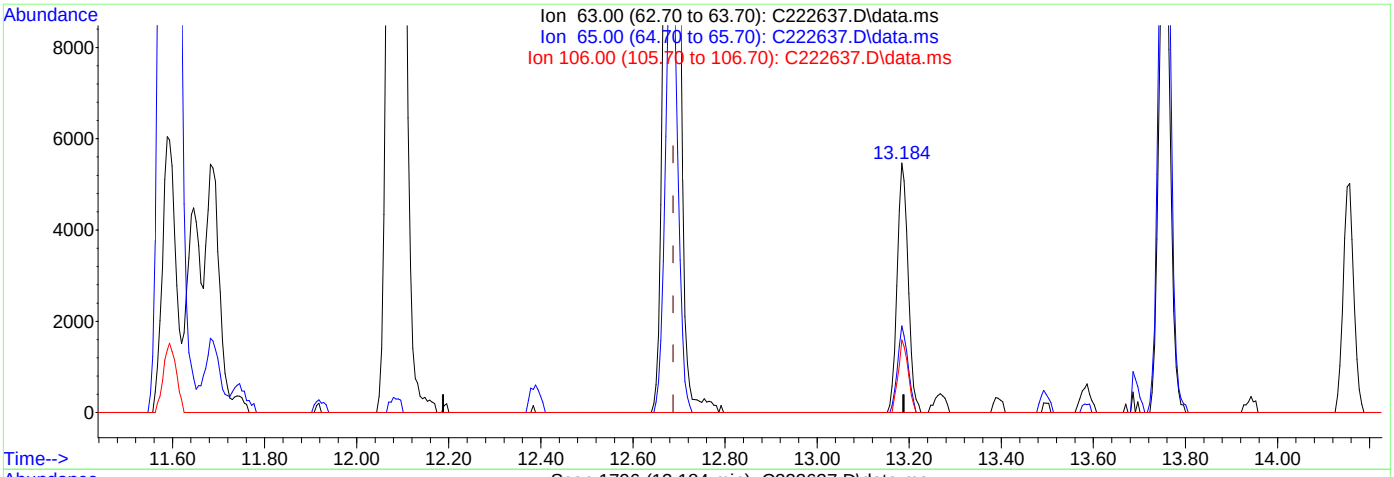
Sample Number:	VC8261-IC8261	**Method:**	SW846 8260C
Lab FileID:	C222637.D	**Analyst approved:**	08/13/18 13:37 Dong, Mei
Injection Time:	08/11/18 15:49	**Supervisor approved:**	08/14/18 16:56 MoHui Huang

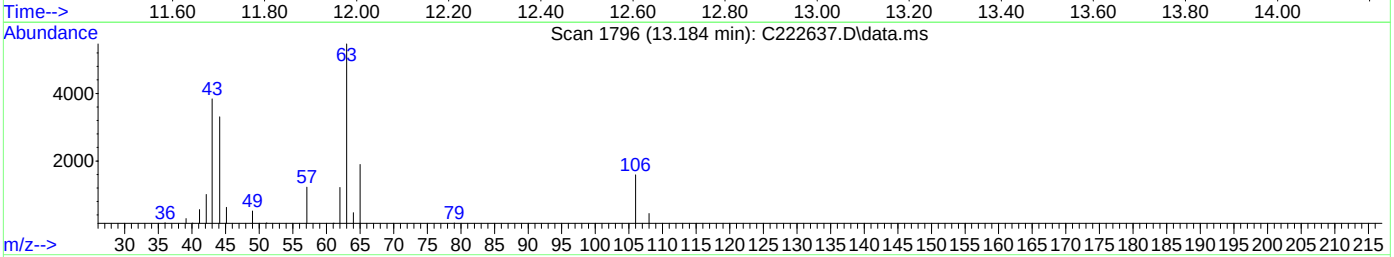
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Chloroethyl vinyl ether	110-75-8		12.69	Missed peak

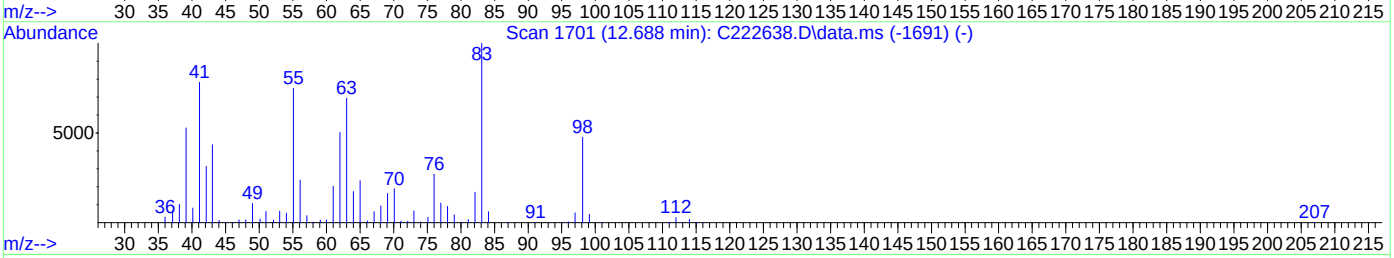
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222637.D
Acq On : 11 Aug 2018 3:49 pm
Operator : prashanS
Sample : IC8261-20
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 13 13:26:48 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: C222637.D\data.ms

(63) 2-chloroethyl vinyl ether (M)

13.184min (+0.496) 15.40ug/L m

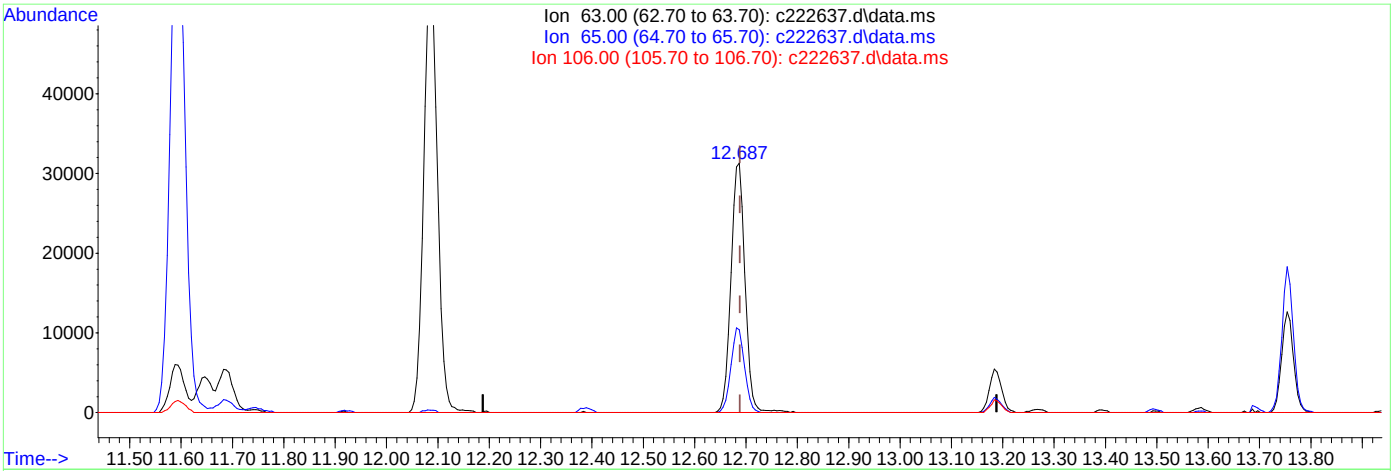
response 9030

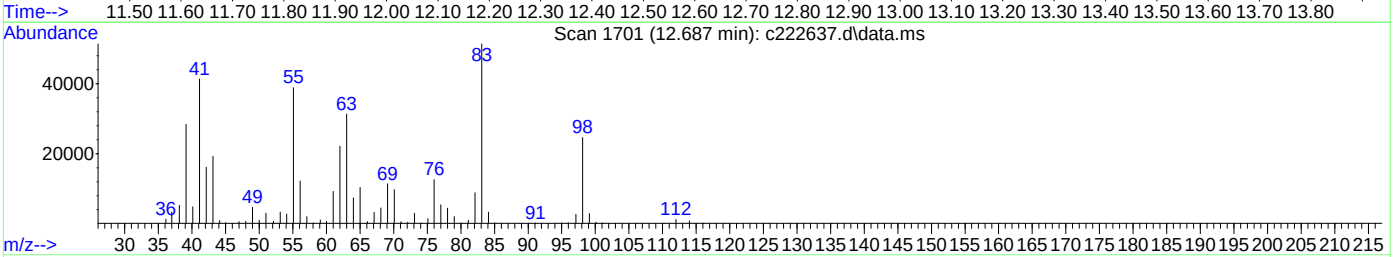
Ion	Exp%	Act%
63.00	100	100
65.00	33.80	34.75
106.00	0.00	29.07
0.00	0.00	0.00

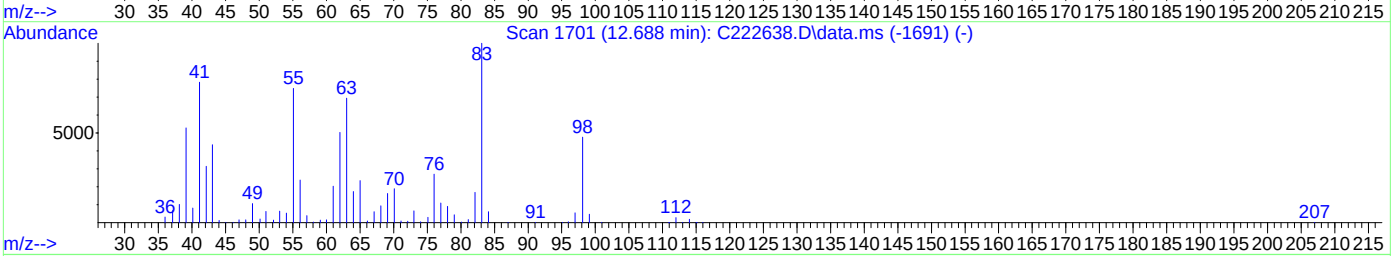
Quantitation Report (Qedit)

Data Path : S:\vc8261\
Data File : c222637.d
Acq On : 11 Aug 2018 3:49 pm
Operator : prashanS
Sample : IC8261-20
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 13 13:26:48 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: c222637.d\data.ms

(63) 2-chloroethyl vinyl ether (M)

12.687min (-0.001) 100.80ug/L

response 59113

Ion	Exp%	Act%
63.00	100	100
65.00	33.80	33.17
106.00	0.00	0.00
0.00	0.00	0.00

C222638.D

Manual Integrations APPROVED (compounds with "m" flag)

MoHui Huang
08/14/18 16:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222638.D
Acq On : 11 Aug 2018 4:18 pm
Operator : prashanS
Sample : ICC8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 25 16:18:18 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.415	65	96610	500.00	ug/L	0.00
5) pentafluorobenzene	11.124	168	333655	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.086	114	516317	50.00	ug/L	0.00
74) chlorobenzene-d5	15.104	117	459070	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.139	152	230669	50.00	ug/L	0.00

System Monitoring Compounds						
44) dibromofluoromethane (s)	11.150	113	137242	49.88	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 99.76%			
53) 1,2-dichloroethane-d4 (s)	11.595	65	138300	48.81	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 97.62%			
75) toluene-d8 (s)	13.687	98	622233	49.71	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.42%			
98) 4-bromofluorobenzene (s)	16.145	174	168452	50.11	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 100.22%			

Target Compounds						Qvalue
2) ethanol	6.794	45	111694	5012.01	ug/L	100
3) tertiary butyl alcohol	8.561	59	63251	255.78	ug/L	100
4) 1,4-dioxane	12.730	88	27087	1384.68	ug/L	100
6) chlorodifluoromethane	4.377	51	147779	47.17	ug/L	100
7) dichlorodifluoromethane	4.346	85	222887	48.93	ug/L	100
8) chloromethane	4.769	50	234559	46.83	ug/L	100
9) vinyl chloride	5.047	62	231348	48.47	ug/L	100
10) bromomethane	5.789	94	147197	48.87	ug/L	100
11) chloroethane	6.004	64	133566	48.15	ug/L	100
12) vinyl bromide	6.412	106	168135	48.98	ug/L	100
13) trichlorofluoromethane	6.553	101	232958	47.21	ug/L	100
14) ethyl ether	7.055	74	77549	48.83	ug/L	100
15) 2-chloropropane	7.317	43	268417	48.17	ug/L	100
16) acrolein	7.343	56	19143	48.59	ug/L	100
17) freon 113	7.578	151	108140	51.46	ug/L	100
18) 1,1-dichloroethene	7.562	61	226984	48.43	ug/L	100
19) acetone	7.589	43	98080	184.18	ug/L	100
20) acetonitrile	8.117	41	111406	458.22	ug/L	100
21) iodomethane	7.871	142	171578	49.76	ug/L	100
22) carbon disulfide	8.038	76	391935	48.92	ug/L	100
23) methylene chloride	8.472	84	149104	42.39	ug/L	100
24) methyl acetate	8.169	43	68575	49.39	ug/L	100
25) methyl tert butyl ether	8.933	73	358542	49.13	ug/L	100
26) trans-1,2-dichloroethene	8.969	61	213916	48.80	ug/L	100
27) hexane	9.409	57	239399	47.92	ug/L	100
28) di-isopropyl ether	9.675	45	488079	49.88	ug/L	100
29) ethyl tert-butyl ether	10.219	59	446974	48.82	ug/L	100
30) 1,1-dichloroethane	9.686	63	272103	49.02	ug/L	100
31) chloroprene	9.796	53	232613	52.01	ug/L	100
32) acrylonitrile	8.859	53	33465	49.38	ug/L	100
33) vinyl acetate	9.628	86	21989	52.92	ug/L	100
34) 2-butanone	10.449	72	44084	212.61	ug/L	100
35) ethyl acetate	10.476	45	14428	51.08	ug/L	100
36) 2,2-dichloropropane	10.538	77	227721	49.39	ug/L	100
37) cis-1,2-dichloroethene	10.512	96	163399	48.96	ug/L	100
38) methyl acrylate	10.559	85	14172	52.67	ug/L	100
39) propionitrile	10.538	54	134568	496.72	ug/L	100
40) bromochloromethane	10.842	128	65549	50.94	ug/L	100
41) tetrahydrofuran	10.852	42	28972	47.26	ug/L	100
42) chloroform	10.941	83	253591	49.10	ug/L	100
43) t-butyl formate	10.978	59	69783	54.35	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222638.D
Acq On : 11 Aug 2018 4:18 pm
Operator : prashanS
Sample : ICC8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 25 16:18:18 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
45) methacrylonitrile	10.753	67	38971	51.44 ug/L	100
46) cyclohexane	11.318	84	250656	49.96 ug/L	100
47) 1,1,1-trichloroethane	11.208	97	227035	49.00 ug/L	100
48) 1,1-dichloropropene	11.386	75	211344	50.06 ug/L	100
49) carbon tetrachloride	11.412	117	194758	50.53 ug/L	100
50) tert-amyl alcohol	11.548	73	29158	231.51 ug/L	100
51) isobutyl alcohol	11.375	43	46451	478.27 ug/L	100
54) isopropyl acetate	11.579	87	24666	50.73 ug/L	100
55) 2,2,4-trimethylpentane	11.746	57	666564	48.63 ug/L	100
56) tert-amyl methyl ether	11.741	73	417083	49.06 ug/L	100
57) benzene	11.647	78	614289	49.26 ug/L	100
58) heptane	11.919	57	141017	49.71 ug/L	100
59) 1,2-dichloroethane	11.689	62	172855	47.37 ug/L	100
60) n-butyl alcohol	12.149	56	160567	2595.98 ug/L	100
61) ethyl acrylate	12.395	55	128532	52.59 ug/L	100
62) trichloroethene	12.390	95	148927	49.21 ug/L	100
63) 2-chloroethyl vinyl ether	13.185	63	20985m	33.44 ug/L	
64) 2-nitropropane	13.153	41	25793	47.86 ug/L	100
65) methylcyclohexane	12.677	83	295124	49.10 ug/L	100
66) methyl methacrylate	12.657	100	27999	54.94 ug/L	100
67) 1,2-dichloropropane	12.688	63	156526	49.89 ug/L	100
68) dibromomethane	12.793	93	73014	49.92 ug/L	100
69) bromodichloromethane	12.949	83	189226	51.68 ug/L	100
70) epichlorohydrin	13.268	57	46656	259.10 ug/L	100
71) cis-1,3-dichloropropene	13.394	75	236504	51.82 ug/L	100
72) 4-methyl-2-pentanone	13.493	58	162468	209.66 ug/L	100
73) 3-methyl-1-butanol	13.504	55	103400	1060.88 ug/L	100
76) toluene	13.755	92	389044	48.86 ug/L	100
77) ethyl methacrylate	13.933	69	151331	53.00 ug/L	100
78) trans-1,3-dichloropropene	13.943	75	200709	49.97 ug/L	100
79) 1,1,2-trichloroethane	14.158	83	89764	49.92 ug/L	100
80) 2-hexanone	14.304	58	154290	208.05 ug/L	100
81) tetrachloroethene	14.278	166	150552	49.11 ug/L	100
82) 1,3-dichloropropane	14.325	76	189601	49.45 ug/L	100
83) butyl acetate	14.377	56	74646	50.30 ug/L	100
84) dibromochloromethane	14.555	129	119229	51.95 ug/L	100
85) 1,2-dibromoethane	14.696	107	108397	50.65 ug/L	100
86) n-butyl ether	15.083	57	736291	51.06 ug/L	100
87) chlorobenzene	15.136	112	408487	48.74 ug/L	100
88) 1,1,1,2-tetrachloroethane	15.198	131	140306	50.63 ug/L	100
89) ethylbenzene	15.188	91	755952	49.47 ug/L	100
90) m,p-xylene	15.293	106	585322	99.66 ug/L	100
91) o-xylene	15.653	91	595554	49.51 ug/L	100
92) styrene	15.664	104	470132	53.04 ug/L	100
93) butyl acrylate	15.496	55	225949	54.42 ug/L	100
94) bromoform	15.884	173	68523	53.35 ug/L	100
95) isopropylbenzene	15.962	105	745397	49.51 ug/L	100
96) cis-1,4-dichloro-2-butene	15.999	88	49475	53.30 ug/L	100
99) bromobenzene	16.307	156	163790	49.43 ug/L	100
100) 1,1,2,2-tetrachloroethane	16.208	83	134394	49.55 ug/L	100
101) trans-1,4-dichloro-2-b...	16.234	53	37112	50.84 ug/L	100
102) 1,2,3-trichloropropane	16.286	110	37694	50.36 ug/L	100
103) n-propylbenzene	16.318	91	901301	49.41 ug/L	100
104) 2-chlorotoluene	16.443	126	176848	49.89 ug/L	100
105) 4-chlorotoluene	16.537	91	512124	49.21 ug/L	100
106) 1,3,5-trimethylbenzene	16.448	105	633412	49.63 ug/L	100
107) tert-butylbenzene	16.746	134	137600	50.41 ug/L	100
108) 1,2,4-trimethylbenzene	16.783	105	626027	49.19 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222638.D
Acq On : 11 Aug 2018 4:18 pm
Operator : prashanS
Sample : ICC8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 25 16:18:18 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

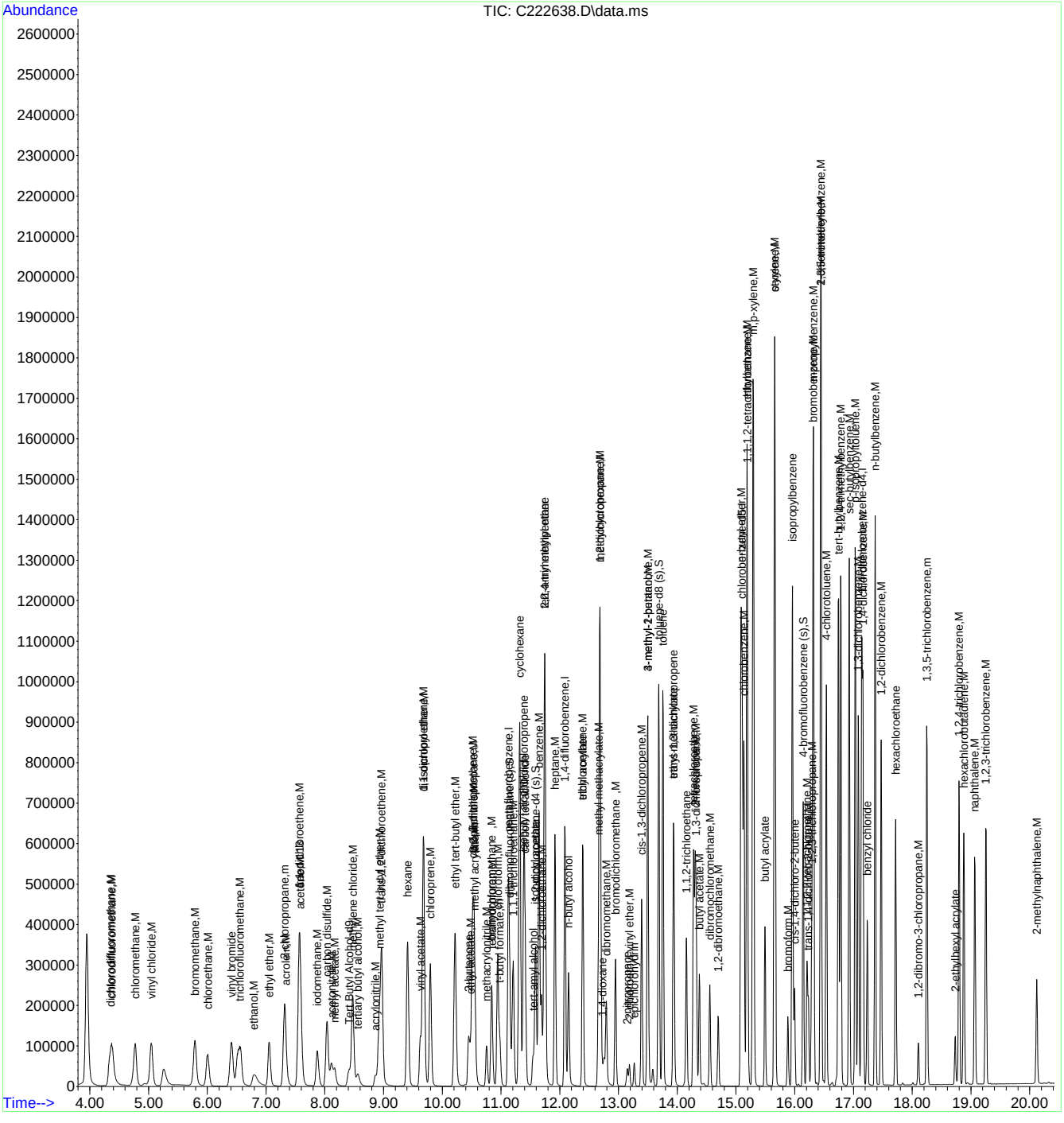
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
109) sec-butylbenzene	16.930	105	829595	49.69 ug/L	100
110) 1,3-dichlorobenzene	17.081	146	327952	48.42 ug/L	100
111) p-isopropyltoluene	17.029	119	693382	49.75 ug/L	100
112) 1,4-dichlorobenzene	17.160	146	324370	47.46 ug/L	100
113) benzyl chloride	17.233	91	265707	50.90 ug/L	100
114) 1,2-dichlorobenzene	17.473	146	300779	48.58 ug/L	100
115) n-butylbenzene	17.369	92	366807	49.28 ug/L	100
116) hexachloroethane	17.719	201	94996	52.94 ug/L	100
117) 1,2-dibromo-3-chloropr...	18.106	157	25534	52.30 ug/L	100
118) 1,3,5-trichlorobenzene	18.248	180	248452	46.50 ug/L	100
120) 2-ethylhexyl acrylate	18.734	70	29503	8.61 ug/L	100
121) 1,2,4-trichlorobenzene	18.797	180	213411	46.92 ug/L	100
122) hexachlorobutadiene	18.880	225	119386	46.47 ug/L	100
123) naphthalene	19.063	128	431245	47.15 ug/L	100
124) 1,2,3-trichlorobenzene	19.257	180	191860	46.68 ug/L	100
125) 2-methylnaphthalene	20.120	142	131125	24.80 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222638.D
Acq On : 11 Aug 2018 4:18 pm
Operator : prashanS
Sample : ICC8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 25 16:18:18 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration



Manual Integration Approval Summary

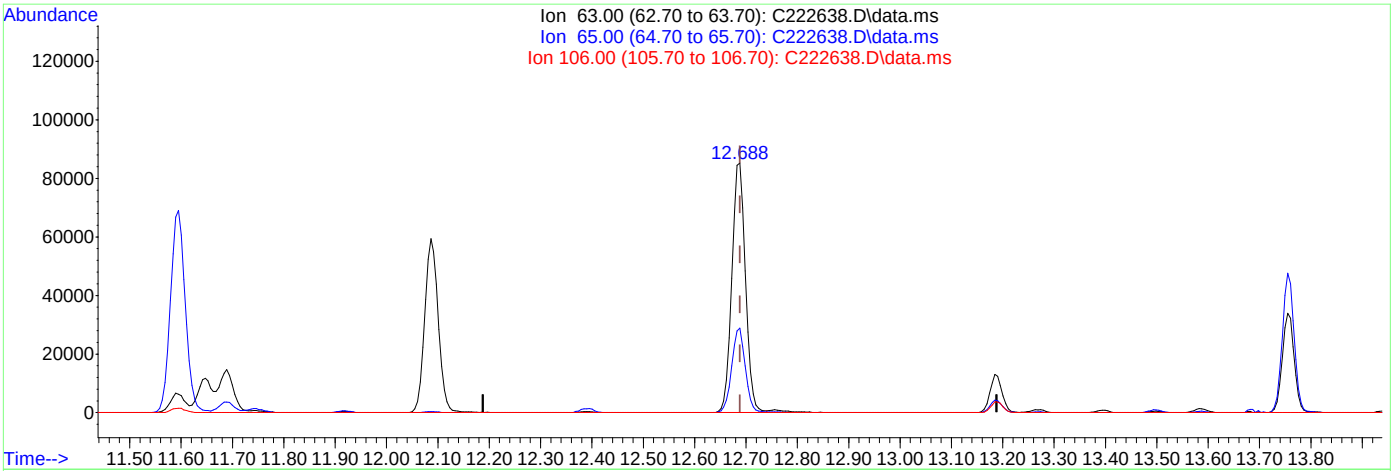
Sample Number:	VC8261-ICC8261	**Method:**	SW846 8260C
Lab FileID:	C222638.D	**Analyst approved:**	08/13/18 13:37 Dong, Mei
Injection Time:	08/11/18 16:18	**Supervisor approved:**	08/14/18 16:56 MoHui Huang

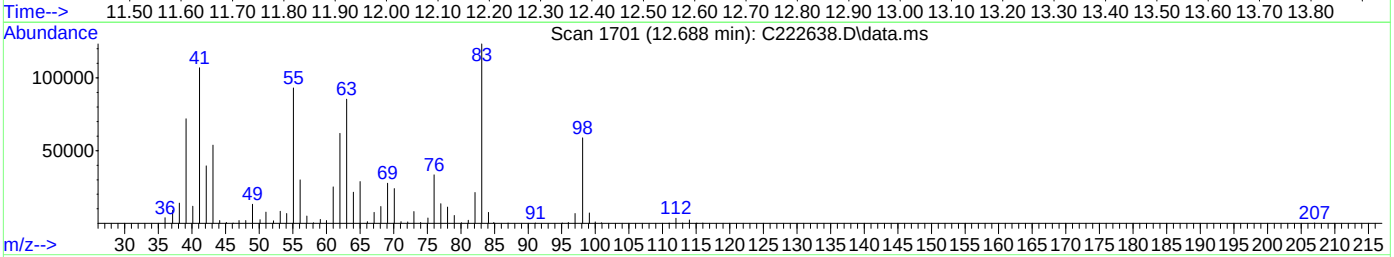
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Chloroethyl vinyl ether	110-75-8		12.69	Missed peak

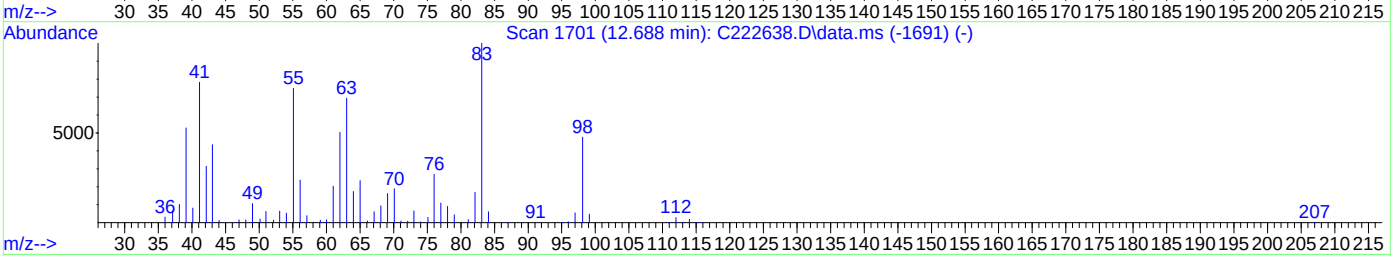
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222638.D
Acq On : 11 Aug 2018 4:18 pm
Operator : prashanS
Sample : ICC8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 13 13:26:59 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: C222638.D\data.ms

(63) 2-chloroethyl vinyl ether (M)

12.688min (0.000) 249.45ug/L

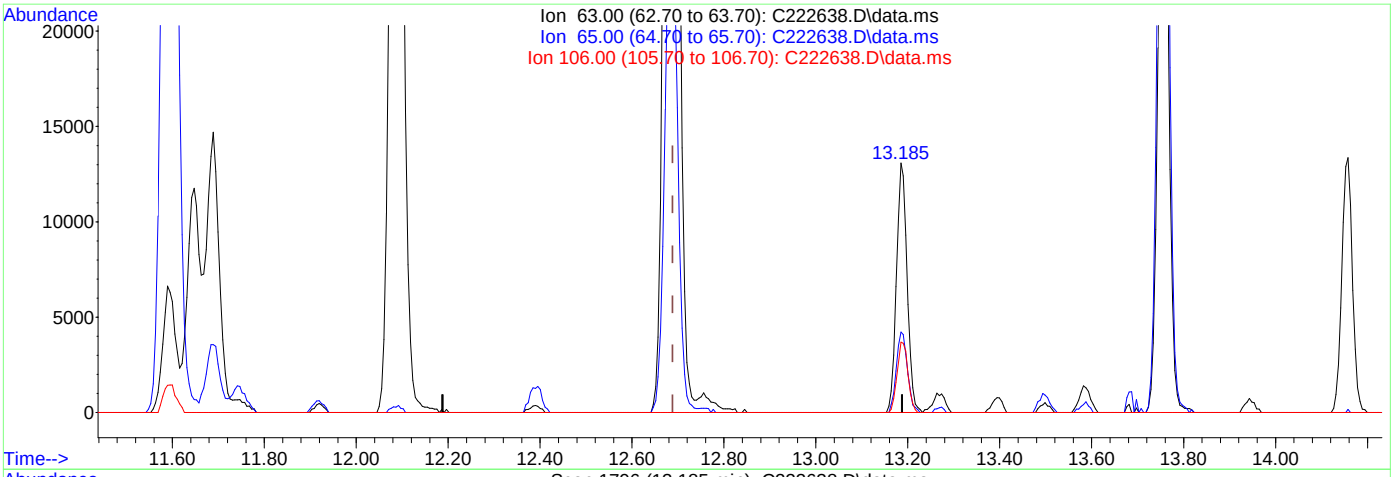
response 156526

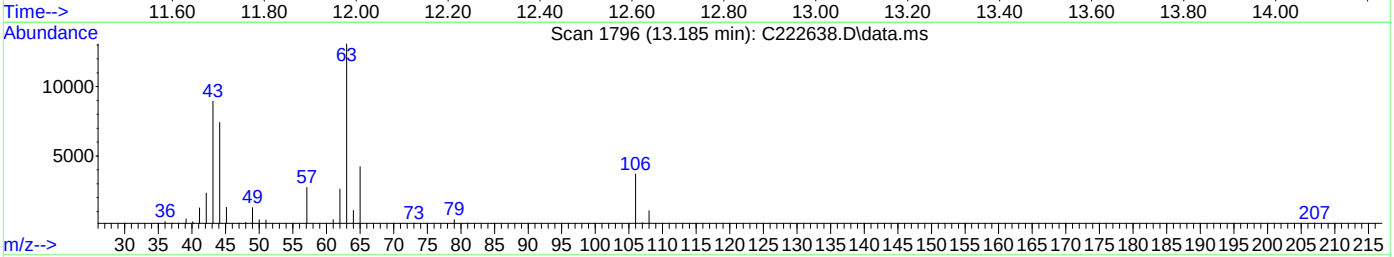
Ion	Exp%	Act%
63.00	100	100
65.00	33.80	33.81
106.00	0.00	0.00
0.00	0.00	0.00

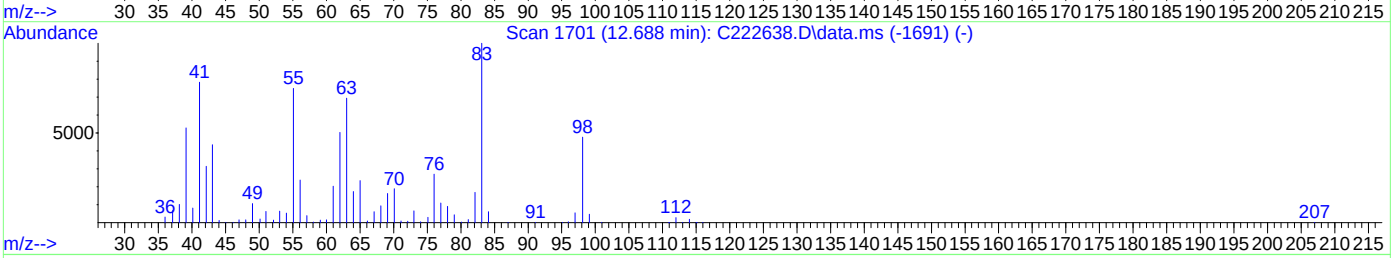
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222638.D
Acq On : 11 Aug 2018 4:18 pm
Operator : prashanS
Sample : ICC8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 13 13:26:59 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: C222638.D\data.ms

(63) 2-chloroethyl vinyl ether (M)

13.185min (+0.497) 33.44ug/L m

response 20985

Ion	Exp%	Act%
63.00	100	100
65.00	33.80	32.24
106.00	0.00	28.24
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
08/14/18 16:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222639.D
Acq On : 11 Aug 2018 4:47 pm
Operator : prashanS
Sample : IC8261-100
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 25 16:29:30 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.413	65	108752	500.00	ug/L	0.00
5) pentafluorobenzene	11.128	168	355450	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.090	114	551032	50.00	ug/L	0.00
74) chlorobenzene-d5	15.103	117	490718	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.142	152	253383	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.149	113	148085	50.52	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 101.04%			
53) 1,2-dichloroethane-d4 (s)	11.593	65	150092	49.64	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 99.28%			
75) toluene-d8 (s)	13.685	98	661869	49.47	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.94%			
98) 4-bromofluorobenzene (s)	16.144	174	180827	48.97	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 97.94%			

Target Compounds						Qvalue
2) ethanol	6.782	45	249122	9930.68	ug/L	100
3) tertiary butyl alcohol	8.560	59	142460	511.78	ug/L	98
4) 1,4-dioxane	12.728	88	57894	2629.09	ug/L	96
6) chlorodifluoromethane	4.381	51	311869	93.44	ug/L	98
7) dichlorodifluoromethane	4.344	85	464864	95.80	ug/L	97
8) chloromethane	4.768	50	497630	93.25	ug/L	99
9) vinyl chloride	5.045	62	484504	95.28	ug/L	99
10) bromomethane	5.783	94	315917	98.45	ug/L	99
11) chloroethane	6.002	64	286927	97.10	ug/L	98
12) vinyl bromide	6.405	106	357389	97.74	ug/L	99
13) trichlorofluoromethane	6.557	101	488805	92.98	ug/L	100
14) ethyl ether	7.054	74	168047	99.32	ug/L	99
15) 2-chloropropane	7.315	43	565575	95.28	ug/L	99
16) acrolein	7.336	56	43678	104.06	ug/L	90
17) freon 113	7.577	151	228626	102.12	ug/L	99
18) 1,1-dichloroethene	7.561	61	481508	96.43	ug/L	99
19) acetone	7.587	43	213982	377.19	ug/L	98
20) acetonitrile	8.110	41	241896	933.92	ug/L	100
21) iodomethane	7.869	142	371438	101.11	ug/L	99
22) carbon disulfide	8.037	76	834449	97.76	ug/L	100
23) methylene chloride	8.476	84	314924	84.05	ug/L	99
24) methyl acetate	8.168	43	146865	99.30	ug/L	98
25) methyl tert butyl ether	8.936	73	791882	101.86	ug/L	100
26) trans-1,2-dichloroethene	8.968	61	452998	97.01	ug/L	99
27) hexane	9.407	57	495483	93.10	ug/L	97
28) di-isopropyl ether	9.674	45	1060111	101.69	ug/L	99
29) ethyl tert-butyl ether	10.218	59	980642	100.53	ug/L	99
30) 1,1-dichloroethane	9.684	63	576576	97.49	ug/L	99
31) chloroprene	9.794	53	494390	103.76	ug/L	99
32) acrylonitrile	8.858	53	74184	102.75	ug/L	93
33) vinyl acetate	9.622	86	48096	108.66	ug/L	99
34) 2-butanone	10.448	72	97309	440.52	ug/L	98
35) ethyl acetate	10.474	45	31966	106.24	ug/L	95
36) 2,2-dichloropropane	10.537	77	481343	98.00	ug/L	99
37) cis-1,2-dichloroethene	10.511	96	348553	98.04	ug/L	98
38) methyl acrylate	10.563	85	32163	112.21	ug/L #	84
39) propionitrile	10.537	54	298134	1033.00	ug/L	99
40) bromochloromethane	10.840	128	142344	103.83	ug/L	98
41) tetrahydrofuran	10.851	42	63705	97.55	ug/L	98
42) chloroform	10.940	83	538090	97.79	ug/L	99
43) t-butyl formate	10.976	59	152535	111.52	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222639.D
Acq On : 11 Aug 2018 4:47 pm
Operator : prashanS
Sample : IC8261-100
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 25 16:29:30 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
45) methacrylonitrile	10.751	67	86498	107.18 ug/L	97
46) cyclohexane	11.316	84	528169	98.83 ug/L	100
47) 1,1,1-trichloroethane	11.206	97	489202	99.11 ug/L	99
48) 1,1-dichloropropene	11.389	75	445304	99.01 ug/L	100
49) carbon tetrachloride	11.410	117	413074	100.59 ug/L	99
50) tert-amyl alcohol	11.546	73	68351	509.43 ug/L	96
51) isobutyl alcohol	11.374	43	105086	1015.65 ug/L	97
54) isopropyl acetate	11.583	87	55001	105.99 ug/L #	91
55) 2,2,4-trimethylpentane	11.745	57	1442959	98.65 ug/L	99
56) tert-amyl methyl ether	11.740	73	923293	101.76 ug/L	98
57) benzene	11.646	78	1294800	97.28 ug/L	99
58) heptane	11.918	57	294647	97.32 ug/L	99
59) 1,2-dichloroethane	11.687	62	370604	95.16 ug/L	100
60) n-butyl alcohol	12.148	56	360732	5464.74 ug/L	98
61) ethyl acrylate	12.394	55	290049	111.20 ug/L	99
62) trichloroethene	12.388	95	315703	97.75 ug/L	97
63) 2-chloroethyl vinyl ether	13.188	63	65471m	97.76 ug/L	
64) 2-nitropropane	13.152	41	57964	100.77 ug/L	97
65) methylcyclohexane	12.681	83	635934	99.13 ug/L	98
66) methyl methacrylate	12.655	100	62097	114.17 ug/L	97
67) 1,2-dichloropropane	12.686	63	339519	101.40 ug/L	99
68) dibromomethane	12.791	93	157647	100.99 ug/L	99
69) bromodichloromethane	12.948	83	408990	104.67 ug/L	99
70) epichlorohydrin	13.267	57	102789	534.88 ug/L	99
71) cis-1,3-dichloropropene	13.392	75	509121	104.52 ug/L	100
72) 4-methyl-2-pentanone	13.497	58	369208	446.43 ug/L	98
73) 3-methyl-1-butanol	13.502	55	242172	2328.15 ug/L	99
76) toluene	13.759	92	823596	96.77 ug/L	97
77) ethyl methacrylate	13.931	69	342041	112.06 ug/L	99
78) trans-1,3-dichloropropene	13.942	75	435873	101.52 ug/L	98
79) 1,1,2-trichloroethane	14.156	83	193300	100.57 ug/L	98
80) 2-hexanone	14.303	58	348215	439.27 ug/L	99
81) tetrachloroethene	14.276	166	318519	97.20 ug/L	100
82) 1,3-dichloropropane	14.323	76	410422	100.14 ug/L	99
83) butyl acetate	14.376	56	165224	104.15 ug/L	97
84) dibromochloromethane	14.554	129	263798	107.53 ug/L	98
85) 1,2-dibromoethane	14.700	107	234842	102.66 ug/L	99
86) n-butyl ether	15.082	57	1569406	101.82 ug/L	100
87) chlorobenzene	15.134	112	871199	97.25 ug/L	100
88) 1,1,1,2-tetrachloroethane	15.197	131	311632	105.19 ug/L	99
89) ethylbenzene	15.186	91	1615855	98.92 ug/L	100
90) m,p-xylene	15.296	106	1249656	199.05 ug/L	100
91) o-xylene	15.657	91	1305667	101.53 ug/L	99
92) styrene	15.668	104	1040033	109.77 ug/L	97
93) butyl acrylate	15.495	55	522442	117.71 ug/L	99
94) bromoform	15.882	173	152912	111.36 ug/L	98
95) isopropylbenzene	15.960	105	1605653	99.77 ug/L	99
96) cis-1,4-dichloro-2-butene	15.997	88	110071	110.93 ug/L	99
99) bromobenzene	16.311	156	360403	99.01 ug/L	98
100) 1,1,2,2-tetrachloroethane	16.211	83	296248	99.43 ug/L	99
101) trans-1,4-dichloro-2-b...	16.232	53	80996	101.02 ug/L	99
102) 1,2,3-trichloropropane	16.290	110	82889	100.81 ug/L #	75
103) n-propylbenzene	16.321	91	1937654	96.71 ug/L	99
104) 2-chlorotoluene	16.442	126	386479	99.26 ug/L	99
105) 4-chlorotoluene	16.541	91	1103699	96.56 ug/L	98
106) 1,3,5-trimethylbenzene	16.447	105	1402629	100.05 ug/L	99
107) tert-butylbenzene	16.745	134	298097	99.43 ug/L	95
108) 1,2,4-trimethylbenzene	16.787	105	1376877	98.49 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222639.D
Acq On : 11 Aug 2018 4:47 pm
Operator : prashanS
Sample : IC8261-100
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 25 16:29:30 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

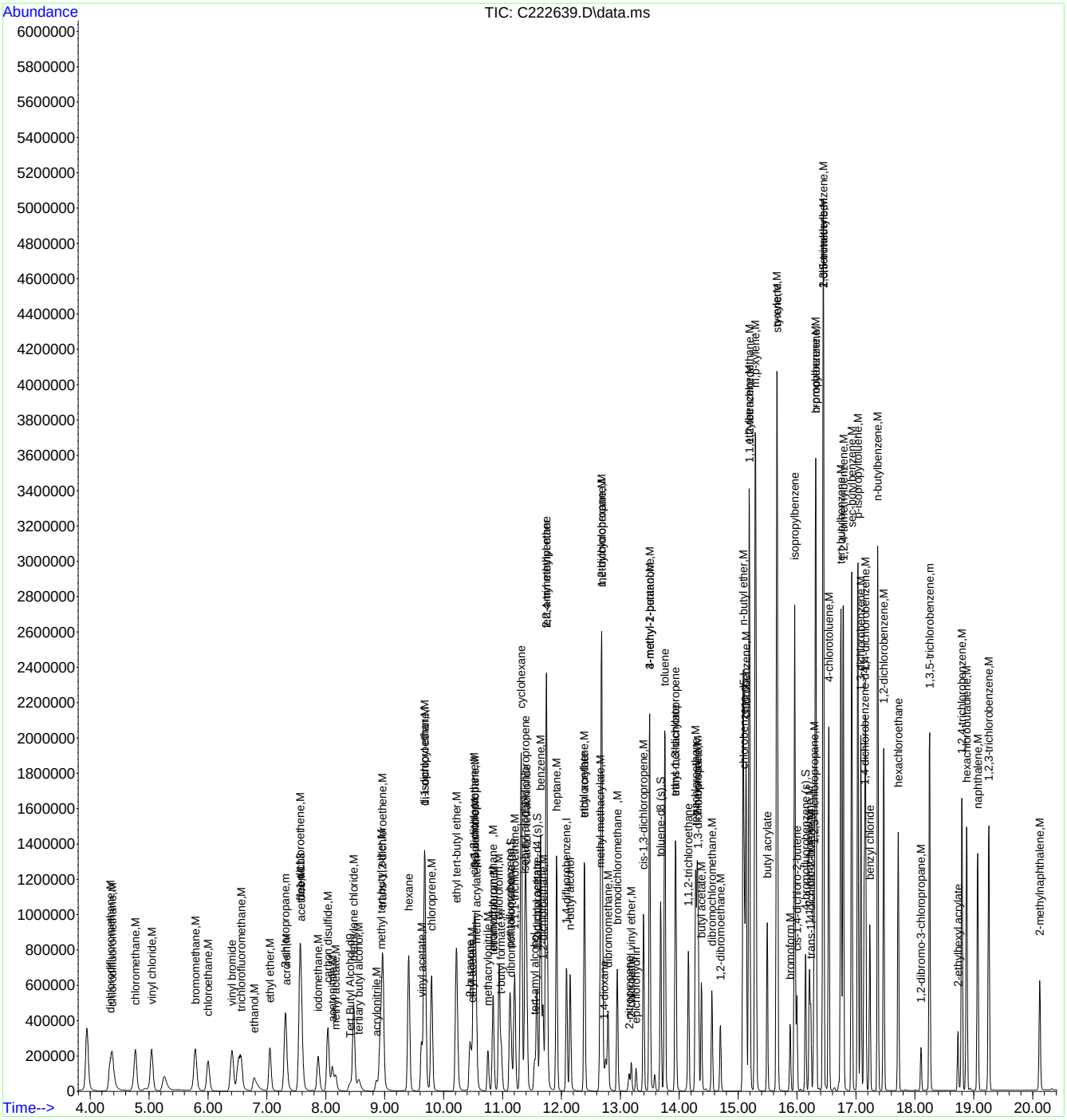
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) sec-butylbenzene	16.928	105	1800421	98.18	ug/L	99
110) 1,3-dichlorobenzene	17.085	146	718809	96.61	ug/L	98
111) p-isopropyltoluene	17.033	119	1511152	98.71	ug/L	99
112) 1,4-dichlorobenzene	17.163	146	721343	96.08	ug/L	99
113) benzyl chloride	17.237	91	596263	103.98	ug/L	97
114) 1,2-dichlorobenzene	17.472	146	665302	97.83	ug/L	100
115) n-butylbenzene	17.367	92	808208	98.86	ug/L	98
116) hexachloroethane	17.718	201	214715	108.93	ug/L	98
117) 1,2-dibromo-3-chloropr...	18.105	157	58734	109.52	ug/L	97
118) 1,3,5-trichlorobenzene	18.251	180	563171	95.95	ug/L	98
120) 2-ethylhexyl acrylate	18.732	70	79668	20.12	ug/L	99
121) 1,2,4-trichlorobenzene	18.800	180	484327	96.94	ug/L	99
122) hexachlorobutadiene	18.879	225	269972	95.66	ug/L	99
123) naphthalene	19.067	128	1004956	100.03	ug/L	100
124) 1,2,3-trichlorobenzene	19.255	180	441415	97.76	ug/L	98
125) 2-methylnaphthalene	20.118	142	327834	56.45	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222639.D
Acq On : 11 Aug 2018 4:47 pm
Operator : prashanS
Sample : IC8261-100
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 25 16:29:30 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration



Manual Integration Approval Summary

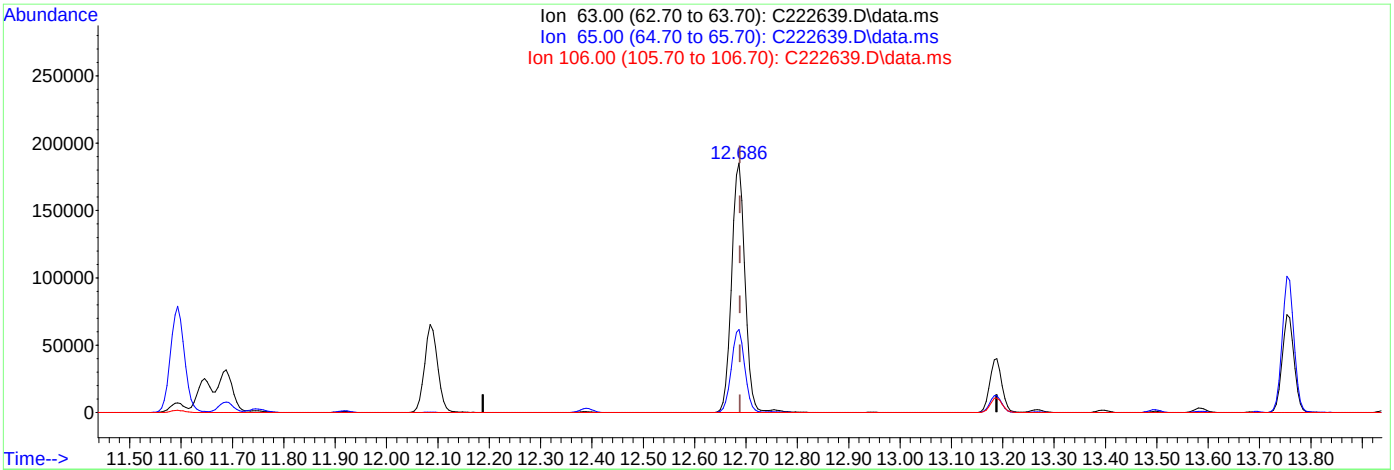
Sample Number:	VC8261-IC8261	**Method:**	SW846 8260C
Lab FileID:	C222639.D	**Analyst approved:**	08/13/18 13:37 Dong, Mei
Injection Time:	08/11/18 16:47	**Supervisor approved:**	08/14/18 16:56 MoHui Huang

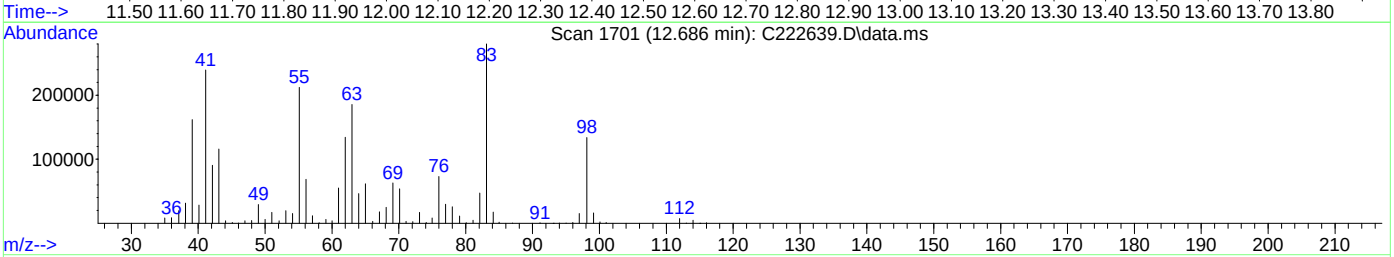
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Chloroethyl vinyl ether	110-75-8		12.69	Missed peak

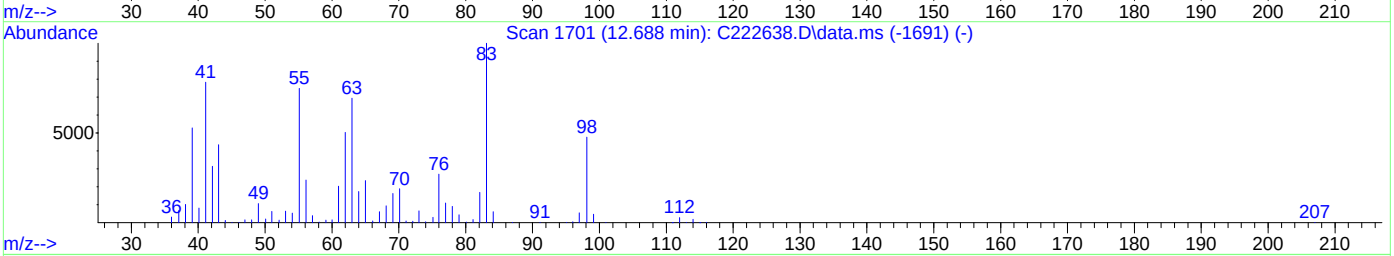
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222639.D
Acq On : 11 Aug 2018 4:47 pm
Operator : prashanS
Sample : IC8261-100
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 13 13:27:07 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: C222639.D\data.ms

(63) 2-chloroethyl vinyl ether (M)

12.686min (-0.002) 506.99ug/L

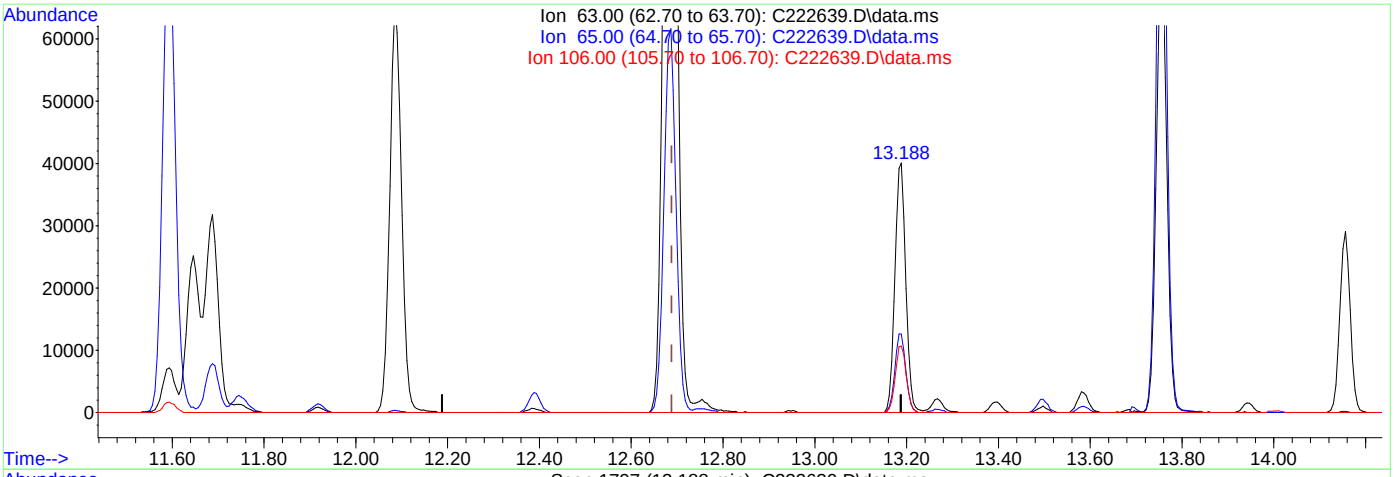
response 339519

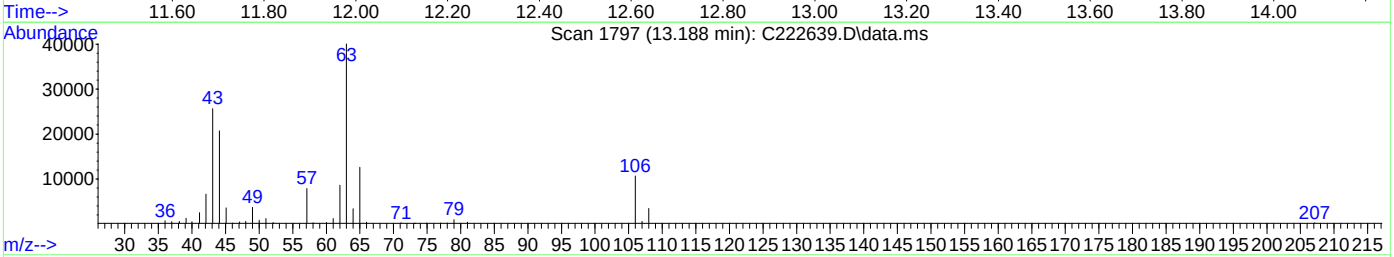
Ion	Exp%	Act%
63.00	100	100
65.00	33.80	33.25
106.00	0.00	0.00
0.00	0.00	0.00

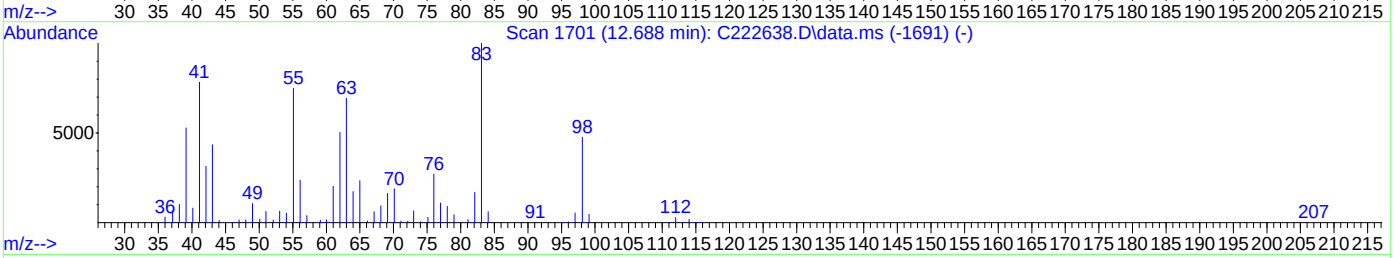
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222639.D
Acq On : 11 Aug 2018 4:47 pm
Operator : prashanS
Sample : IC8261-100
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 25 16:29:30 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: C222639.D\data.ms

(63) 2-chloroethyl vinyl ether (M)

13.188min (+0.501) 97.76ug/L m

response 65471

Ion	Exp%	Act%
63.00	100	100
65.00	33.80	31.51
106.00	0.00	26.65
0.00	0.00	0.00

Manual Integrations
APPROVED
(compounds with "m" flag)
MoHui Huang
08/14/18 16:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222640.D
Acq On : 11 Aug 2018 5:16 pm
Operator : prashanS
Sample : IC8261-200
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 25 16:30:33 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.418	65	110218	500.00	ug/L	0.00
5) pentafluorobenzene	11.127	168	369123	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.089	114	570201	50.00	ug/L	0.00
74) chlorobenzene-d5	15.107	117	514916	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.141	152	271198	50.00	ug/L	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	11.148	113	154920	50.89	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 101.78%			
53) 1,2-dichloroethane-d4 (s)	11.592	65	155977	49.85	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 99.70%			
75) toluene-d8 (s)	13.684	98	684218	48.74	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.48%			
98) 4-bromofluorobenzene (s)	16.148	174	193652	48.99	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 97.98%			

Target Compounds

						Qvalue
2) ethanol	6.786	45	507054	19943.70	ug/L	100
3) tertiary butyl alcohol	8.564	59	286132	1014.23	ug/L	98
4) 1,4-dioxane	12.727	88	116365	5214.10	ug/L	96
6) chlorodifluoromethane	4.385	51	625521	180.48	ug/L	98
7) dichlorodifluoromethane	4.343	85	925175	183.59	ug/L	97
8) chloromethane	4.772	50	999852	180.43	ug/L	99
9) vinyl chloride	5.044	62	971233	183.92	ug/L	99
10) bromomethane	5.787	94	652502	195.82	ug/L	97
11) chloroethane	6.001	64	587392	191.41	ug/L	99
12) vinyl bromide	6.409	106	732208	192.82	ug/L	98
13) trichlorofluoromethane	6.556	101	997869	182.79	ug/L	99
14) ethyl ether	7.052	74	342134	194.71	ug/L	97
15) 2-chloropropane	7.314	43	1154349	187.27	ug/L	100
16) acrolein	7.340	56	85202	195.47	ug/L	87
17) freon 113	7.575	151	466202	200.52	ug/L	99
18) 1,1-dichloroethene	7.560	61	991995	191.31	ug/L	99
19) acetone	7.586	43	441768	749.87	ug/L	99
20) acetonitrile	8.114	41	484551	1801.47	ug/L	100
21) iodomethane	7.874	142	765524	200.68	ug/L	99
22) carbon disulfide	8.036	76	1697650	191.52	ug/L	99
23) methylene chloride	8.475	84	639852	164.44	ug/L	99
24) methyl acetate	8.172	43	298577	194.39	ug/L	99
25) methyl tert butyl ether	8.935	73	1613002	199.79	ug/L	99
26) trans-1,2-dichloroethene	8.967	61	933454	192.49	ug/L	100
27) hexane	9.411	57	991142	179.33	ug/L	98
28) di-isopropyl ether	9.678	45	2218086	204.89	ug/L	99
29) ethyl tert-butyl ether	10.222	59	2017023	199.12	ug/L	100
30) 1,1-dichloroethane	9.683	63	1194553	194.50	ug/L	99
31) chloroprene	9.798	53	1027333	207.63	ug/L	98
32) acrylonitrile	8.857	53	149058	198.80	ug/L	96
33) vinyl acetate	9.626	86	97356	211.81	ug/L	99
34) 2-butanone	10.447	72	199523	869.79	ug/L	97
35) ethyl acetate	10.473	45	64327	205.87	ug/L #	77
36) 2,2-dichloropropane	10.541	77	992929	194.66	ug/L	99
37) cis-1,2-dichloroethene	10.510	96	721164	195.34	ug/L	100
38) methyl acrylate	10.562	85	66697	224.08	ug/L #	88
39) propionitrile	10.541	54	603240	2012.73	ug/L	90
40) bromochloromethane	10.839	128	292852	205.71	ug/L	98
41) tetrahydrofuran	10.850	42	128871	190.02	ug/L	98
42) chloroform	10.944	83	1119315	195.89	ug/L	99
43) t-butyl formate	10.980	59	313848	220.96	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222640.D
Acq On : 11 Aug 2018 5:16 pm
Operator : prashanS
Sample : IC8261-200
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 25 16:30:33 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
45) methacrylonitrile	10.755	67	176075	210.10 ug/L	98
46) cyclohexane	11.315	84	1063400	191.60 ug/L	97
47) 1,1,1-trichloroethane	11.205	97	1002991	195.68 ug/L	99
48) 1,1-dichloropropene	11.388	75	924897	198.02 ug/L	100
49) carbon tetrachloride	11.409	117	862218	202.19 ug/L	99
50) tert-amyl alcohol	11.545	73	138000	990.44 ug/L	96
51) isobutyl alcohol	11.378	43	224978	2093.86 ug/L	97
54) isopropyl acetate	11.582	87	113081	210.58 ug/L #	92
55) 2,2,4-trimethylpentane	11.749	57	2901323	191.68 ug/L	98
56) tert-amyl methyl ether	11.744	73	1919181	204.41 ug/L	99
57) benzene	11.645	78	2672328	194.03 ug/L	98
58) heptane	11.916	57	589882	188.29 ug/L	98
59) 1,2-dichloroethane	11.686	62	765696	190.00 ug/L	99
60) n-butyl alcohol	12.152	56	734851	10758.03 ug/L	98
61) ethyl acrylate	12.392	55	598610	221.79 ug/L	100
62) trichloroethene	12.392	95	664246	198.75 ug/L	100
63) 2-chloroethyl vinyl ether	13.187	63	80484m	116.14 ug/L	
64) 2-nitropropane	13.151	41	115442	193.95 ug/L	95
65) methylcyclohexane	12.680	83	1297771	195.49 ug/L	98
66) methyl methacrylate	12.654	100	128028	227.47 ug/L	91
67) 1,2-dichloropropane	12.685	63	709258	204.70 ug/L	98
68) dibromomethane	12.790	93	322476	199.63 ug/L	100
69) bromodichloromethane	12.947	83	852794	210.91 ug/L	99
70) epichlorohydrin	13.266	57	207048	1041.18 ug/L	99
71) cis-1,3-dichloropropene	13.391	75	1041760	206.68 ug/L	99
72) 4-methyl-2-pentanone	13.496	58	756826	884.37 ug/L	97
73) 3-methyl-1-butanol	13.501	55	501703	4661.03 ug/L	98
76) toluene	13.758	92	1701645	190.55 ug/L	97
77) ethyl methacrylate	13.930	69	715967	223.55 ug/L	99
78) trans-1,3-dichloropropene	13.941	75	903331	200.51 ug/L	99
79) 1,1,2-trichloroethane	14.155	83	396328	196.50 ug/L	97
80) 2-hexanone	14.301	58	707532	850.60 ug/L	100
81) tetrachloroethene	14.281	166	656346	190.89 ug/L	99
82) 1,3-dichloropropane	14.322	76	835720	194.32 ug/L	99
83) butyl acetate	14.375	56	335217	201.38 ug/L	98
84) dibromochloromethane	14.552	129	550069	213.68 ug/L	99
85) 1,2-dibromoethane	14.699	107	481701	200.67 ug/L	100
86) n-butyl ether	15.086	57	3260822	201.62 ug/L	98
87) chlorobenzene	15.133	112	1800268	191.53 ug/L	99
88) 1,1,1,2-tetrachloroethane	15.196	131	660182	212.37 ug/L	100
89) ethylbenzene	15.185	91	3391407	197.87 ug/L	99
90) m,p-xylene	15.295	106	2619908	397.69 ug/L	99
91) o-xylene	15.656	91	2782922	206.24 ug/L	99
92) styrene	15.666	104	2225386	223.84 ug/L	99
93) butyl acrylate	15.494	55	1103915	237.04 ug/L	100
94) bromoform	15.881	173	327740	227.47 ug/L	99
95) isopropylbenzene	15.959	105	3309232	195.96 ug/L	98
96) cis-1,4-dichloro-2-butene	15.996	88	234954	225.67 ug/L	99
99) bromobenzene	16.310	156	773327	198.50 ug/L	98
100) 1,1,2,2-tetrachloroethane	16.210	83	607515	190.51 ug/L	100
101) trans-1,4-dichloro-2-b...	16.231	53	171925	200.34 ug/L	100
102) 1,2,3-trichloropropane	16.289	110	171533	194.91 ug/L #	79
103) n-propylbenzene	16.320	91	4048800	188.80 ug/L	98
104) 2-chlorotoluene	16.446	126	828251	198.74 ug/L	96
105) 4-chlorotoluene	16.540	91	2356449	192.61 ug/L	98
106) 1,3,5-trimethylbenzene	16.446	105	2977994	198.46 ug/L	99
107) tert-butylbenzene	16.744	134	625098	194.80 ug/L	95
108) 1,2,4-trimethylbenzene	16.786	105	2890317	193.18 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222640.D
Acq On : 11 Aug 2018 5:16 pm
Operator : prashanS
Sample : IC8261-200
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 25 16:30:33 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration

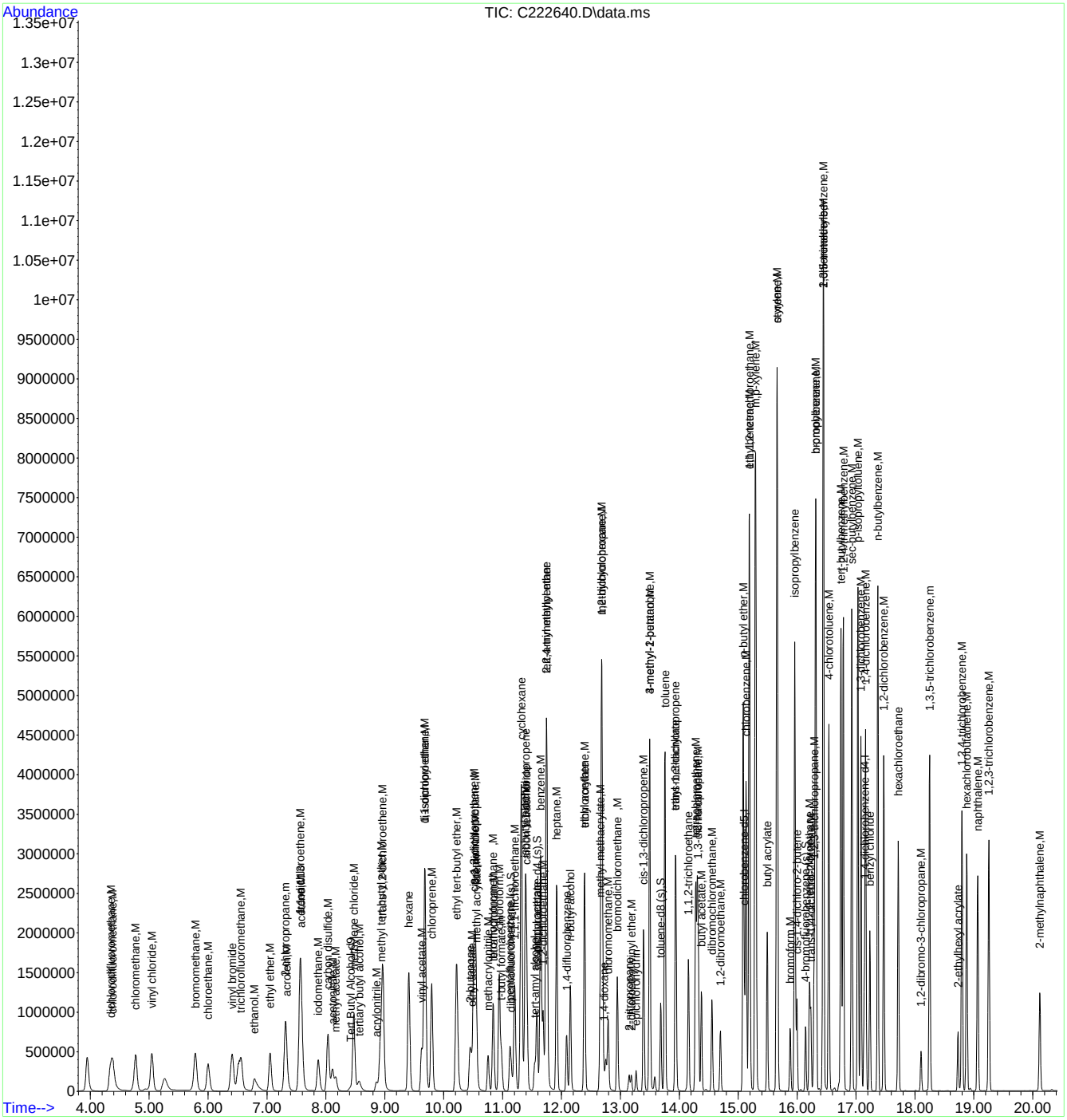
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
109) sec-butylbenzene	16.927	105	3675537	187.26 ug/L	99
110) 1,3-dichlorobenzene	17.084	146	1539304	193.29 ug/L	99
111) p-isopropyltoluene	17.032	119	3112346	189.95 ug/L	97
112) 1,4-dichlorobenzene	17.162	146	1537061	191.27 ug/L	99
113) benzyl chloride	17.236	91	1255985	204.64 ug/L	98
114) 1,2-dichlorobenzene	17.471	146	1413714	194.22 ug/L	99
115) n-butylbenzene	17.372	92	1677365	191.69 ug/L	97
116) hexachloroethane	17.722	201	449836	213.21 ug/L	96
117) 1,2-dibromo-3-chloropr...	18.104	157	122167	212.83 ug/L	98
118) 1,3,5-trichlorobenzene	18.250	180	1153605	183.64 ug/L	99
120) 2-ethylhexyl acrylate	18.731	70	173899	40.28 ug/L	100
121) 1,2,4-trichlorobenzene	18.799	180	1000037	187.01 ug/L	99
122) hexachlorobutadiene	18.878	225	541300	179.19 ug/L	98
123) naphthalene	19.066	128	2018064	187.68 ug/L	99
124) 1,2,3-trichlorobenzene	19.254	180	900097	186.26 ug/L	99
125) 2-methylnaphthalene	20.123	142	662669	106.61 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222640.D
Acq On : 11 Aug 2018 5:16 pm
Operator : prashanS
Sample : IC8261-200
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 25 16:30:33 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration



Manual Integration Approval Summary

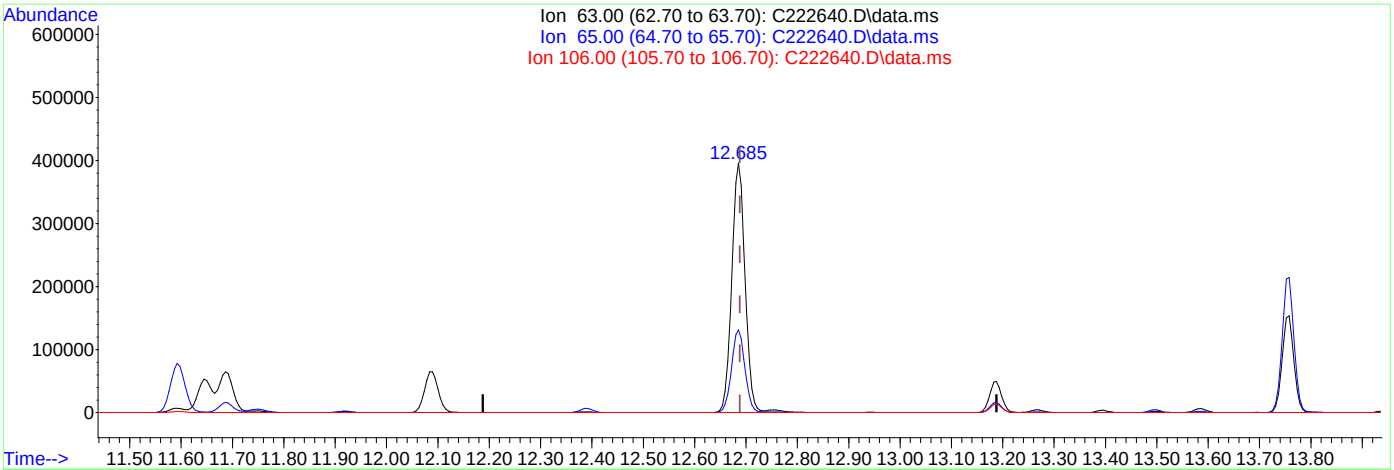
Sample Number:	VC8261-IC8261	**Method:**	SW846 8260C
Lab FileID:	C222640.D	**Analyst approved:**	08/13/18 13:37 Dong, Mei
Injection Time:	08/11/18 17:16	**Supervisor approved:**	08/14/18 16:56 MoHui Huang

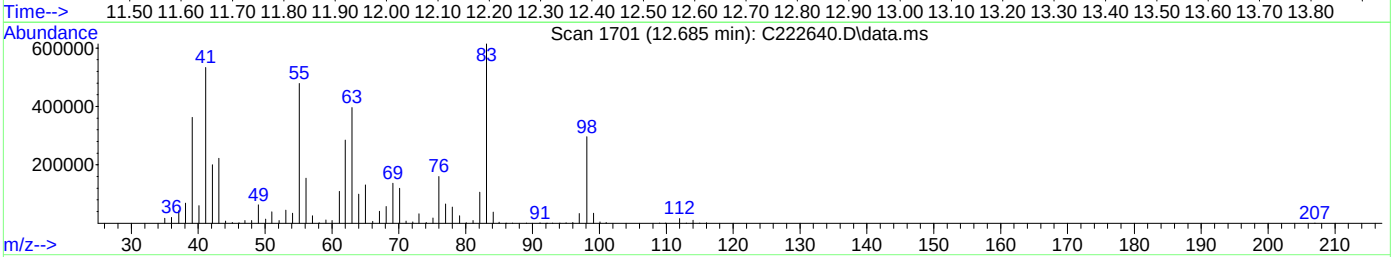
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Chloroethyl vinyl ether	110-75-8		12.69	Missed peak

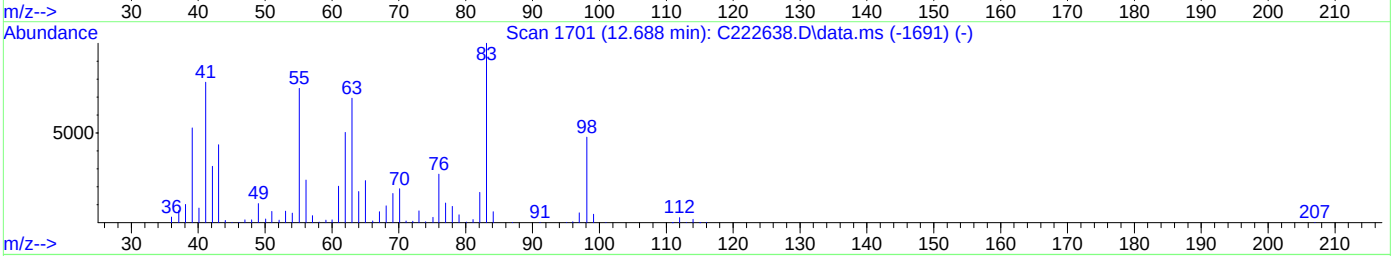
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222640.D
Acq On : 11 Aug 2018 5:16 pm
Operator : prashanS
Sample : IC8261-200
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 13 13:27:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: C222640.D\data.ms

(63) 2-chloroethyl vinyl ether (M)

12.685min (-0.003) 1023.50ug/L

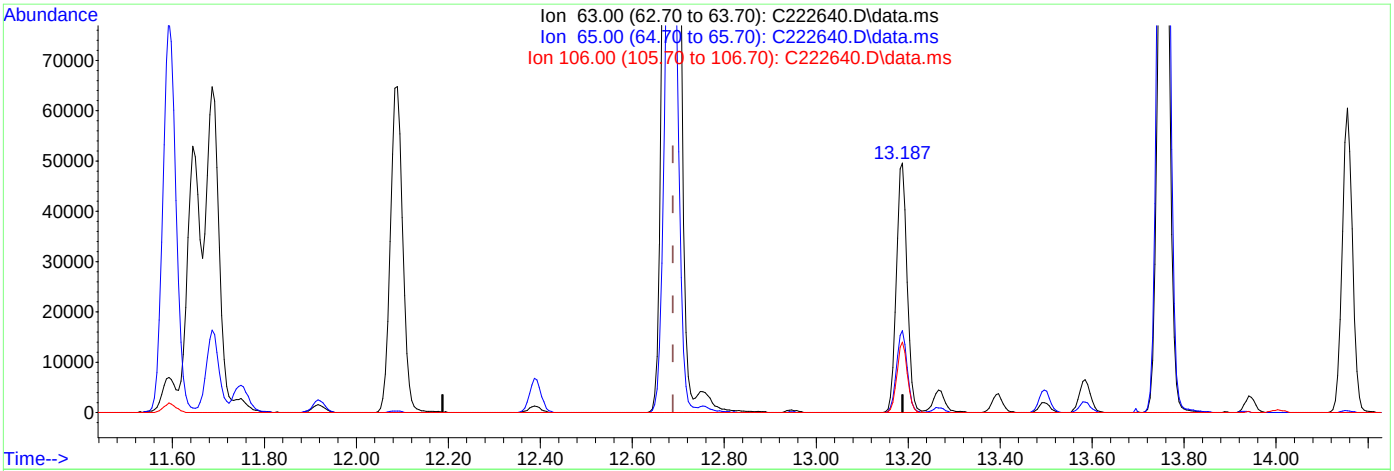
response 709258

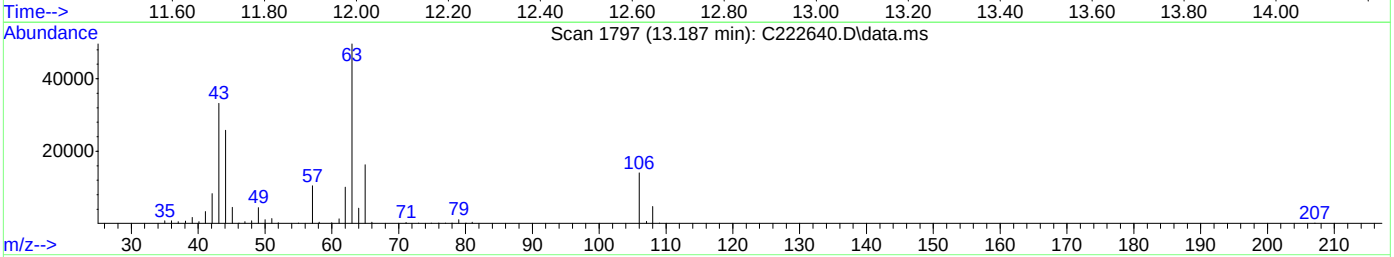
Ion	Exp%	Act%
63.00	100	100
65.00	33.80	33.19
106.00	0.00	0.00
0.00	0.00	0.00

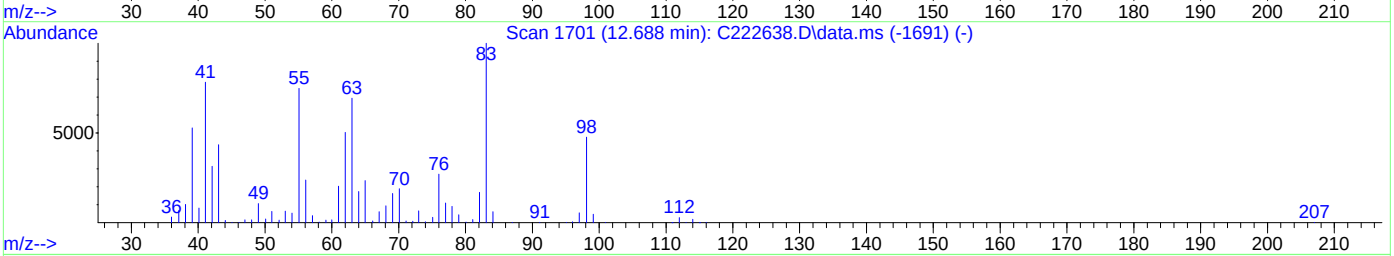
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222640.D
Acq On : 11 Aug 2018 5:16 pm
Operator : prashanS
Sample : IC8261-200
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 13 13:27:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 12:51:59 2018
Response via : Initial Calibration







TIC: C222640.D\data.ms

(63) 2-chloroethyl vinyl ether (M)

13.187min (+0.500) 116.14ug/L m

response 80484

Ion	Exp%	Act%
63.00	100	100
65.00	33.80	32.86
106.00	0.00	28.24
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu
10/26/18 10:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222643.D
Acq On : 11 Aug 2018 6:43 pm
Operator : prashanS
Sample : ICV8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 25 17:16:48 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.404	65	97204	500.00	ug/L	-0.01
5) pentafluorobenzene	11.124	168	335644	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.086	114	511277	50.00	ug/L	0.00
74) chlorobenzene-d5	15.104	117	448510	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.139	152	230702	50.00	ug/L	0.00

System Monitoring Compounds						
44) dibromofluoromethane (s)	11.145	113	138935	50.19	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 100.38%			
53) 1,2-dichloroethane-d4 (s)	11.589	65	138056	49.21	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 98.42%			
75) toluene-d8 (s)	13.681	98	611921	50.04	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.08%			
98) 4-bromofluorobenzene (s)	16.145	174	166600	49.55	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 99.10%			

Target Compounds						Qvalue
2) ethanol	6.778	45	111233	4959.25	ug/L	98
3) tertiary butyl alcohol	8.556	59	62661	251.76	ug/L	97
4) 1,4-dioxane	12.724	88	26848	1363.65	ug/L	96
6) chlorodifluoromethane	4.372	51	210948	66.94	ug/L	96
7) dichlorodifluoromethane	4.335	85	221433	48.32	ug/L	98
8) chloromethane	4.759	50	247946	49.21	ug/L	98
9) vinyl chloride	5.036	62	232895	48.50	ug/L	99
10) bromomethane	5.779	94	153533	50.67	ug/L	98
11) chloroethane	5.998	64	150097	53.79	ug/L	97
12) vinyl bromide	6.401	106	205231	59.44	ug/L	98
13) trichlorofluoromethane	6.542	101	221803	44.68	ug/L	99
14) ethyl ether	7.044	74	77421	48.46	ug/L	97
15) 2-chloropropane	7.311	43	267907	47.80	ug/L	99
16) acrolein	7.332	56	18082	45.62	ug/L	91
17) freon 113	7.567	151	115024	54.41	ug/L	98
18) 1,1-dichloroethene	7.552	61	211419	44.84	ug/L	99
19) acetone	7.578	43	153137	286.36	ug/L	97
20) acetonitrile	8.111	41	105369	443.39	ug/L	98
21) iodomethane	7.865	142	217978	62.84	ug/L	99
22) carbon disulfide	8.028	76	468748	58.16	ug/L	99
23) methylene chloride	8.467	84	145284	41.06	ug/L	99
24) methyl acetate	8.164	43	68247	48.67	ug/L	98
25) methyl tert butyl ether	8.927	73	741812	101.05	ug/L	99
26) trans-1,2-dichloroethene	8.964	61	211053	47.86	ug/L	99
27) hexane	9.403	57	222000	44.17	ug/L	99
28) di-isopropyl ether	9.675	45	499822	50.78	ug/L	100
29) ethyl tert-butyl ether	10.214	59	466045	50.60	ug/L	100
30) 1,1-dichloroethane	9.680	63	268024	47.99	ug/L	100
31) chloroprene	9.795	53	237434	52.77	ug/L	99
32) acrylonitrile	8.854	53	40045	58.74	ug/L	93
33) vinyl acetate	9.623	86	20658	49.43	ug/L #	91
34) 2-butanone	10.444	72	51344	236.65	ug/L	99
35) ethyl acetate	10.470	45	14722	50.44	ug/L #	87
36) 2,2-dichloropropane	10.533	77	227627	49.08	ug/L	100
37) cis-1,2-dichloroethene	10.507	96	167467	49.88	ug/L	99
38) methyl acrylate	10.559	85	14650	51.39	ug/L #	81
39) propionitrile	10.533	54	145190	527.83	ug/L	97
40) bromochloromethane	10.836	128	67336	52.02	ug/L	98
41) tetrahydrofuran	10.847	42	28691	46.52	ug/L	98
42) chloroform	10.941	83	253925	48.87	ug/L	100
43) t-butyl formate	10.972	59	54537	40.77	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222643.D
Acq On : 11 Aug 2018 6:43 pm
Operator : prashanS
Sample : ICV8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 25 17:16:48 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
45) methacrylonitrile	10.753	67	40059	51.21 ug/L	94
46) cyclohexane	11.312	84	229876	45.55 ug/L	100
47) 1,1,1-trichloroethane	11.202	97	222555	47.75 ug/L	99
48) 1,1-dichloropropene	11.385	75	209836	49.41 ug/L	99
49) carbon tetrachloride	11.406	117	190919	49.24 ug/L	99
50) tert-amyl alcohol	11.542	73	31173	246.05 ug/L	98
51) isobutyl alcohol	11.375	43	47675	487.97 ug/L	96
54) isopropyl acetate	11.579	87	24786	51.48 ug/L #	92
55) 2,2,4-trimethylpentane	11.741	57	690801	50.90 ug/L	99
56) tert-amyl methyl ether	11.736	73	428520	50.90 ug/L	99
57) benzene	11.642	78	608278	49.26 ug/L	100
58) heptane	11.914	57	151739	54.02 ug/L	99
59) 1,2-dichloroethane	11.683	62	173144	47.92 ug/L	99
60) n-butyl alcohol	12.144	56	156233	2550.81 ug/L	98
61) ethyl acrylate	12.390	55	126884	51.26 ug/L	99
62) trichloroethene	12.390	95	148262	49.47 ug/L	98
63) 2-chloroethyl vinyl ether	13.185	63	24130	266.02 ug/L	97
64) 2-nitropropane	13.148	41	27224	51.01 ug/L	99
65) methylcyclohexane	12.677	83	299181	50.26 ug/L	99
66) methyl methacrylate	12.651	100	28500	52.65 ug/L #	88
67) 1,2-dichloropropane	12.682	63	153145	49.29 ug/L	99
68) dibromomethane	12.787	93	74407	51.37 ug/L	98
69) bromodichloromethane	12.944	83	183444	50.60 ug/L	99
70) epichlorohydrin	13.263	57	46922	263.15 ug/L	99
71) cis-1,3-dichloropropene	13.394	75	232104	51.36 ug/L	99
72) 4-methyl-2-pentanone	13.493	58	165234	211.77 ug/L	100
73) 3-methyl-1-butanol	13.498	55	102016	1036.84 ug/L	96
76) toluene	13.755	92	383995	49.37 ug/L	98
77) ethyl methacrylate	13.932	69	145027	51.99 ug/L	97
78) trans-1,3-dichloropropene	13.943	75	189406	48.27 ug/L	98
79) 1,1,2-trichloroethane	14.152	83	88099	50.15 ug/L	99
80) 2-hexanone	14.304	58	163646	225.87 ug/L	99
81) tetrachloroethene	14.278	166	177957	59.42 ug/L	99
82) 1,3-dichloropropane	14.319	76	190887	50.96 ug/L	98
83) butyl acetate	14.377	56	76838	53.00 ug/L	99
84) dibromochloromethane	14.555	129	122322	54.55 ug/L	99
85) 1,2-dibromoethane	14.696	107	109318	52.28 ug/L	98
86) n-butyl ether	15.083	57	690022	48.92 ug/L	99
87) chlorobenzene	15.130	112	407218	49.74 ug/L	100
88) 1,1,1,2-tetrachloroethane	15.193	131	144231	53.27 ug/L	98
89) ethylbenzene	15.182	91	749007	50.17 ug/L	100
90) m,p-xylene	15.292	106	586686	102.24 ug/L	98
91) o-xylene	15.653	91	597200	50.81 ug/L	100
92) styrene	15.664	104	473973	54.73 ug/L	98
93) butyl acrylate	15.491	55	228174	53.66 ug/L	100
94) bromoform	15.883	173	71363	55.69 ug/L	98
95) isopropylbenzene	15.957	105	744046	50.58 ug/L	99
96) cis-1,4-dichloro-2-butene	15.993	88	46582	49.73 ug/L	97
99) bromobenzene	16.307	156	164807	49.73 ug/L	100
100) 1,1,2,2-tetrachloroethane	16.208	83	130659	48.17 ug/L	99
101) trans-1,4-dichloro-2-b...	16.228	53	39093	53.55 ug/L	96
102) 1,2,3-trichloropropane	16.286	110	36399	48.62 ug/L	93
103) n-propylbenzene	16.317	91	894781	49.05 ug/L	100
104) 2-chlorotoluene	16.443	126	174003	49.08 ug/L	98
105) 4-chlorotoluene	16.537	91	522506	50.20 ug/L	99
106) 1,3,5-trimethylbenzene	16.448	105	632947	49.59 ug/L	99
107) tert-butylbenzene	16.741	134	137622	50.41 ug/L	94
108) 1,2,4-trimethylbenzene	16.783	105	640865	50.35 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222643.D
Acq On : 11 Aug 2018 6:43 pm
Operator : prashanS
Sample : ICV8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 25 17:16:48 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
109) sec-butylbenzene	16.929	105	839218	50.26 ug/L	99
110) 1,3-dichlorobenzene	17.081	146	330112	48.73 ug/L	99
111) p-isopropyltoluene	17.029	119	701932	50.36 ug/L	99
112) 1,4-dichlorobenzene	17.159	146	329915	48.26 ug/L	98
113) benzyl chloride	17.233	91	213018	40.80 ug/L	99
114) 1,2-dichlorobenzene	17.468	146	305622	49.36 ug/L	98
115) n-butylbenzene	17.369	92	364863	49.02 ug/L	100
116) hexachloroethane	17.719	201	99629	55.51 ug/L	98
117) 1,2-dibromo-3-chloropr...	18.106	157	25494	50.24 ug/L	99
118) 1,3,5-trichlorobenzene	18.247	180	256251	47.95 ug/L	99
120) 2-ethylhexyl acrylate	18.728	70	32759	10.59 ug/L	99
121) 1,2,4-trichlorobenzene	18.796	180	221380	48.67 ug/L	97
122) hexachlorobutadiene	18.880	225	119696	48.03 ug/L	99
123) naphthalene	19.063	128	455900	49.84 ug/L	100
124) 1,2,3-trichlorobenzene	19.251	180	195967	47.67 ug/L	99
125) 2-methylnaphthalene	20.120	142	133024	25.16 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

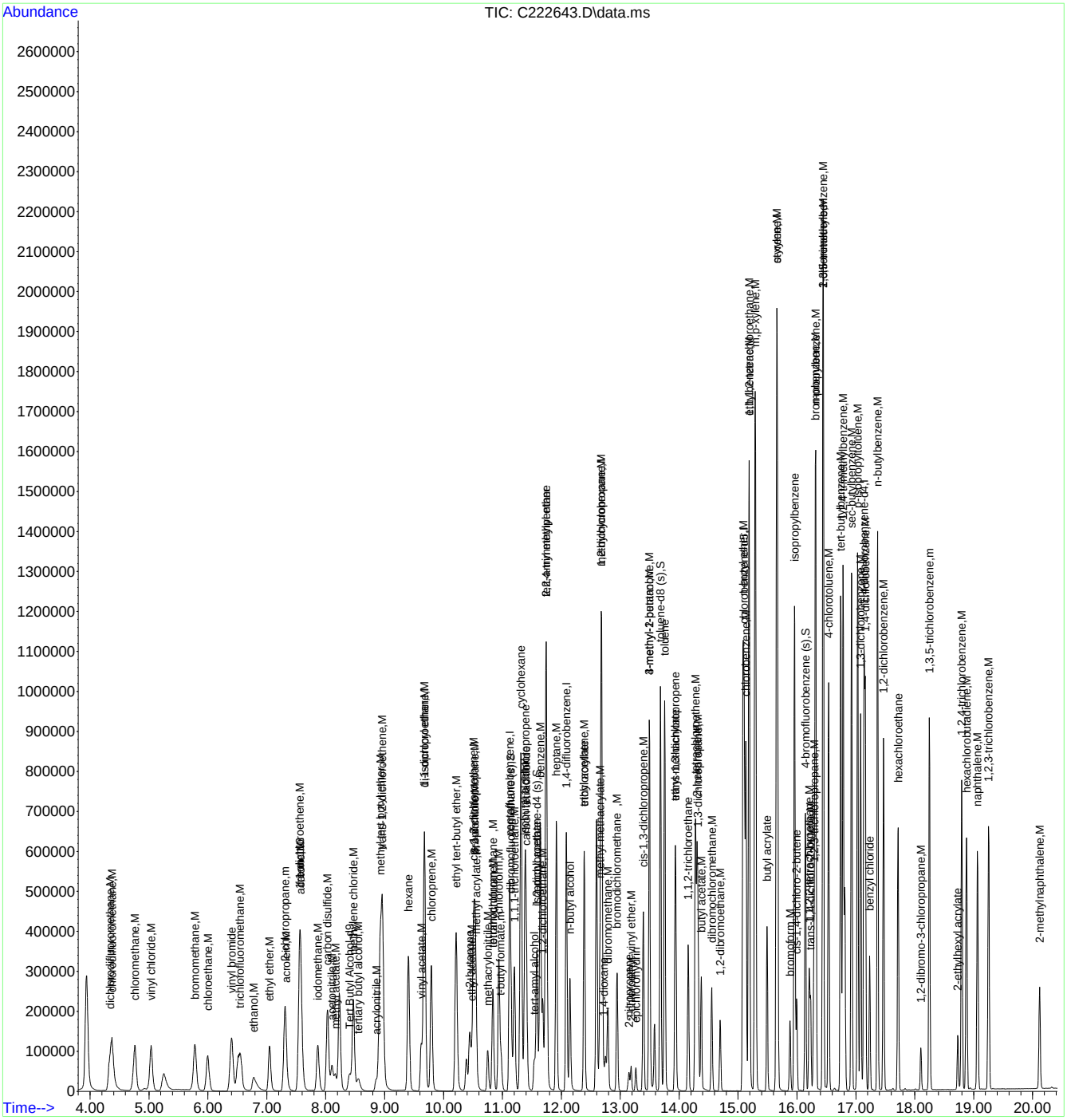
7.7.10

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222643.D
Acq On : 11 Aug 2018 6:43 pm
Operator : prashanS
Sample : ICV8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 25 17:16:48 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	VC8261-ICV8261	**Method:**	SW846 8260C
Lab FileID:	C222643.D	**Analyst approved:**	10/25/18 17:38 Dong, Mei
Injection Time:	08/11/18 18:43	**Supervisor approved:**	10/26/18 10:22 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Chloroethyl vinyl ether	110-75-8		13.18	Missed peak

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222644.D
Acq On : 11 Aug 2018 7:12 pm
Operator : prashanS
Sample : ICV8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 13 13:43:26 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 13:41:58 2018
Response via : Initial Calibration

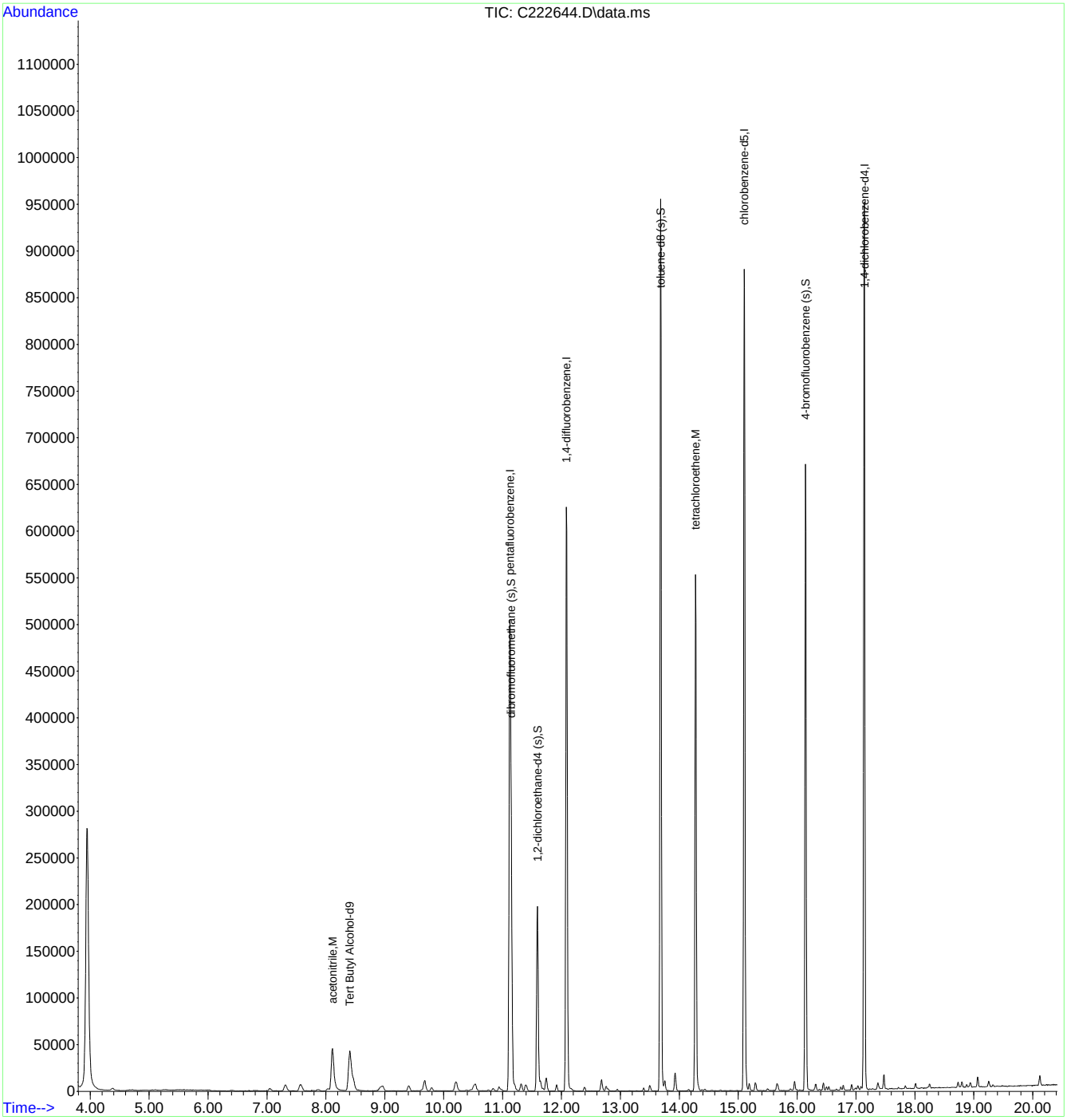
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.407	65	95521	500.00	ug/L	0.00
5) pentafluorobenzene	11.121	168	327255	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.084	114	495934	50.00	ug/L	0.00
74) chlorobenzene-d5	15.102	117	437218	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.141	152	216823	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.148	113	132071	48.94	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 97.88%			
53) 1,2-dichloroethane-d4 (s)	11.592	65	133573	49.08	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 98.16%			
75) toluene-d8 (s)	13.684	98	592413	49.70	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.40%			
98) 4-bromofluorobenzene (s)	16.142	174	159531	50.48	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 100.96%			
Target Compounds						Qvalue
20) acetonitrile	8.114	41	82562	356.32	ug/L	99
81) tetrachloroethene	14.275	166	142308	48.74	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222644.D
Acq On : 11 Aug 2018 7:12 pm
Operator : prashanS
Sample : ICV8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 13 13:43:26 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 13:41:58 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222647.D
Acq On : 13 Aug 2018 2:58 pm
Operator : prashanS
Sample : ICV8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 13 15:30:22 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 13:41:58 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.415	65	120730	500.00	ug/L	0.00
5) pentafluorobenzene	11.124	168	345556	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.087	114	529551	50.00	ug/L	0.00
74) chlorobenzene-d5	15.105	117	473022	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.139	152	235579	50.00	ug/L	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	11.151	113	145300	50.99	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 101.98%			
53) 1,2-dichloroethane-d4 (s)	11.595	65	154702	53.24	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 106.48%			
75) toluene-d8 (s)	13.687	98	636440	49.35	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.70%			
98) 4-bromofluorobenzene (s)	16.145	174	174575	50.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 101.68%			

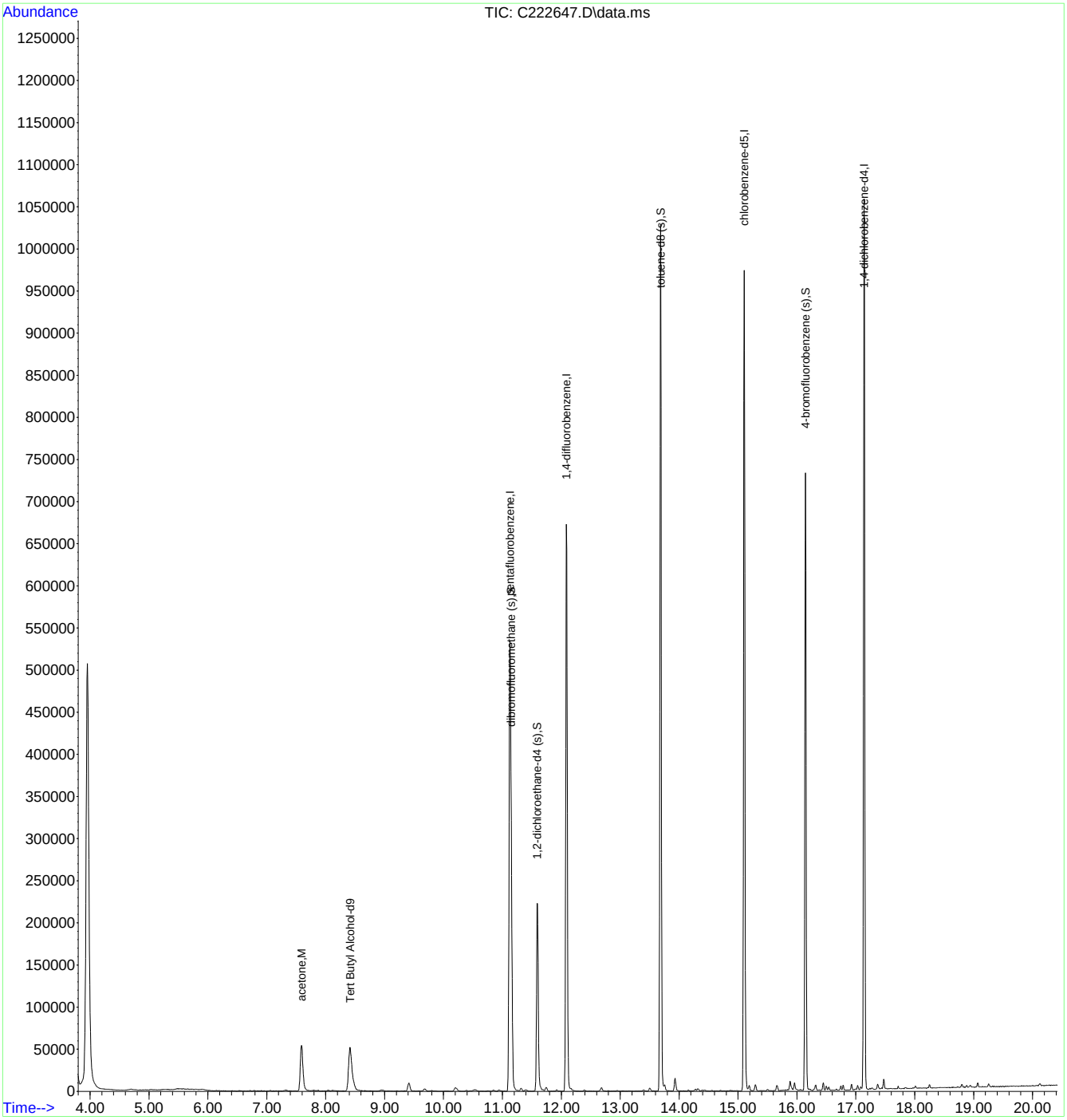
Target Compounds						Qvalue
19) acetone	7.589	43	109851	199.53	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC8261\
Data File : C222647.D
Acq On : 13 Aug 2018 2:58 pm
Operator : prashanS
Sample : ICV8261-50
Misc : MS28184,VC8261,5.0,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 13 15:30:22 2018
Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Aug 13 13:41:58 2018
Response via : Initial Calibration



MC8261.M Tue Aug 14 16:48:00 2018 C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223284.d
Acq On : 25 Oct 2018 8:35 am
Operator : prashanS
Sample : CC8261-50 Inst : MSC
Misc : MS30272,VC8293,5.0,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:32:50 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.365	65	116386	500.00	ug/L	-0.05
5) pentafluorobenzene	11.090	168	352902	50.00	ug/L	-0.03
52) 1,4-difluorobenzene	12.052	114	538598	50.00	ug/L	-0.03
74) chlorobenzene-d5	15.081	117	503067	50.00	ug/L	-0.02
97) 1,4-dichlorobenzene-d4	17.115	152	262989	50.00	ug/L	-0.02
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.111	113	141130	48.49	ug/L	-0.04
Spiked Amount 50.000	Range 75 - 127		Recovery = 96.98%			
53) 1,2-dichloroethane-d4 (s)	11.555	65	151207	51.16	ug/L	-0.04
Spiked Amount 50.000	Range 75 - 130		Recovery = 102.32%			
75) toluene-d8 (s)	13.658	98	666441	48.59	ug/L	-0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.18%			
98) 4-bromofluorobenzene (s)	16.121	174	192946	50.34	ug/L	-0.02
Spiked Amount 50.000	Range 79 - 127		Recovery = 100.68%			
Target Compounds						Qvalue
2) ethanol	6.749	45	150839	5616.68	ug/L	99
3) tertiary butyl alcohol	8.517	59	74240	249.13	ug/L	99
4) 1,4-dioxane	12.696	88	30006	1272.87	ug/L	92
6) chlorodifluoromethane	4.374	51	172430	52.04	ug/L	98
7) dichlorodifluoromethane	4.338	85	263640	54.72	ug/L	97
8) chloromethane	4.756	50	268055	50.60	ug/L	99
9) vinyl chloride	5.028	62	242172	47.97	ug/L	99
10) bromomethane	5.766	94	136416	42.82	ug/L	97
11) chloroethane	5.985	64	144526	49.26	ug/L	98
12) vinyl bromide	6.378	106	138452	38.14	ug/L	99
13) trichlorofluoromethane	6.519	101	251584	48.20	ug/L	99
14) ethyl ether	7.021	74	79514	47.33	ug/L	97
15) 2-chloropropane	7.282	43	321007	54.47	ug/L	98
16) acrolein	7.298	56	21806	52.33	ug/L	89
17) freon 113	7.554	151	105848	47.62	ug/L	98
18) 1,1-dichloroethene	7.533	61	251717	50.78	ug/L	98
19) acetone	7.539	43	126584	225.13	ug/L	100
20) acetonitrile	8.056	41	145470	582.20	ug/L	100
21) iodomethane	7.842	142	198601	54.45	ug/L	97
22) carbon disulfide	8.009	76	435635	51.41	ug/L	100
23) methylene chloride	8.433	84	158457	42.60	ug/L	96
24) methyl acetate	8.124	43	85519	58.01	ug/L	95
25) methyl tert butyl ether	8.899	73	391853	50.77	ug/L	98
26) trans-1,2-dichloroethene	8.935	61	240553	51.88	ug/L	97
27) hexane	9.374	57	273917	51.84	ug/L	94
28) di-isopropyl ether	9.641	45	593839	57.38	ug/L	97
29) ethyl tert-butyl ether	10.185	59	532989	55.03	ug/L	99
30) 1,1-dichloroethane	9.641	63	290052	49.40	ug/L	99
31) chloroprene	9.756	53	256024	54.12	ug/L	94
32) acrylonitrile	8.804	53	40327	56.26	ug/L	96
33) vinyl acetate	9.584	86	23742	54.03	ug/L #	85
34) 2-butanone	10.400	72	49088	215.19	ug/L	98
35) ethyl acetate	10.431	45	17652	57.52	ug/L #	75
36) 2,2-dichloropropane	10.504	77	258739	53.06	ug/L	99
37) cis-1,2-dichloroethene	10.473	96	172148	48.77	ug/L	98
38) methyl acrylate	10.520	85	15199	50.71	ug/L #	83
39) propionitrile	10.483	54	155961	539.26	ug/L	84
40) bromochloromethane	10.802	128	68171	50.09	ug/L	95
41) tetrahydrofuran	10.813	42	33366	51.46	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223284.d
Acq On : 25 Oct 2018 8:35 am
Operator : prashanS
Sample : CC8261-50 Inst : MSC
Misc : MS30272,VC8293,5.0,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:32:50 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) chloroform	10.902	83	263606	48.25	ug/L		99
43) t-butyl formate	10.938	59	117744	83.73	ug/L		99
45) methacrylonitrile	10.703	67	44059	53.57	ug/L		95
46) cyclohexane	11.289	84	278611	52.51	ug/L		95
47) 1,1,1-trichloroethane	11.174	97	247515	50.51	ug/L		97
48) 1,1-dichloropropene	11.357	75	219760	49.21	ug/L		99
49) carbon tetrachloride	11.383	117	203140	49.83	ug/L		99
50) tert-amyl alcohol	11.503	73	35674	267.80	ug/L		98
51) isobutyl alcohol	11.336	43	56509	550.10	ug/L		94
54) isopropyl acetate	11.545	87	27654	54.52	ug/L		97
55) 2,2,4-trimethylpentane	11.723	57	815181	57.02	ug/L		99
56) tert-amyl methyl ether	11.707	73	487127	54.93	ug/L		99
57) benzene	11.613	78	637322	48.99	ug/L		99
58) heptane	11.890	57	157385	53.18	ug/L		99
59) 1,2-dichloroethane	11.650	62	182398	47.92	ug/L		99
60) n-butyl alcohol	12.110	56	182918	2835.00	ug/L		93
61) ethyl acrylate	12.361	55	147235	56.47	ug/L		99
62) trichloroethene	12.361	95	156346	49.53	ug/L		97
63) 2-chloroethyl vinyl ether	13.151	63	75056	555.39	ug/L		96
64) 2-nitropropane	13.109	41	34110	60.67	ug/L		98
65) methylcyclohexane	12.654	83	338584	54.00	ug/L		96
66) methyl methacrylate	12.622	100	29432	51.61	ug/L		94
67) 1,2-dichloropropane	12.649	63	163992	50.11	ug/L		99
68) dibromomethane	12.758	93	74648	48.92	ug/L		98
69) bromodichloromethane	12.915	83	194273	50.87	ug/L		99
70) epichlorohydrin	13.229	57	57028	303.60	ug/L		98
71) cis-1,3-dichloropropene	13.365	75	253635	53.27	ug/L		97
72) 4-methyl-2-pentanone	13.459	58	190875	232.22	ug/L		93
73) 3-methyl-1-butanol	13.464	55	124179	1198.07	ug/L		93
76) toluene	13.726	92	416789	47.77	ug/L		97
77) ethyl methacrylate	13.904	69	169305	54.11	ug/L		96
78) trans-1,3-dichloropropene	13.914	75	219296	49.82	ug/L		99
79) 1,1,2-trichloroethane	14.123	83	97634	49.55	ug/L		98
80) 2-hexanone	14.270	58	189765	233.51	ug/L		97
81) tetrachloroethene	14.254	166	165712	49.33	ug/L		99
82) 1,3-dichloropropane	14.291	76	207681	49.43	ug/L		98
83) butyl acetate	14.348	56	94804	58.30	ug/L		94
84) dibromochloromethane	14.526	129	127697	50.77	ug/L		99
85) 1,2-dibromoethane	14.667	107	120679	51.46	ug/L		99
86) n-butyl ether	15.060	57	847627	53.57	ug/L		98
87) chlorobenzene	15.107	112	445988	48.56	ug/L		97
88) 1,1,1,2-tetrachloroethane	15.169	131	145266	47.83	ug/L		98
89) ethylbenzene	15.159	91	830982	49.62	ug/L		99
90) m,p-xylene	15.269	106	641827	99.72	ug/L		99
91) o-xylene	15.630	91	655769	49.74	ug/L		99
92) styrene	15.640	104	506383	52.13	ug/L		99
93) butyl acrylate	15.468	55	272291	57.09	ug/L		99
94) bromoform	15.855	173	78013	54.28	ug/L		99
95) isopropylbenzene	15.933	105	825091	50.01	ug/L		99
96) cis-1,4-dichloro-2-butene	15.964	88	59322	56.46	ug/L		96
99) bromobenzene	16.283	156	184036	48.71	ug/L		98
100) 1,1,2,2-tetrachloroethane	16.179	83	154852	50.08	ug/L		99
101) trans-1,4-dichloro-2-b...	16.205	53	45850	55.09	ug/L		94
102) 1,2,3-trichloropropane	16.257	110	42864	50.23	ug/L	#	90
103) n-propylbenzene	16.294	91	1026257	49.35	ug/L		99
104) 2-chlorotoluene	16.419	126	194830	48.21	ug/L		95
105) 4-chlorotoluene	16.514	91	594786	50.13	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223284.d
Acq On : 25 Oct 2018 8:35 am
Operator : prashanS
Sample : CC8261-50 Inst : MSC
Misc : MS30272,VC8293,5.0,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:32:50 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration

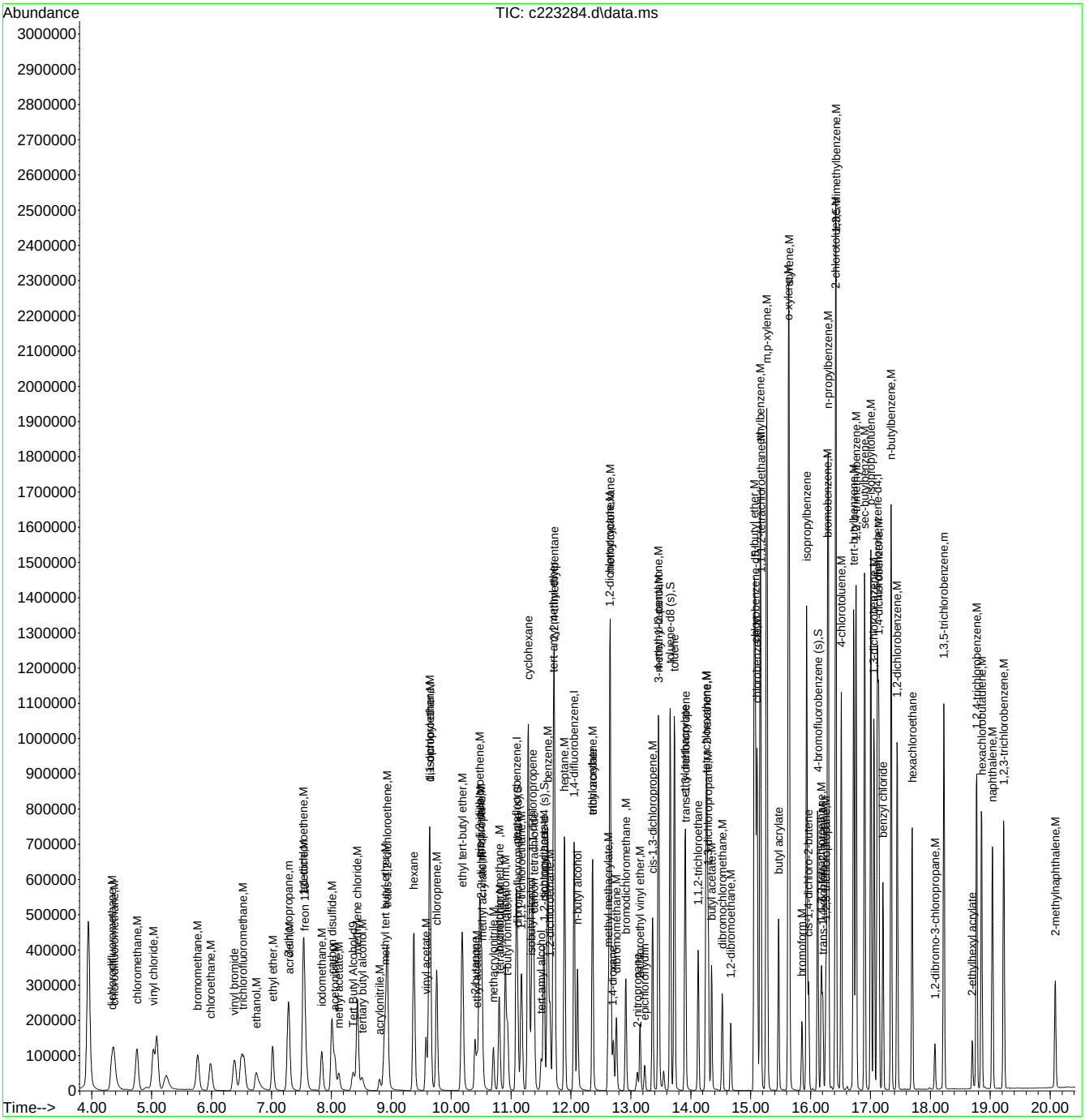
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,3,5-trimethylbenzene	16.425	105	706559	48.56	ug/L	99
107) tert-butylbenzene	16.718	134	150615	48.40	ug/L	93
108) 1,2,4-trimethylbenzene	16.759	105	714498	49.24	ug/L	100
109) sec-butylbenzene	16.901	105	939393	49.35	ug/L	99
110) 1,3-dichlorobenzene	17.058	146	374400	48.48	ug/L	99
111) p-isopropyltoluene	17.005	119	785337	49.43	ug/L	98
112) 1,4-dichlorobenzene	17.136	146	373097	47.88	ug/L	99
113) benzyl chloride	17.209	91	368157	61.86	ug/L	98
114) 1,2-dichlorobenzene	17.445	146	343664	48.69	ug/L	99
115) n-butylbenzene	17.345	92	440048	51.86	ug/L	97
116) hexachloroethane	17.696	201	111290	54.40	ug/L	98
117) 1,2-dibromo-3-chloropr...	18.077	157	30790	53.23	ug/L	97
118) 1,3,5-trichlorobenzene	18.224	180	310962	51.05	ug/L	99
120) 2-ethylhexyl acrylate	18.700	70	32114	9.10	ug/L	100
121) 1,2,4-trichlorobenzene	18.773	180	260983	50.33	ug/L	100
122) hexachlorobutadiene	18.857	225	155204	54.63	ug/L	98
123) naphthalene	19.034	128	526221	50.47	ug/L	100
124) 1,2,3-trichlorobenzene	19.228	180	232701	49.66	ug/L	99
125) 2-methylnaphthalene	20.086	142	158037	26.22	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\10-27-18\vc8293\
Data File : c223284.d
Acq On : 25 Oct 2018 8:35 am
Operator : prashanS
Sample : CC8261-50 Inst : MSC
Misc : MS30272,VC8293,5.0,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MC8261.M
Quant Results File: MC8261.RES
Quant Time: Oct 26 10:32:50 2018
Quant Title : Method 8260C, Rxi-624 60 m x 0.25 mm x 1.4 um
QLast Update : Thu Oct 25 17:07:17 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257655.D
Acq On : 6 Jun 2018 5:59 pm
Operator : thienn
Sample : IC10401-0.5
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 10:25:25 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.575	65	70340	500.00	ug/L	0.00
5) pentafluorobenzene	9.829	168	107030	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.785	114	167921	50.00	ug/L	0.00
75) chlorobenzene-d5	14.194	117	145953	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.834	152	97653	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.865	113	53547	55.25	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 110.50%			
55) 1,2-dichloroethane-d4 (s)	10.294	65	62225	55.06	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 110.12%			
76) toluene-d8 (s)	12.516	98	199804	54.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 108.58%			
99) 4-bromofluorobenzene (s)	15.512	95	73836	48.74	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 97.48%			

Target Compounds						Qvalue
8) chloromethane	4.826	50	1371	0.45	ug/L	86
10) vinyl chloride	5.045	62	1264	0.44	ug/L #	54
14) vinyl bromide	6.096	106	626	0.39	ug/L	91
19) 1,1-dichloroethene	6.964	96	624	0.45	ug/L #	30
23) carbon disulfide	7.398	76	2176	0.45	ug/L	78
26) methyl tert butyl ether	8.015	73	2512	0.58	ug/L	55
29) di-isopropyl ether	8.584	45	2206	0.47	ug/L	91
31) 1,1-dichloroethane	8.595	63	1059	0.51	ug/L	85
32) chloroprene	8.700	53	777	0.46	ug/L	75
35) ethyl tert-butyl ether	9.060	59	2069	0.44	ug/L	85
37) 2,2-dichloropropane	9.353	77	1301	0.60	ug/L	87
38) cis-1,2-dichloroethene	9.301	96	591	0.43	ug/L #	73
44) chloroform	9.677	83	1078	0.53	ug/L	86
47) 1,1,1-trichloroethane	9.965	97	1061	0.49	ug/L	91
58) benzene	10.383	78	2361	0.47	ug/L	90
59) tert-amyl methyl ether	10.477	73	2182	0.48	ug/L	77
63) trichloroethene	11.120	95	513	0.46	ug/L #	71
69) bromodichloromethane	11.679	83	750	0.49	ug/L	77
72) cis-1,3-dichloropropene	12.171	75	814	0.42	ug/L #	71
77) toluene	12.600	92	1332	0.48	ug/L	96
79) trans-1,3-dichloropropene	12.783	75	724	0.47	ug/L #	83
81) tetrachloroethene	13.227	164	350	0.40	ug/L #	86
87) n-butyl ether	14.199	57	2654	0.50	ug/L #	24
88) chlorobenzene	14.231	112	1397	0.46	ug/L	96
90) ethylbenzene	14.304	91	2432	0.46	ug/L	99
91) m,p-xylene	14.445	106	1903	0.95	ug/L	90
92) o-xylene	14.889	91	2307	0.49	ug/L	90
93) styrene	14.905	104	1531	0.45	ug/L	98
95) isopropylbenzene	15.292	105	3011	0.51	ug/L	94
103) bromobenzene	15.726	156	617	0.43	ug/L	91
104) n-propylbenzene	15.763	91	3235	0.47	ug/L	90
105) 2-chlorotoluene	15.904	126	611	0.43	ug/L #	70
106) 4-chlorotoluene	16.040	91	1910	0.45	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257655.D
Acq On : 6 Jun 2018 5:59 pm
Operator : thienn
Sample : IC10401-0.5
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 10:25:25 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
107) 1,3,5-trimethylbenzene	15.946	105	2557	0.45 ug/L	93
109) 1,2,4-trimethylbenzene	16.385	105	2560	0.44 ug/L	98
111) p-isopropyltoluene	16.719	119	2985	0.48 ug/L	94
112) 1,3-dichlorobenzene	16.756	146	1315	0.41 ug/L	94
113) 1,4-dichlorobenzene	16.866	146	1405	0.43 ug/L	88
114) 1,2-dichlorobenzene	17.279	146	1667	0.49 ug/L	90
115) benzyl chloride	16.955	91	1668	0.51 ug/L	55
116) n-butylbenzene	17.179	92	1384	0.43 ug/L	88
120) 1,3,5-trichlorobenzene	18.361	180	1387	0.43 ug/L #	78
121) 1,2,4-trichlorobenzene	19.093	180	1207	0.46 ug/L	85
123) naphthalene	19.443	128	2481	0.45 ug/L	77
124) 1,2,3-trichlorobenzene	19.710	180	894	0.41 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

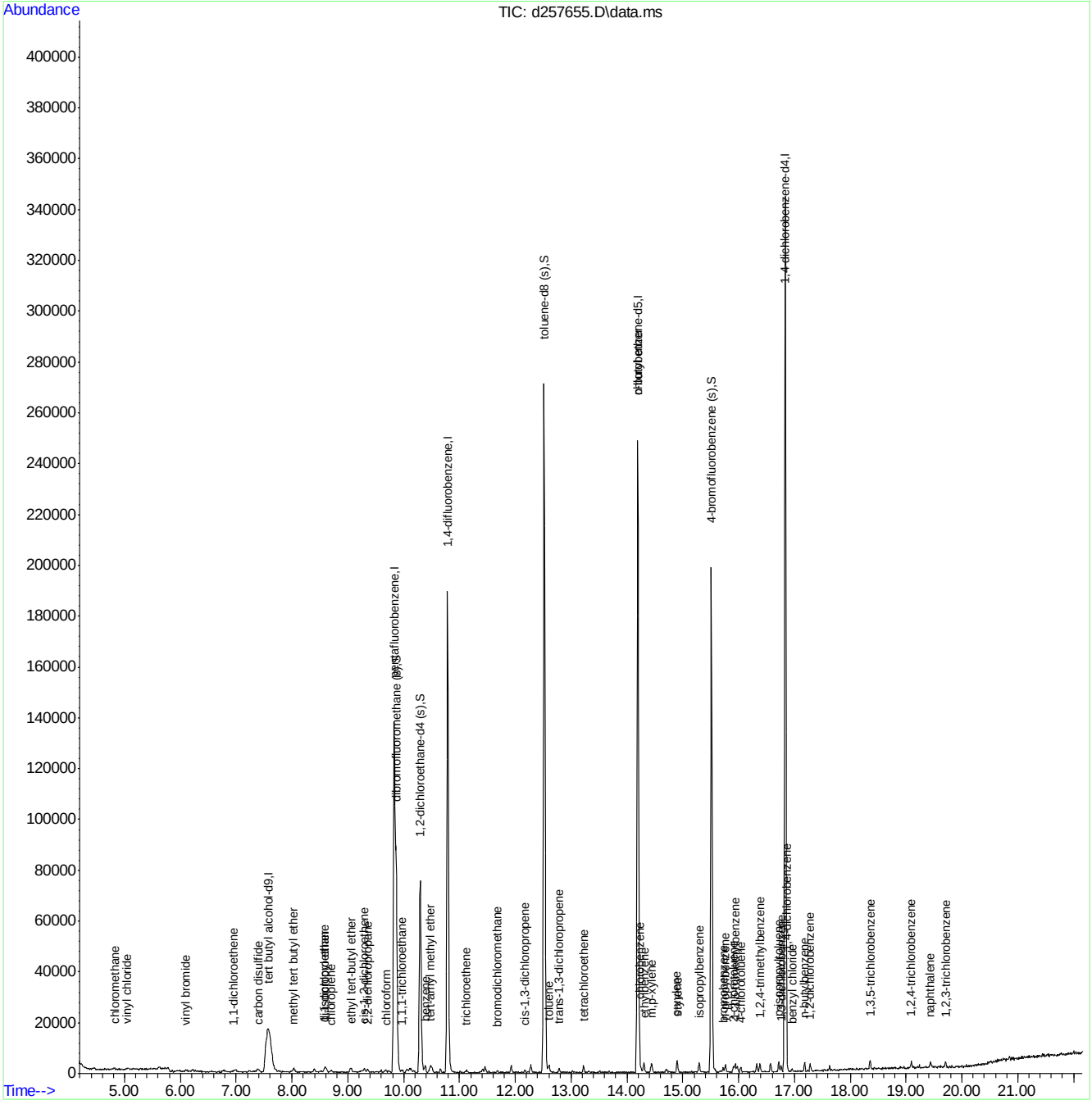
7.7.14

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257655.D
Acq On : 6 Jun 2018 5:59 pm
Operator : thienn
Sample : IC10401-0.5
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 10:25:25 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257656.D
Acq On : 6 Jun 2018 6:29 pm
Operator : thienn
Sample : IC10401-1
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 09:06:01 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.598	65	71374	500.00	ug/L	0.02
5) pentafluorobenzene	9.830	168	123076	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.787	114	191644	50.00	ug/L	0.00
75) chlorobenzene-d5	14.195	117	173267	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.836	152	113819	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.861	113	58914	52.87	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 105.74%			
55) 1,2-dichloroethane-d4 (s)	10.295	65	68643	53.22	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 106.44%			
76) toluene-d8 (s)	12.517	98	231205	52.92	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.84%			
99) 4-bromofluorobenzene (s)	15.513	95	86906	49.22	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 98.44%			

Target Compounds						Qvalue
6) chlorodifluoromethane	4.440	51	2301	0.75	ug/L	69
7) dichlorodifluoromethane	4.429	85	2534	0.84	ug/L #	51
8) chloromethane	4.806	50	3297	0.93	ug/L	88
10) vinyl chloride	5.041	62	2674	0.80	ug/L	81
12) chloroethane	5.784	64	1622	0.93	ug/L	48
13) trichlorofluoromethane	6.233	101	2898	0.98	ug/L	85
14) vinyl bromide	6.082	106	1675	0.91	ug/L	92
16) 2-chloropropane	6.787	43	2892	1.01	ug/L #	50
19) 1,1-dichloroethene	6.970	96	1383	0.86	ug/L #	80
22) iodomethane	7.221	142	2067	0.80	ug/L	83
23) carbon disulfide	7.394	76	4515	0.81	ug/L	84
24) methylene chloride	7.634	84	1403	0.89	ug/L	91
26) methyl tert butyl ether	8.011	73	4591	0.93	ug/L	90
27) trans-1,2-dichloroethene	8.032	96	1215	0.81	ug/L #	80
29) di-isopropyl ether	8.586	45	4801	0.89	ug/L	91
31) 1,1-dichloroethane	8.586	63	2187	0.91	ug/L	82
32) chloroprene	8.701	53	1747	0.89	ug/L	84
35) ethyl tert-butyl ether	9.061	59	4603	0.86	ug/L	92
37) 2,2-dichloropropane	9.349	77	2565	1.03	ug/L	85
38) cis-1,2-dichloroethene	9.292	96	1339	0.85	ug/L	77
39) propionitrile	9.271	54	1713	8.67	ug/L	70
42) bromochloromethane	9.600	128	518	0.79	ug/L #	80
44) chloroform	9.668	83	2267	0.97	ug/L	79
45) tert-butyl formate	9.715	59	1186	1.52	ug/L	77
47) 1,1,1-trichloroethane	9.976	97	2523	1.02	ug/L	91
48) cyclohexane	10.107	84	2725	0.95	ug/L	80
50) 1,1-dichloropropene	10.138	75	1804	1.05	ug/L	89
51) carbon tetrachloride	10.175	117	1844	0.93	ug/L	88
57) 2,2,4-trimethylpentane	10.499	57	5265	1.01	ug/L	98
58) benzene	10.384	78	5140	0.89	ug/L	97
59) tert-amyl methyl ether	10.473	73	4695	0.90	ug/L	94
61) 1,2-dichloroethane	10.384	62	1468	0.84	ug/L	91
63) trichloroethene	11.137	95	1189	0.93	ug/L #	62

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257656.D
Acq On : 6 Jun 2018 6:29 pm
Operator : thienn
Sample : IC10401-1
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 09:06:01 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

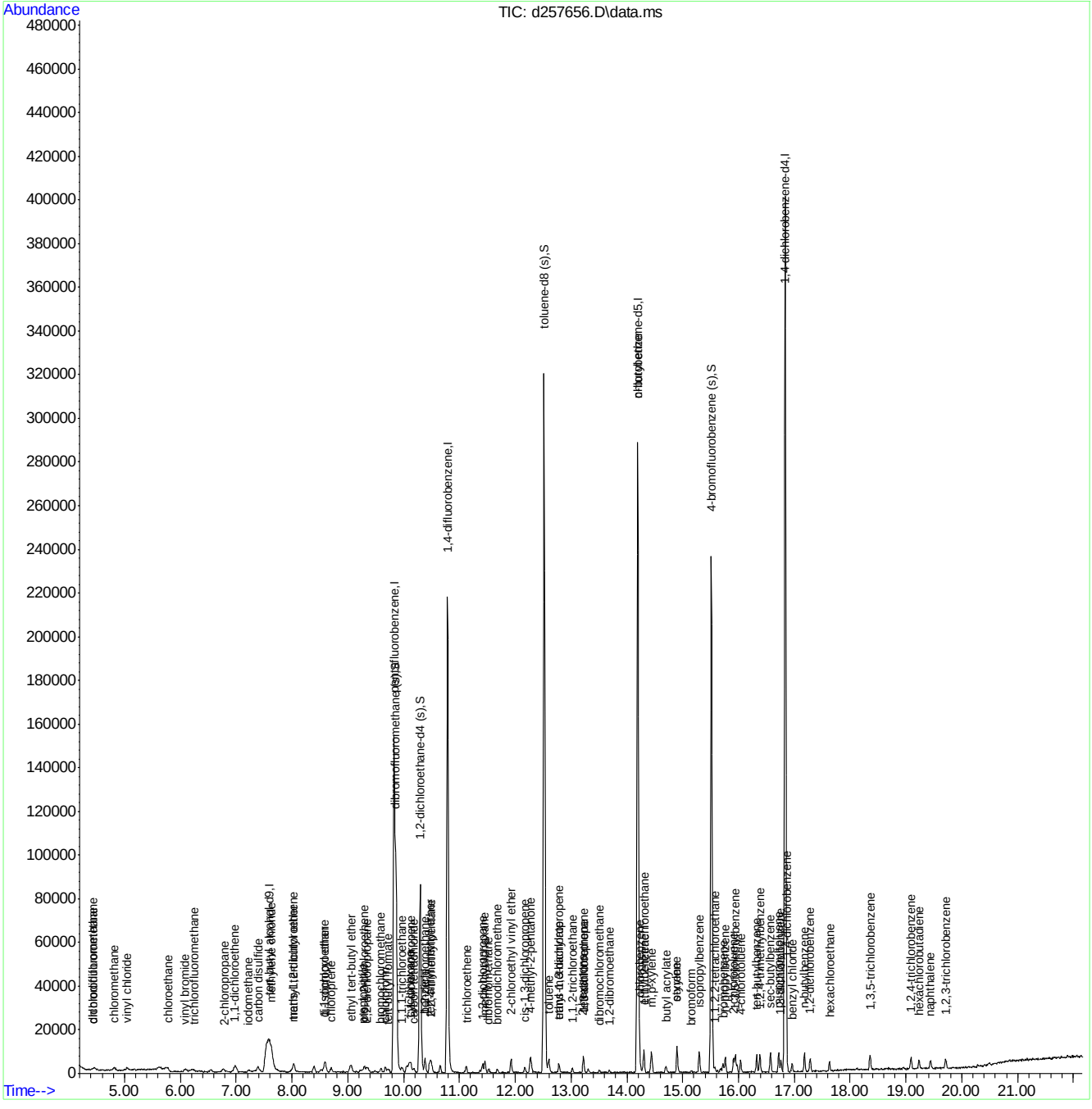
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
64) 2-chloroethyl vinyl ether	11.926	63	3086	4.18 ug/L	96
66) methylcyclohexane	11.456	83	2804	0.91 ug/L	92
67) 1,2-dichloropropane	11.414	63	1192	0.85 ug/L	84
68) dibromomethane	11.519	93	583	0.80 ug/L	87
69) bromodichloromethane	11.675	83	1516	0.87 ug/L	72
72) cis-1,3-dichloropropene	12.172	75	2018	0.92 ug/L	96
73) 4-methyl-2-pentanone	12.271	58	1794	3.51 ug/L	99
77) toluene	12.601	92	3053	0.92 ug/L	96
78) ethyl methacrylate	12.784	69	1301	0.85 ug/L	87
79) trans-1,3-dichloropropene	12.784	75	1685	0.93 ug/L	94
80) 1,1,2-trichloroethane	13.019	83	864	1.00 ug/L #	77
81) tetrachloroethene	13.223	164	871	0.84 ug/L	95
82) 2-hexanone	13.207	58	1323	3.26 ug/L #	92
83) 1,3-dichloropropane	13.228	76	1569	0.86 ug/L	86
85) dibromochloromethane	13.505	129	1074	0.92 ug/L	80
86) 1,2-dibromoethane	13.683	107	916	0.85 ug/L	75
87) n-butyl ether	14.195	57	6474	1.02 ug/L	57
88) chlorobenzene	14.232	112	2982	0.83 ug/L	95
89) 1,1,1,2-tetrachloroethane	14.305	131	1273	0.88 ug/L	94
90) ethylbenzene	14.305	91	5466	0.87 ug/L	97
91) m,p-xylene	14.436	106	4175	1.76 ug/L	87
92) o-xylene	14.891	91	4956	0.89 ug/L	93
93) styrene	14.901	104	3418	0.85 ug/L	100
94) butyl acrylate	14.703	55	2527	0.99 ug/L	95
95) isopropylbenzene	15.293	105	6412	0.91 ug/L	99
96) bromoform	15.152	173	587	0.79 ug/L	77
100) 1,1,2,2-tetrachloroethane	15.581	83	1496	0.90 ug/L	96
103) bromobenzene	15.727	156	1314	0.79 ug/L	87
104) n-propylbenzene	15.759	91	7220	0.90 ug/L	99
105) 2-chlorotoluene	15.910	126	1379	0.83 ug/L	93
106) 4-chlorotoluene	16.036	91	4281	0.86 ug/L	99
107) 1,3,5-trimethylbenzene	15.942	105	5648	0.86 ug/L	94
108) tert-butylbenzene	16.328	119	4911	0.88 ug/L	91
109) 1,2,4-trimethylbenzene	16.381	105	5721	0.84 ug/L	93
110) sec-butylbenzene	16.574	105	7487	0.89 ug/L	94
111) p-isopropyltoluene	16.715	119	6223	0.86 ug/L	96
112) 1,3-dichlorobenzene	16.762	146	3068	0.83 ug/L	92
113) 1,4-dichlorobenzene	16.867	146	3106	0.81 ug/L	95
114) 1,2-dichlorobenzene	17.285	146	3249	0.82 ug/L	88
115) benzyl chloride	16.956	91	3737	0.97 ug/L	100
116) n-butylbenzene	17.175	92	2984	0.80 ug/L	93
118) hexachloroethane	17.630	201	1088	0.97 ug/L	93
120) 1,3,5-trichlorobenzene	18.357	180	3104	0.83 ug/L	96
121) 1,2,4-trichlorobenzene	19.094	180	2224	0.73 ug/L	86
122) hexachlorobutadiene	19.230	225	1164	0.84 ug/L	84
123) naphthalene	19.434	128	4530	0.70 ug/L	99
124) 1,2,3-trichlorobenzene	19.706	180	2136	0.84 ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257656.D
Acq On : 6 Jun 2018 6:29 pm
Operator : thienn
Sample : IC10401-1
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 09:06:01 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257657.D
Acq On : 6 Jun 2018 6:59 pm
Operator : thienn
Sample : IC10401-2
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 09:08:11 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:36:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.587	65	75549	500.00	ug/L	0.00
5) pentafluorobenzene	9.829	168	120004	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.786	114	189220	50.00	ug/L	0.00
75) chlorobenzene-d5	14.195	117	170938	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.835	152	113529	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.866	113	59318	50.86	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 101.72%			
55) 1,2-dichloroethane-d4 (s)	10.295	65	68749	49.70	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 99.40%			
76) toluene-d8 (s)	12.517	98	229730	50.84	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.68%			
99) 4-bromofluorobenzene (s)	15.512	95	88169	51.61	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 103.22%			

Target Compounds						Qvalue
2) ethanol	6.405	45	4519	255.29	ug/L #	36
3) tertiary butyl alcohol	7.675	59	1569	8.05	ug/L	76
6) chlorodifluoromethane	4.434	51	5406	1.90	ug/L	91
7) dichlorodifluoromethane	4.445	85	6015	2.00	ug/L	93
8) chloromethane	4.811	50	6938	2.05	ug/L	85
10) vinyl chloride	5.046	62	6056	1.97	ug/L	89
11) bromomethane	5.621	94	3381	1.99	ug/L	96
12) chloroethane	5.767	64	3354	2.13	ug/L	91
13) trichlorofluoromethane	6.217	101	6338	2.10	ug/L	83
14) vinyl bromide	6.091	106	3404	2.03	ug/L #	79
15) ethyl ether	6.541	74	1304	1.83	ug/L	94
16) 2-chloropropane	6.771	43	6527	2.15	ug/L	93
18) freon 113	7.001	151	2481	1.83	ug/L #	79
19) 1,1-dichloroethene	6.991	96	3125	1.98	ug/L #	75
20) acetone	6.923	58	623	6.24	ug/L #	1
22) iodomethane	7.231	142	4631	2.02	ug/L	92
23) carbon disulfide	7.393	76	10573	2.04	ug/L	91
24) methylene chloride	7.639	84	3614	2.15	ug/L	92
25) methyl acetate	7.388	43	1895	2.11	ug/L	63
26) methyl tert butyl ether	8.021	73	10322	1.95	ug/L	93
27) trans-1,2-dichloroethene	8.036	96	2799	2.05	ug/L	97
28) hexane	8.397	56	1892	1.98	ug/L #	80
29) di-isopropyl ether	8.590	45	10449	1.94	ug/L	94
30) 2-butanone	9.212	72	884	7.03	ug/L #	43
31) 1,1-dichloroethane	8.590	63	5100	2.03	ug/L	98
32) chloroprene	8.700	53	4189	1.98	ug/L	92
33) acrylonitrile	7.900	53	620	1.56	ug/L #	73
35) ethyl tert-butyl ether	9.045	59	11093	1.98	ug/L	89
37) 2,2-dichloropropane	9.343	77	5803	2.04	ug/L	98
38) cis-1,2-dichloroethene	9.296	96	3138	2.09	ug/L	87
39) propionitrile	9.270	54	4173	21.18	ug/L	95
41) methacrylonitrile	9.490	67	766	1.62	ug/L #	48
42) bromochloromethane	9.599	128	1256	1.87	ug/L	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257657.D
Acq On : 6 Jun 2018 6:59 pm
Operator : thienn
Sample : IC10401-2
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 09:08:11 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:36:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
44) chloroform	9.673	83	4960	2.03 ug/L	96
45) tert-butyl formate	9.720	59	3049	1.99 ug/L	86
47) 1,1,1-trichloroethane	9.971	97	5435	1.99 ug/L	94
48) cyclohexane	10.112	84	6336	2.09 ug/L	82
50) 1,1-dichloropropene	10.133	75	3864	2.08 ug/L	89
51) carbon tetrachloride	10.174	117	4434	1.99 ug/L	92
52) tert-amyl alcohol	10.216	73	967	5.04 ug/L #	51
57) 2,2,4-trimethylpentane	10.499	57	12029	1.77 ug/L	98
58) benzene	10.384	78	11699	2.04 ug/L	99
59) tert-amyl methyl ether	10.462	73	10672	1.99 ug/L	95
60) heptane	10.650	57	2305	0.49 ug/L	80
61) 1,2-dichloroethane	10.394	62	3650	2.11 ug/L	93
62) ethyl acrylate	11.089	55	2915	2.03 ug/L	81
63) trichloroethene	11.121	95	2646	1.97 ug/L	86
64) 2-chloroethyl vinyl ether	11.921	63	7279	10.00 ug/L	99
66) methylcyclohexane	11.455	83	6298	1.98 ug/L	97
67) 1,2-dichloropropane	11.408	63	3057	2.11 ug/L	93
68) dibromomethane	11.518	93	1624	2.04 ug/L	90
69) bromodichloromethane	11.675	83	3691	1.96 ug/L	95
71) epichlorohydrin	12.009	57	1385	9.47 ug/L	75
72) cis-1,3-dichloropropene	12.172	75	4431	1.95 ug/L	98
73) 4-methyl-2-pentanone	12.276	58	4387	8.37 ug/L #	84
74) isoamyl alcohol	12.266	70	1741	3.90 ug/L #	82
77) toluene	12.595	92	6656	1.98 ug/L	93
78) ethyl methacrylate	12.778	69	3101	1.99 ug/L	92
79) trans-1,3-dichloropropene	12.778	75	3875	2.04 ug/L	88
80) 1,1,2-trichloroethane	13.029	83	1945	2.12 ug/L #	80
81) tetrachloroethene	13.228	164	2081	1.99 ug/L	99
82) 2-hexanone	13.212	58	3646	8.68 ug/L	94
83) 1,3-dichloropropane	13.222	76	3817	2.11 ug/L	90
84) butyl acetate	13.311	56	1748	2.10 ug/L #	79
85) dibromochloromethane	13.499	129	2540	2.04 ug/L	86
86) 1,2-dibromoethane	13.677	107	2263	2.08 ug/L	97
87) n-butyl ether	14.195	57	14613	2.12 ug/L	76
88) chlorobenzene	14.231	112	6925	1.97 ug/L	95
89) 1,1,1,2-tetrachloroethane	14.299	131	3178	2.08 ug/L	92
90) ethylbenzene	14.305	91	12767	2.01 ug/L	92
91) m,p-xylene	14.446	106	9477	3.89 ug/L	92
92) o-xylene	14.890	91	11187	1.98 ug/L	98
93) styrene	14.901	104	8088	2.00 ug/L	90
94) butyl acrylate	14.697	55	5855	2.06 ug/L	97
95) isopropylbenzene	15.293	105	14611	1.97 ug/L	98
96) bromoform	15.151	173	1604	1.93 ug/L	92
97) cis-1,4-dichloro-2-butene	15.308	88	1244	1.00 ug/L #	82
100) 1,1,2,2-tetrachloroethane	15.580	83	3510	2.16 ug/L	92
101) trans-1,4-dichloro-2-b...	15.622	53	909	2.02 ug/L	90
102) 1,2,3-trichloropropane	15.680	110	983	2.08 ug/L #	67
103) bromobenzene	15.721	156	3194	2.00 ug/L	97
104) n-propylbenzene	15.763	91	16627	2.02 ug/L	97
105) 2-chlorotoluene	15.910	126	3264	1.97 ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257657.D
Acq On : 6 Jun 2018 6:59 pm
Operator : thienn
Sample : IC10401-2
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 09:08:11 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:36:26 2018
Response via : Initial Calibration

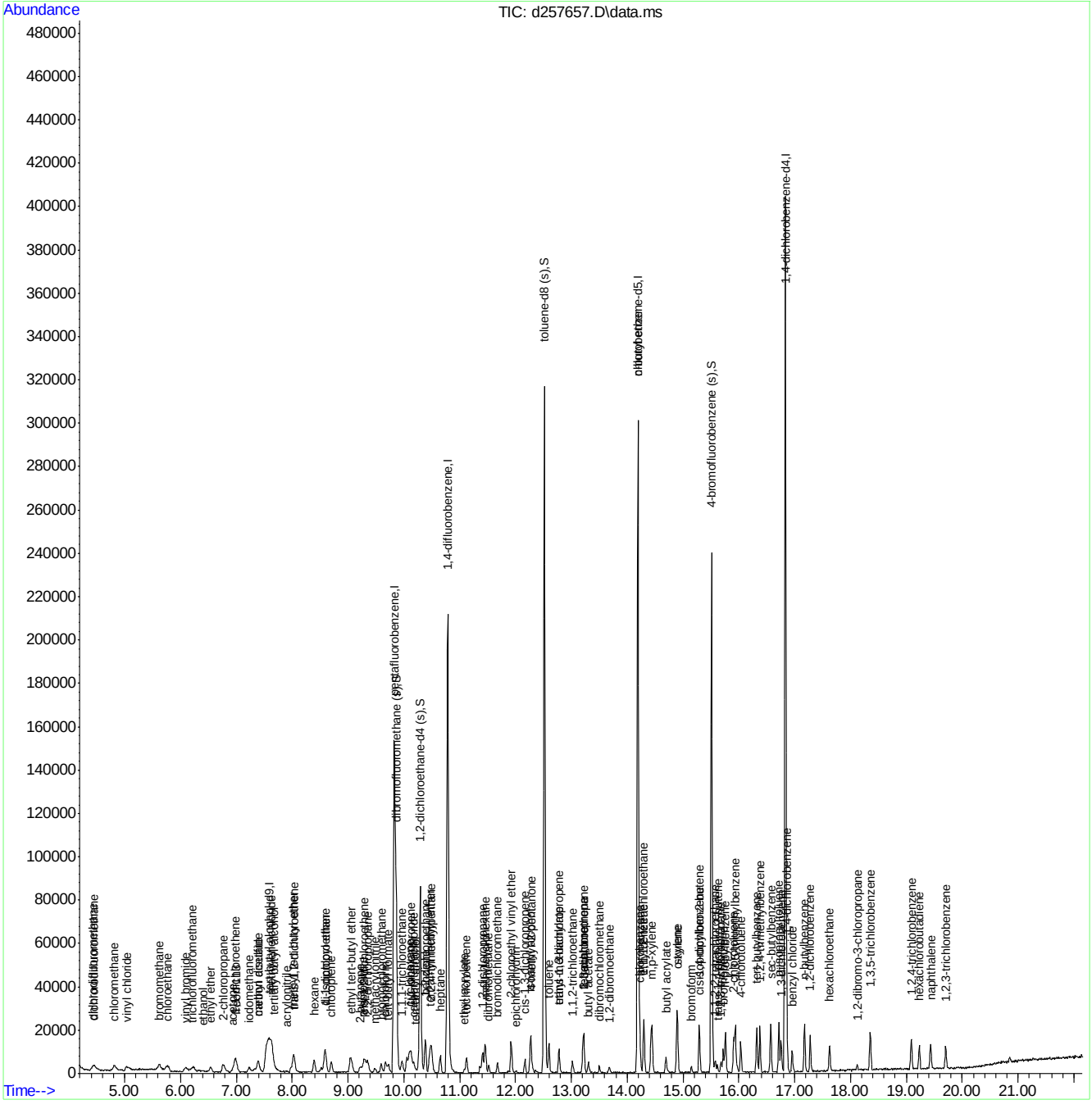
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
106) 4-chlorotoluene	16.040	91	9709	2.00 ug/L	94
107) 1,3,5-trimethylbenzene	15.941	105	13085	1.96 ug/L	98
108) tert-butylbenzene	16.323	119	11410	1.96 ug/L	98
109) 1,2,4-trimethylbenzene	16.380	105	13149	1.97 ug/L	97
110) sec-butylbenzene	16.574	105	17155	1.95 ug/L	98
111) p-isopropyltoluene	16.720	119	15043	1.98 ug/L	97
112) 1,3-dichlorobenzene	16.762	146	7103	2.02 ug/L	94
113) 1,4-dichlorobenzene	16.866	146	7411	2.06 ug/L	93
114) 1,2-dichlorobenzene	17.279	146	7733	2.03 ug/L	97
115) benzyl chloride	16.955	91	8489	2.10 ug/L	98
116) n-butylbenzene	17.180	92	7626	2.00 ug/L	98
118) hexachloroethane	17.624	201	2351	1.92 ug/L	86
119) 1,2-dibromo-3-chloropr...	18.126	75	815	1.98 ug/L	92
120) 1,3,5-trichlorobenzene	18.351	180	6814	1.92 ug/L	97
121) 1,2,4-trichlorobenzene	19.088	180	5185	1.78 ug/L	92
122) hexachlorobutadiene	19.235	225	2785	1.88 ug/L	83
123) naphthalene	19.438	128	11138	1.83 ug/L	98
124) 1,2,3-trichlorobenzene	19.710	180	4737	1.90 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257657.D
Acq On : 6 Jun 2018 6:59 pm
Operator : thienn
Sample : IC10401-2
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 09:08:11 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:36:26 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257658.D
Acq On : 6 Jun 2018 7:28 pm
Operator : thienn
Sample : IC10401-4
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 10:24:20 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.607	65	73955	500.00	ug/L	0.03
5) pentafluorobenzene	9.829	168	119069	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.786	114	183568	50.00	ug/L	0.00
75) chlorobenzene-d5	14.194	117	168015	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.835	152	113348	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.866	113	56917	52.79	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 105.58%			
55) 1,2-dichloroethane-d4 (s)	10.294	65	69032	55.88	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 111.76%			
76) toluene-d8 (s)	12.516	98	226050	53.36	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 106.72%			
99) 4-bromofluorobenzene (s)	15.512	95	85601	48.68	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 97.36%			

Target Compounds						Qvalue
2) ethanol	6.379	45	8476	389.76	ug/L	92
3) tertiary butyl alcohol	7.696	59	3917	20.58	ug/L	76
4) 1,4-dioxane	11.460	88	1589	90.47	ug/L	82
6) chlorodifluoromethane	4.449	51	12529	4.21	ug/L	90
7) dichlorodifluoromethane	4.439	85	13337	4.60	ug/L	98
8) chloromethane	4.810	50	13825	4.04	ug/L	94
10) vinyl chloride	5.051	62	12803	3.97	ug/L	97
11) bromomethane	5.626	94	7158	3.68	ug/L	93
12) chloroethane	5.772	64	6935	4.12	ug/L	95
13) trichlorofluoromethane	6.216	101	12819	4.47	ug/L	89
14) vinyl bromide	6.096	106	6681	3.74	ug/L	96
15) ethyl ether	6.535	74	2730	4.05	ug/L	85
16) 2-chloropropane	6.776	43	13101	4.71	ug/L	92
18) freon 113	7.011	151	5806	4.56	ug/L	96
19) 1,1-dichloroethene	6.975	96	6796	4.37	ug/L	96
20) acetone	6.943	58	1607	17.04	ug/L #	60
21) acetonitrile	7.335	41	9531	46.72	ug/L	98
22) iodomethane	7.236	142	9760	3.92	ug/L	97
23) carbon disulfide	7.398	76	21971	4.09	ug/L	100
24) methylene chloride	7.644	84	7428	4.89	ug/L	97
25) methyl acetate	7.388	43	3955	4.57	ug/L	91
26) methyl tert butyl ether	8.020	73	22062	4.60	ug/L	95
27) trans-1,2-dichloroethene	8.036	96	6175	4.24	ug/L	88
28) hexane	8.397	56	3939	4.60	ug/L	82
29) di-isopropyl ether	8.595	45	22846	4.39	ug/L	98
30) 2-butanone	9.217	72	1912	16.10	ug/L #	87
31) 1,1-dichloroethane	8.590	63	10370	4.48	ug/L	93
32) chloroprene	8.700	53	8783	4.64	ug/L	95
33) acrylonitrile	7.889	53	1588	4.15	ug/L	87
34) vinyl acetate	8.522	86	747	3.37	ug/L #	64
35) ethyl tert-butyl ether	9.050	59	23388	4.52	ug/L	96
36) ethyl acetate	9.259	45	702	4.37	ug/L #	1
37) 2,2-dichloropropane	9.348	77	11969	4.96	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257658.D
Acq On : 6 Jun 2018 7:28 pm
Operator : thienn
Sample : IC10401-4
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 10:24:20 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) cis-1,2-dichloroethene	9.301	96	6057	3.99	ug/L		90
39) propionitrile	9.264	54	8368	43.78	ug/L		96
40) methyl acrylate	9.332	85	503	3.25	ug/L	#	27
41) methacrylonitrile	9.474	67	1887	4.26	ug/L		83
42) bromochloromethane	9.594	128	2675	4.23	ug/L		95
43) tetrahydrofuran	9.630	42	1532	4.19	ug/L		89
44) chloroform	9.677	83	10265	4.52	ug/L		93
45) tert-butyl formate	9.730	59	6473	8.58	ug/L		97
47) 1,1,1-trichloroethane	9.970	97	11295	4.73	ug/L		98
48) cyclohexane	10.106	84	12588	4.56	ug/L		83
50) 1,1-dichloropropene	10.137	75	7848	4.72	ug/L		93
51) carbon tetrachloride	10.179	117	9430	4.90	ug/L		97
52) tert-amyl alcohol	10.232	73	1977	21.57	ug/L		93
53) isopropyl acetate	10.273	87	1130	4.28	ug/L	#	67
56) n-butyl alcohol	10.807	56	13738	278.02	ug/L		80
57) 2,2,4-trimethylpentane	10.498	57	27132	5.45	ug/L		98
58) benzene	10.383	78	23451	4.23	ug/L		97
59) tert-amyl methyl ether	10.472	73	21491	4.28	ug/L		97
60) heptane	10.655	57	4459	4.83	ug/L		90
61) 1,2-dichloroethane	10.388	62	7816	4.69	ug/L		99
62) ethyl acrylate	11.084	55	5963	4.53	ug/L		98
63) trichloroethene	11.126	95	5454	4.44	ug/L		94
64) 2-chloroethyl vinyl ether	11.925	63	14702	20.78	ug/L		96
65) methyl methacrylate	11.361	100	1019	3.34	ug/L	#	84
66) methylcyclohexane	11.455	83	13199	4.49	ug/L		96
67) 1,2-dichloropropane	11.413	63	6056	4.50	ug/L		97
68) dibromomethane	11.528	93	3270	4.67	ug/L		95
69) bromodichloromethane	11.680	83	7573	4.52	ug/L		87
70) 2-nitropropane	11.873	41	1134	3.90	ug/L		93
71) epichlorohydrin	12.009	57	2672	20.95	ug/L		98
72) cis-1,3-dichloropropene	12.171	75	9312	4.44	ug/L		92
73) 4-methyl-2-pentanone	12.271	58	8923	18.25	ug/L		99
74) isoamyl alcohol	12.265	70	3832	85.82	ug/L	#	79
77) toluene	12.600	92	14272	4.45	ug/L		96
78) ethyl methacrylate	12.783	69	6803	4.58	ug/L		93
79) trans-1,3-dichloropropene	12.778	75	8066	4.59	ug/L		99
80) 1,1,2-trichloroethane	13.018	83	3783	4.51	ug/L		94
81) tetrachloroethene	13.222	164	4468	4.47	ug/L		90
82) 2-hexanone	13.206	58	7777	19.76	ug/L		99
83) 1,3-dichloropropane	13.227	76	7824	4.42	ug/L		97
84) butyl acetate	13.306	56	3675	5.20	ug/L		97
85) dibromochloromethane	13.504	129	5345	4.73	ug/L		96
86) 1,2-dibromoethane	13.682	107	4783	4.60	ug/L		95
87) n-butyl ether	14.194	57	30907	5.04	ug/L		91
88) chlorobenzene	14.231	112	15035	4.33	ug/L		97
89) 1,1,1,2-tetrachloroethane	14.299	131	6560	4.69	ug/L		92
90) ethylbenzene	14.304	91	26901	4.40	ug/L		98
91) m,p-xylene	14.435	106	20128	8.74	ug/L		92
92) o-xylene	14.890	91	23163	4.29	ug/L		100
93) styrene	14.900	104	16516	4.22	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257658.D
Acq On : 6 Jun 2018 7:28 pm
Operator : thienn
Sample : IC10401-4
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 10:24:20 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

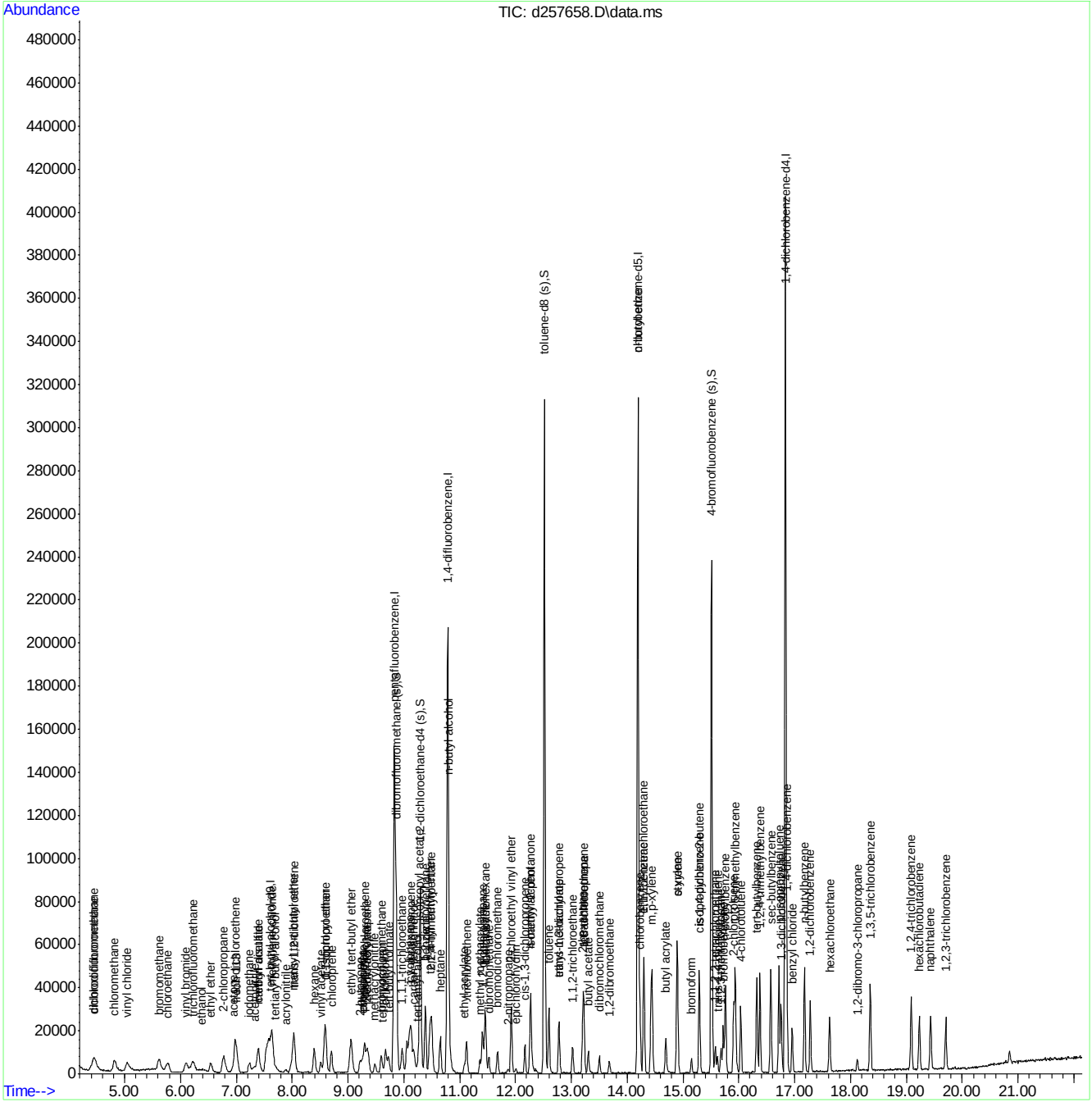
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
94) butyl acrylate	14.691	55	12877	5.18 ug/L	98
95) isopropylbenzene	15.292	105	31109	4.56 ug/L	99
96) bromoform	15.151	173	3668	5.09 ug/L	99
97) cis-1,4-dichloro-2-butene	15.303	88	2397	5.04 ug/L	87
100) 1,1,2,2-tetrachloroethane	15.580	83	7292	4.40 ug/L	98
101) trans-1,4-dichloro-2-b...	15.616	53	1961	5.74 ug/L	86
102) 1,2,3-trichloropropane	15.684	110	2116	4.80 ug/L	97
103) bromobenzene	15.726	156	6620	4.00 ug/L #	82
104) n-propylbenzene	15.763	91	34944	4.35 ug/L	99
105) 2-chlorotoluene	15.914	126	7094m	4.29 ug/L	
106) 4-chlorotoluene	16.035	91	20496	4.15 ug/L	98
107) 1,3,5-trimethylbenzene	15.941	105	28221	4.30 ug/L	97
108) tert-butylbenzene	16.327	119	23775	4.27 ug/L	95
109) 1,2,4-trimethylbenzene	16.380	105	28655	4.25 ug/L	99
110) sec-butylbenzene	16.573	105	36646	4.38 ug/L	99
111) p-isopropyltoluene	16.720	119	31401	4.35 ug/L	97
112) 1,3-dichlorobenzene	16.761	146	14934	4.04 ug/L	96
113) 1,4-dichlorobenzene	16.866	146	15031	3.92 ug/L	95
114) 1,2-dichlorobenzene	17.279	146	15943	4.06 ug/L	92
115) benzyl chloride	16.955	91	17425	4.55 ug/L	96
116) n-butylbenzene	17.180	92	15845	4.24 ug/L	95
118) hexachloroethane	17.629	201	4906	4.40 ug/L	96
119) 1,2-dibromo-3-chloropr...	18.115	75	1663	4.42 ug/L	92
120) 1,3,5-trichlorobenzene	18.351	180	14361	3.87 ug/L	97
121) 1,2,4-trichlorobenzene	19.093	180	11725	3.85 ug/L	88
122) hexachlorobutadiene	19.234	225	6201	4.52 ug/L	97
123) naphthalene	19.433	128	24137	3.74 ug/L	98
124) 1,2,3-trichlorobenzene	19.710	180	9764	3.88 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257658.D
Acq On : 6 Jun 2018 7:28 pm
Operator : thienn
Sample : IC10401-4
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

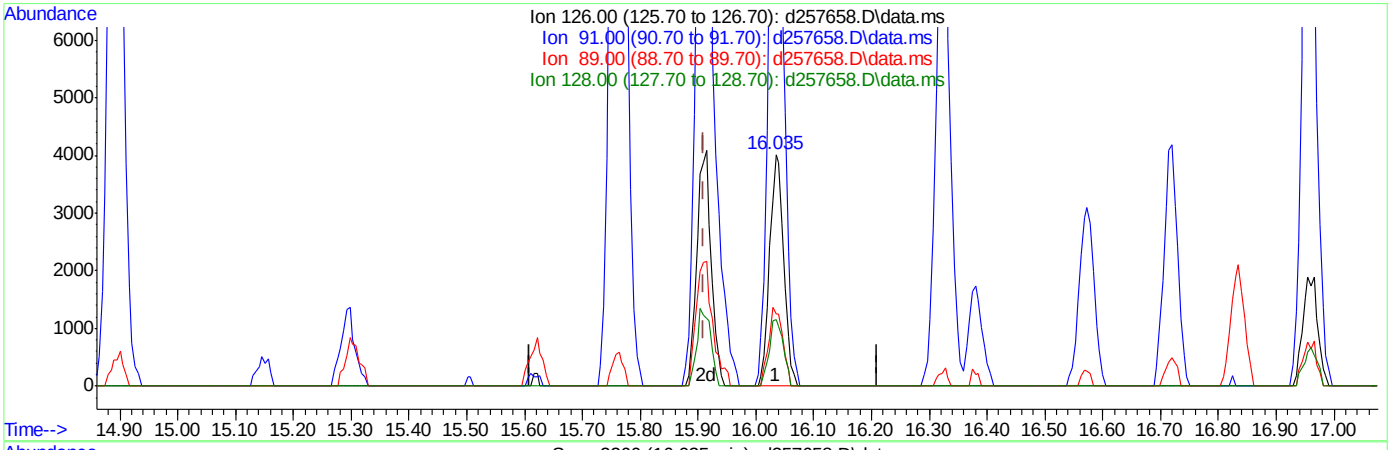
Quant Time: Jun 08 10:24:20 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

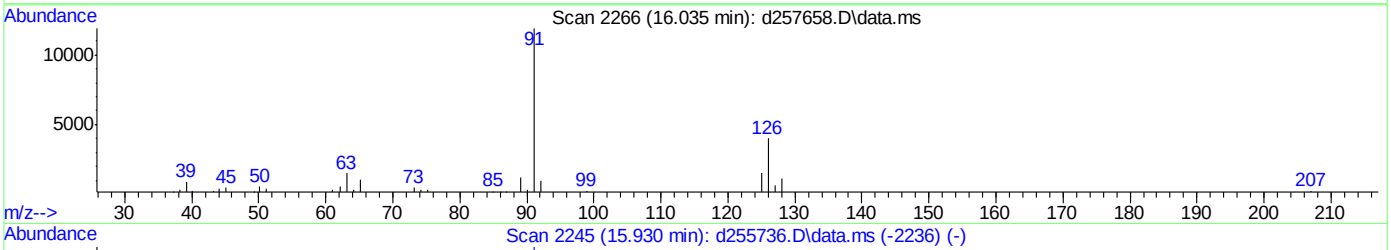


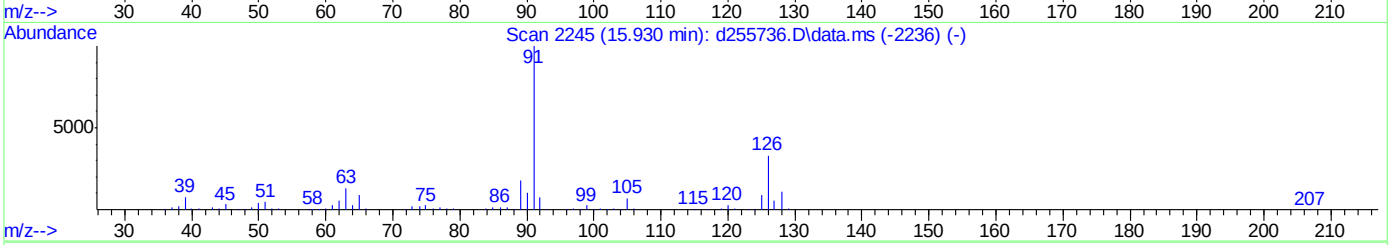
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257658.D
Acq On : 6 Jun 2018 7:28 pm
Operator : thienn
Sample : IC10401-4
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 07 09:09:02 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration







TIC: d257658.D\data.ms

(105) 2-chlorotoluene

16.035min (+0.125) 4.09ug/L

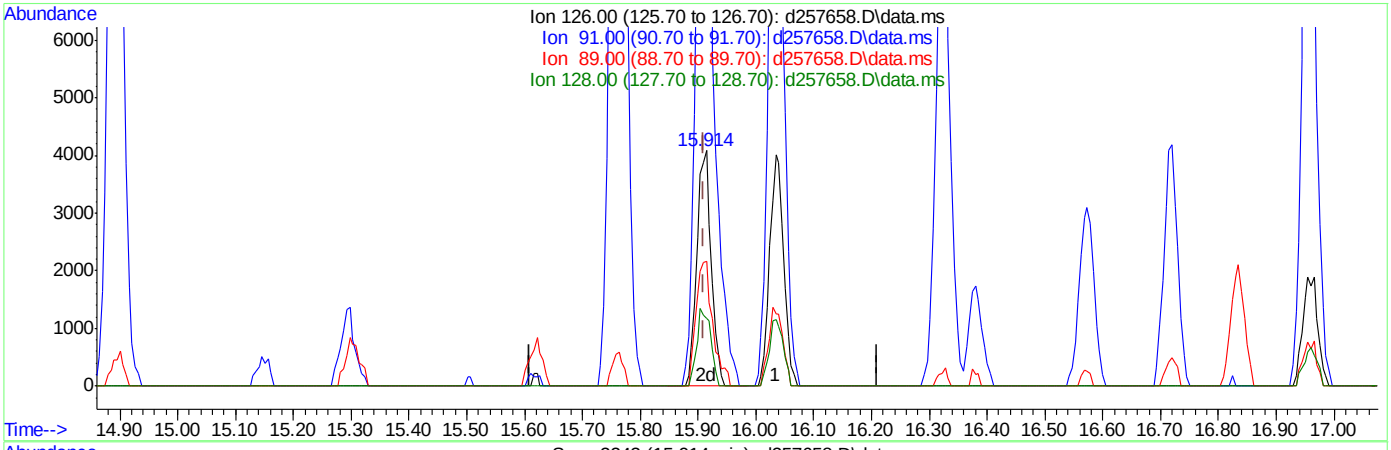
response 6762

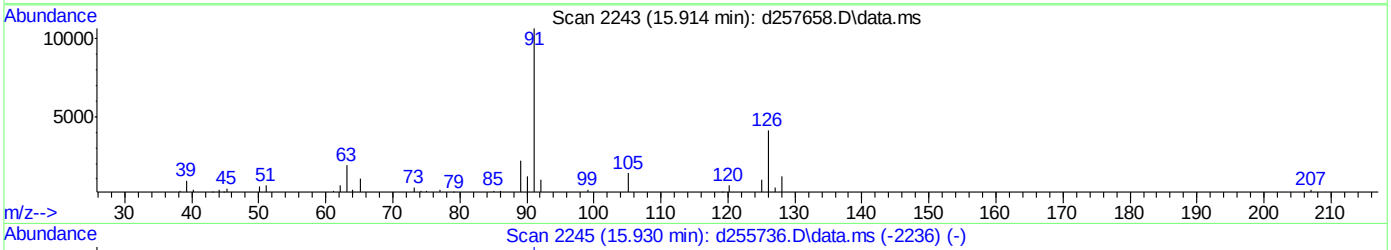
Ion	Exp%	Act%
126.00	100	100
91.00	299.20	296.61
89.00	53.40	30.90
128.00	33.70	28.74

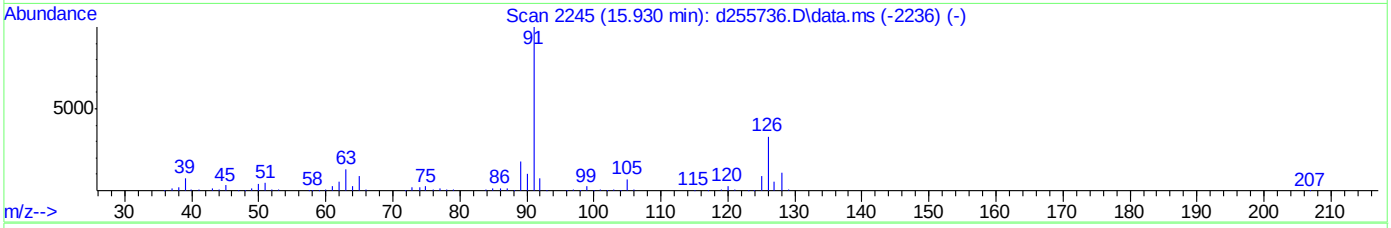
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257658.D
Acq On : 6 Jun 2018 7:28 pm
Operator : thienn
Sample : IC10401-4
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 07 09:09:02 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration







TIC: d257658.D\data.ms

(105) 2-chlorotoluene

15.914min (+0.004) 4.29ug/L m

response 7094

Ion	Exp%	Act%
126.00	100	100
91.00	299.20	261.02#
89.00	53.40	52.83
128.00	33.70	28.90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257659.D
Acq On : 6 Jun 2018 7:58 pm
Operator : thienn
Sample : IC10401-8
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 09:11:25 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.592	65	73575	500.00	ug/L	0.02
5) pentafluorobenzene	9.830	168	119367	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.787	114	185406	50.00	ug/L	0.00
75) chlorobenzene-d5	14.195	117	170087	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.835	152	112486	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.861	113	58132	53.78	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 107.56%			
55) 1,2-dichloroethane-d4 (s)	10.295	65	69398	55.62	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 111.24%			
76) toluene-d8 (s)	12.517	98	226387	52.79	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.58%			
99) 4-bromofluorobenzene (s)	15.513	95	85062	48.75	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 97.50%			

Target Compounds						Qvalue
2) ethanol	6.395	45	15590	720.58	ug/L	94
3) tertiary butyl alcohol	7.681	59	7291	38.50	ug/L	76
4) 1,4-dioxane	11.466	88	3241	185.47	ug/L	89
6) chlorodifluoromethane	4.450	51	23407	7.85	ug/L	99
7) dichlorodifluoromethane	4.440	85	27092	9.31	ug/L	98
8) chloromethane	4.816	50	27515	8.02	ug/L	99
10) vinyl chloride	5.051	62	25333	7.84	ug/L	97
11) bromomethane	5.611	94	14195	7.28	ug/L	93
12) chloroethane	5.778	64	13567	8.03	ug/L	95
13) trichlorofluoromethane	6.223	101	25196	8.76	ug/L	97
14) vinyl bromide	6.108	106	13578	7.59	ug/L	96
15) ethyl ether	6.536	74	5568	8.23	ug/L	90
16) 2-chloropropane	6.777	43	24273	8.71	ug/L	98
17) acrolein	6.761	56	2127	9.47	ug/L	87
18) freon 113	7.007	151	10964	8.59	ug/L	93
19) 1,1-dichloroethene	6.981	96	13321	8.54	ug/L	84
20) acetone	6.939	58	2987	31.59	ug/L #	61
21) acetonitrile	7.315	41	17045	83.35	ug/L	92
22) iodomethane	7.232	142	18757	7.52	ug/L	91
23) carbon disulfide	7.399	76	41776	7.76	ug/L	97
24) methylene chloride	7.634	84	13621	8.95	ug/L	95
25) methyl acetate	7.383	43	6968	8.04	ug/L	97
26) methyl tert butyl ether	8.011	73	40098	8.34	ug/L	95
27) trans-1,2-dichloroethene	8.031	96	11550	7.91	ug/L	94
28) hexane	8.392	56	7985	9.30	ug/L	89
29) di-isopropyl ether	8.591	45	42754	8.19	ug/L	99
30) 2-butanone	9.213	72	3754	31.53	ug/L #	80
31) 1,1-dichloroethane	8.591	63	20189	8.70	ug/L	95
32) chloroprene	8.695	53	17476	9.22	ug/L	96
33) acrylonitrile	7.885	53	3065	7.99	ug/L	91
34) vinyl acetate	8.518	86	1669	7.51	ug/L #	70
35) ethyl tert-butyl ether	9.046	59	43124	8.31	ug/L	99
36) ethyl acetate	9.239	45	1405	8.73	ug/L #	64

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257659.D
Acq On : 6 Jun 2018 7:58 pm
Operator : thienn
Sample : IC10401-8
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 09:11:25 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2-dichloropropane	9.359	77	22476	9.29	ug/L		97
38) cis-1,2-dichloroethene	9.302	96	12108	7.96	ug/L		95
39) propionitrile	9.265	54	16358	85.37	ug/L		98
40) methyl acrylate	9.323	85	1069	6.89	ug/L	#	80
41) methacrylonitrile	9.485	67	3647	8.22	ug/L		93
42) bromochloromethane	9.589	128	5283	8.33	ug/L		93
43) tetrahydrofuran	9.626	42	2978	8.13	ug/L		94
44) chloroform	9.673	83	19210	8.44	ug/L		98
45) tert-butyl formate	9.725	59	12236	16.19	ug/L		98
47) 1,1,1-trichloroethane	9.966	97	21980	9.19	ug/L		95
48) cyclohexane	10.102	84	26711	9.64	ug/L		89
50) 1,1-dichloropropene	10.133	75	15139	9.08	ug/L		97
51) carbon tetrachloride	10.175	117	18098	9.39	ug/L		93
52) tert-amyl alcohol	10.227	73	4055	44.13	ug/L		86
53) isopropyl acetate	10.264	87	2187	8.26	ug/L	#	91
56) n-butyl alcohol	10.807	56	23107	462.99	ug/L		91
57) 2,2,4-trimethylpentane	10.499	57	53026	10.55	ug/L		98
58) benzene	10.384	78	44502	7.94	ug/L		98
59) tert-amyl methyl ether	10.462	73	41078	8.10	ug/L		97
60) heptane	10.656	57	9378	10.07	ug/L		96
61) 1,2-dichloroethane	10.389	62	14125	8.39	ug/L		99
62) ethyl acrylate	11.085	55	11121	8.37	ug/L		96
63) trichloroethene	11.126	95	10759	8.67	ug/L		93
64) 2-chloroethyl vinyl ether	11.921	63	28769	40.26	ug/L		99
65) methyl methacrylate	11.367	100	2295	7.45	ug/L	#	85
66) methylcyclohexane	11.456	83	25135	8.47	ug/L		96
67) 1,2-dichloropropane	11.409	63	11332	8.34	ug/L		96
68) dibromomethane	11.524	93	6395	9.04	ug/L		92
69) bromodichloromethane	11.675	83	15027	8.87	ug/L		98
70) 2-nitropropane	11.869	41	2419	8.24	ug/L		90
71) epichlorohydrin	12.010	57	5403	41.93	ug/L		89
72) cis-1,3-dichloropropene	12.172	75	17906	8.45	ug/L		92
73) 4-methyl-2-pentanone	12.271	58	16817	34.06	ug/L		94
74) isoamyl alcohol	12.266	70	7677	170.23	ug/L	#	85
77) toluene	12.601	92	26832	8.27	ug/L		98
78) ethyl methacrylate	12.778	69	12780	8.50	ug/L		96
79) trans-1,3-dichloropropene	12.778	75	15433	8.68	ug/L		99
80) 1,1,2-trichloroethane	13.024	83	7119	8.39	ug/L		96
81) tetrachloroethene	13.228	164	8786	8.67	ug/L		97
82) 2-hexanone	13.202	58	14698	36.90	ug/L		99
83) 1,3-dichloropropane	13.228	76	14867	8.30	ug/L		99
84) butyl acetate	13.301	56	7095	9.92	ug/L		97
85) dibromochloromethane	13.505	129	9976	8.73	ug/L		98
86) 1,2-dibromoethane	13.683	107	8742	8.30	ug/L		100
87) n-butyl ether	14.195	57	57392	9.24	ug/L		94
88) chlorobenzene	14.227	112	27816	7.92	ug/L		96
89) 1,1,1,2-tetrachloroethane	14.300	131	12613	8.90	ug/L		96
90) ethylbenzene	14.305	91	51269	8.28	ug/L		99
91) m,p-xylene	14.436	106	38858	16.68	ug/L		94
92) o-xylene	14.891	91	44757	8.19	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257659.D
Acq On : 6 Jun 2018 7:58 pm
Operator : thienn
Sample : IC10401-8
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 09:11:25 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) styrene	14.901	104	32594	8.23 ug/L	99
94) butyl acrylate	14.687	55	23722	9.42 ug/L	96
95) isopropylbenzene	15.293	105	59092	8.55 ug/L	99
96) bromoform	15.152	173	6540	8.97 ug/L	99
97) cis-1,4-dichloro-2-butene	15.304	88	4314	8.95 ug/L	95
100) 1,1,2,2-tetrachloroethane	15.575	83	13033	7.92 ug/L	95
101) trans-1,4-dichloro-2-b...	15.617	53	3582	10.57 ug/L	99
102) 1,2,3-trichloropropane	15.680	110	3523	8.05 ug/L	96
103) bromobenzene	15.722	156	13057	7.95 ug/L	95
104) n-propylbenzene	15.764	91	66407	8.33 ug/L	98
105) 2-chlorotoluene	15.910	126	13344	8.14 ug/L	97
106) 4-chlorotoluene	16.035	91	38254	7.81 ug/L	98
107) 1,3,5-trimethylbenzene	15.941	105	52613	8.08 ug/L	98
108) tert-butylbenzene	16.323	119	47106	8.54 ug/L	97
109) 1,2,4-trimethylbenzene	16.381	105	53750	8.03 ug/L	97
110) sec-butylbenzene	16.574	105	70872	8.53 ug/L	99
111) p-isopropyltoluene	16.715	119	60052	8.38 ug/L	99
112) 1,3-dichlorobenzene	16.757	146	28007	7.63 ug/L	95
113) 1,4-dichlorobenzene	16.862	146	28486	7.48 ug/L	100
114) 1,2-dichlorobenzene	17.280	146	29499	7.58 ug/L	96
115) benzyl chloride	16.956	91	31201	8.21 ug/L	99
116) n-butylbenzene	17.180	92	30965	8.36 ug/L	100
117) 2-ethylhexyl acrylate	19.083	70	1536	0.82 ug/L	94
118) hexachloroethane	17.625	201	9628	8.70 ug/L	97
119) 1,2-dibromo-3-chloropr...	18.121	75	3126	8.37 ug/L	93
120) 1,3,5-trichlorobenzene	18.357	180	27606	7.49 ug/L	99
121) 1,2,4-trichlorobenzene	19.089	180	22877	7.56 ug/L	99
122) hexachlorobutadiene	19.235	225	12343	9.06 ug/L	99
123) naphthalene	19.439	128	47727	7.45 ug/L	98
124) 1,2,3-trichlorobenzene	19.706	180	19482	7.80 ug/L	94
125) 2-methylnaphthalene	20.850	142	7028	3.29 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

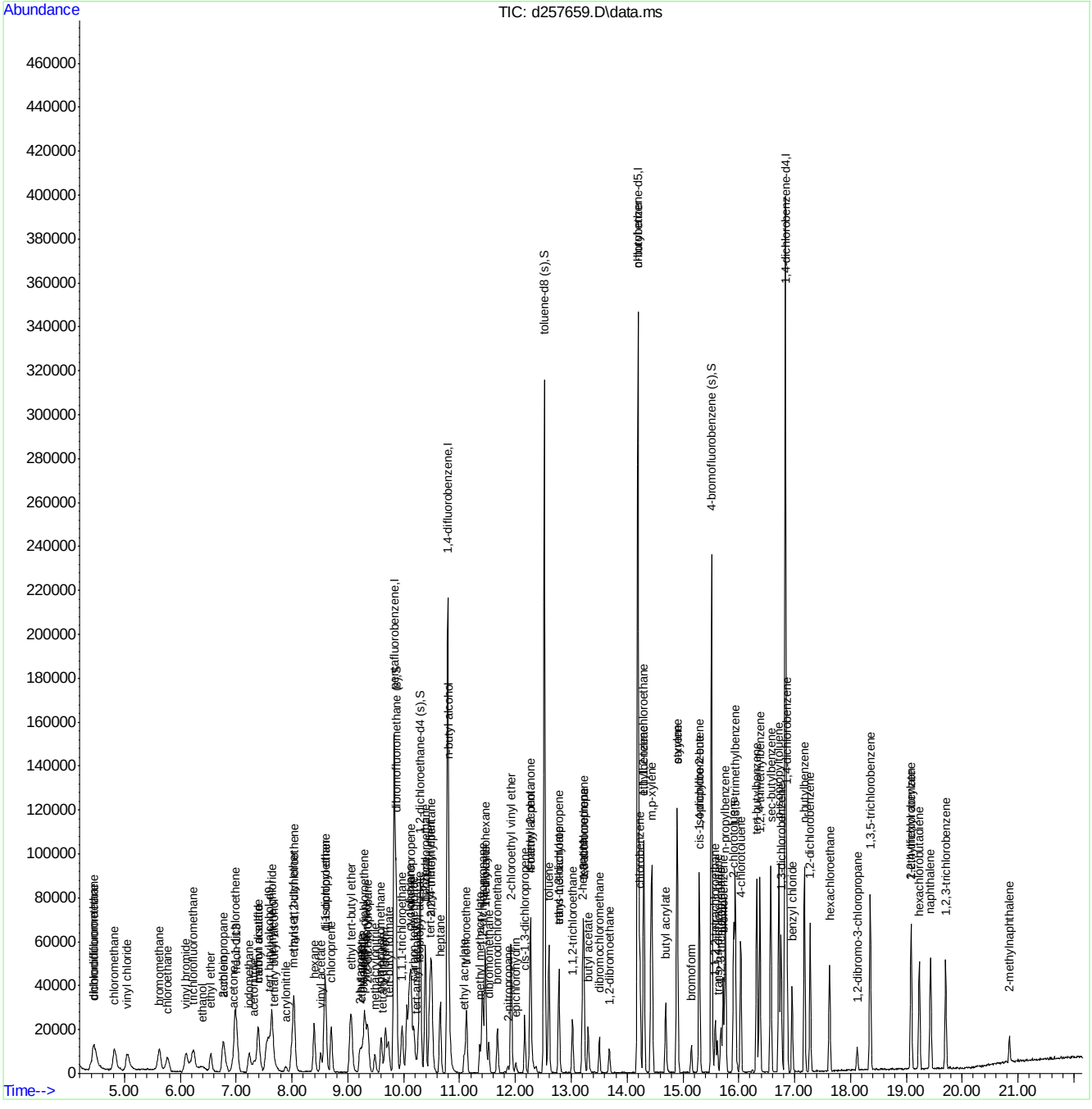
7.7.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257659.D
Acq On : 6 Jun 2018 7:58 pm
Operator : thienn
Sample : IC10401-8
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 09:11:25 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257660.D
Acq On : 6 Jun 2018 8:27 pm
Operator : thienn
Sample : IC10401-20
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 09:11:42 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.561	65	69561	500.00	ug/L	-0.02
5) pentafluorobenzene	9.830	168	116744	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.787	114	181969	50.00	ug/L	0.00
75) chlorobenzene-d5	14.190	117	168355	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.836	152	110631	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.867	113	57096	54.01	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 108.02%			
55) 1,2-dichloroethane-d4 (s)	10.295	65	68558	55.98	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 111.96%			
76) toluene-d8 (s)	12.517	98	226361	53.32	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 106.64%			
99) 4-bromofluorobenzene (s)	15.513	95	84025	48.96	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 97.92%			

Target Compounds						Qvalue
2) ethanol	6.390	45	37142	1815.80	ug/L	93
3) tertiary butyl alcohol	7.697	59	18815	105.10	ug/L	93
4) 1,4-dioxane	11.456	88	8432	510.38	ug/L	93
6) chlorodifluoromethane	4.461	51	58855	20.18	ug/L	98
7) dichlorodifluoromethane	4.435	85	67392	23.69	ug/L	95
8) chloromethane	4.816	50	68523	20.43	ug/L	99
10) vinyl chloride	5.046	62	63328	20.04	ug/L	96
11) bromomethane	5.622	94	36046	18.90	ug/L	98
12) chloroethane	5.768	64	32763	19.84	ug/L	92
13) trichlorofluoromethane	6.228	101	62106	22.07	ug/L	97
14) vinyl bromide	6.097	106	33806	19.32	ug/L	93
15) ethyl ether	6.542	74	13999	21.17	ug/L	94
16) 2-chloropropane	6.772	43	59945	21.99	ug/L	97
17) acrolein	6.740	56	5556	25.30	ug/L	87
18) freon 113	7.002	151	27833	22.30	ug/L	99
19) 1,1-dichloroethene	6.976	96	31858	20.88	ug/L	95
20) acetone	6.929	58	8018	86.71	ug/L #	81
21) acetonitrile	7.326	41	43595	217.97	ug/L	97
22) iodomethane	7.237	142	46728	19.16	ug/L	100
23) carbon disulfide	7.394	76	103748	19.70	ug/L	99
24) methylene chloride	7.640	84	34310	23.04	ug/L	98
25) methyl acetate	7.383	43	18390	21.69	ug/L	96
26) methyl tert butyl ether	8.016	73	106787	22.70	ug/L	97
27) trans-1,2-dichloroethene	8.032	96	27615	19.33	ug/L	99
28) hexane	8.398	56	19967	23.77	ug/L	94
29) di-isopropyl ether	8.591	45	108840	21.33	ug/L	99
30) 2-butanone	9.213	72	9882	84.86	ug/L	93
31) 1,1-dichloroethane	8.591	63	51776	22.81	ug/L	96
32) chloroprene	8.701	53	43418	23.41	ug/L	95
33) acrylonitrile	7.885	53	8035	21.43	ug/L	85
34) vinyl acetate	8.513	86	4698	21.60	ug/L #	92
35) ethyl tert-butyl ether	9.046	59	117300	23.12	ug/L	97
36) ethyl acetate	9.234	45	3581	22.76	ug/L #	73

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257660.D
Acq On : 6 Jun 2018 8:27 pm
Operator : thienn
Sample : IC10401-20
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 09:11:42 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2-dichloropropane	9.354	77	56524	23.89	ug/L		99
38) cis-1,2-dichloroethene	9.297	96	30648	20.61	ug/L		92
39) propionitrile	9.265	54	41705	222.53	ug/L		99
40) methyl acrylate	9.323	85	3238	21.35	ug/L	#	71
41) methacrylonitrile	9.480	67	9693	22.34	ug/L		94
42) bromochloromethane	9.595	128	13920	22.45	ug/L		98
43) tetrahydrofuran	9.626	42	8040	22.45	ug/L		98
44) chloroform	9.673	83	48662	21.85	ug/L		98
45) tert-butyl formate	9.726	59	31736	42.93	ug/L		98
47) 1,1,1-trichloroethane	9.971	97	55605	23.76	ug/L		99
48) cyclohexane	10.112	84	63514	23.45	ug/L		90
50) 1,1-dichloropropene	10.133	75	38579	23.67	ug/L		96
51) carbon tetrachloride	10.175	117	46479	24.65	ug/L		97
52) tert-amyl alcohol	10.227	73	9709	108.03	ug/L		92
53) isopropyl acetate	10.264	87	5875	22.68	ug/L	#	92
56) n-butyl alcohol	10.803	56	52263	1066.95	ug/L		93
57) 2,2,4-trimethylpentane	10.499	57	139235	28.23	ug/L		99
58) benzene	10.384	78	114195	20.76	ug/L		99
59) tert-amyl methyl ether	10.468	73	107326	21.56	ug/L		100
60) heptane	10.651	57	23127	25.30	ug/L		98
61) 1,2-dichloroethane	10.384	62	36855	22.30	ug/L		99
62) ethyl acrylate	11.080	55	29347	22.51	ug/L		97
63) trichloroethene	11.121	95	27382	22.49	ug/L		97
64) 2-chloroethyl vinyl ether	11.921	63	74386	106.06	ug/L		100
65) methyl methacrylate	11.362	100	6300	20.83	ug/L		95
66) methylcyclohexane	11.456	83	65267	22.40	ug/L		97
67) 1,2-dichloropropane	11.409	63	29773	22.31	ug/L		98
68) dibromomethane	11.519	93	16232	23.37	ug/L		97
69) bromodichloromethane	11.676	83	37868	22.78	ug/L		94
70) 2-nitropropane	11.869	41	6369	22.10	ug/L		95
71) epichlorohydrin	12.010	57	14527	114.88	ug/L		96
72) cis-1,3-dichloropropene	12.167	75	46295	22.27	ug/L		99
73) 4-methyl-2-pentanone	12.272	58	43206	89.15	ug/L		93
74) isoamyl alcohol	12.261	70	19893	449.43	ug/L		89
77) toluene	12.601	92	69932	21.77	ug/L		97
78) ethyl methacrylate	12.779	69	34169	22.95	ug/L		98
79) trans-1,3-dichloropropene	12.779	75	39545	22.47	ug/L		98
80) 1,1,2-trichloroethane	13.019	83	18506	22.04	ug/L		97
81) tetrachloroethene	13.223	164	22557	22.50	ug/L		95
82) 2-hexanone	13.202	58	37618	95.40	ug/L		97
83) 1,3-dichloropropane	13.223	76	38873	21.92	ug/L		98
84) butyl acetate	13.302	56	17872	25.24	ug/L		98
85) dibromochloromethane	13.505	129	26832	23.71	ug/L		98
86) 1,2-dibromoethane	13.683	107	23461	22.51	ug/L		96
87) n-butyl ether	14.195	57	144095	23.44	ug/L		99
88) chlorobenzene	14.227	112	72239	20.78	ug/L		99
89) 1,1,1,2-tetrachloroethane	14.300	131	32701	23.32	ug/L		98
90) ethylbenzene	14.300	91	132709	21.65	ug/L		99
91) m,p-xylene	14.436	106	100998	43.79	ug/L		98
92) o-xylene	14.891	91	116316	21.49	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257660.D
Acq On : 6 Jun 2018 8:27 pm
Operator : thienn
Sample : IC10401-20
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 09:11:42 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) styrene	14.901	104	83507	21.31 ug/L	97
94) butyl acrylate	14.687	55	60440	24.26 ug/L	98
95) isopropylbenzene	15.293	105	154028	22.52 ug/L	99
96) bromoform	15.152	173	17725	24.55 ug/L	99
97) cis-1,4-dichloro-2-butene	15.304	88	11735	24.60 ug/L	97
100) 1,1,2,2-tetrachloroethane	15.576	83	34497	21.31 ug/L	99
101) trans-1,4-dichloro-2-b...	15.618	53	9031	27.10 ug/L	98
102) 1,2,3-trichloropropane	15.680	110	9454	21.97 ug/L	92
103) bromobenzene	15.722	156	33176	20.54 ug/L	93
104) n-propylbenzene	15.764	91	168825	21.54 ug/L	97
105) 2-chlorotoluene	15.910	126	34051	21.12 ug/L	97
106) 4-chlorotoluene	16.036	91	99628	20.68 ug/L	99
107) 1,3,5-trimethylbenzene	15.936	105	138198	21.57 ug/L	98
108) tert-butylbenzene	16.323	119	123713	22.79 ug/L	99
109) 1,2,4-trimethylbenzene	16.381	105	138856	21.10 ug/L	98
110) sec-butylbenzene	16.569	105	187105	22.90 ug/L	98
111) p-isopropyltoluene	16.715	119	159483	22.63 ug/L	100
112) 1,3-dichlorobenzene	16.757	146	71821	19.88 ug/L	99
113) 1,4-dichlorobenzene	16.862	146	73338	19.59 ug/L	97
114) 1,2-dichlorobenzene	17.280	146	77437	20.22 ug/L	98
115) benzyl chloride	16.956	91	82683	22.13 ug/L	97
116) n-butylbenzene	17.181	92	81932	22.48 ug/L	99
117) 2-ethylhexyl acrylate	19.084	70	5000	2.70 ug/L	85
118) hexachloroethane	17.630	201	25933	23.82 ug/L	98
119) 1,2-dibromo-3-chloropr...	18.116	75	8425	22.93 ug/L	94
120) 1,3,5-trichlorobenzene	18.357	180	75906	20.94 ug/L	99
121) 1,2,4-trichlorobenzene	19.089	180	64812	21.79 ug/L	93
122) hexachlorobutadiene	19.235	225	32472	24.23 ug/L	94
123) naphthalene	19.434	128	132981	21.10 ug/L	99
124) 1,2,3-trichlorobenzene	19.706	180	54211	22.05 ug/L	96
125) 2-methylnaphthalene	20.846	142	23266	11.06 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

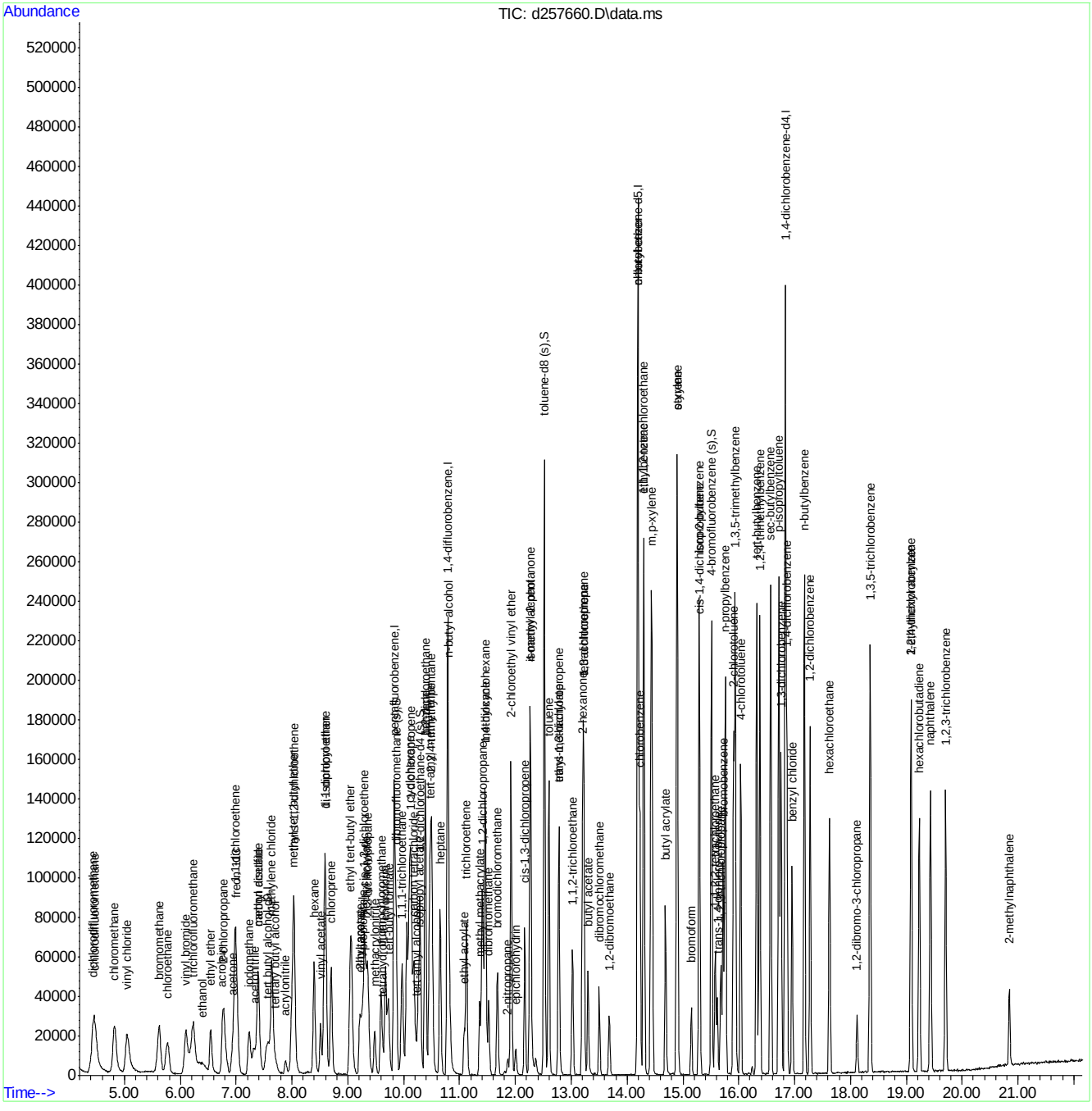
7.7.19

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257660.D
Acq On : 6 Jun 2018 8:27 pm
Operator : thienn
Sample : IC10401-20
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 09:11:42 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257661.D
Acq On : 6 Jun 2018 8:57 pm
Operator : thienn
Sample : ICC10401-50
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 09:12:01 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.577	65	69739	500.00	ug/L	0.00
5) pentafluorobenzene	9.830	168	118935	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.787	114	187309	50.00	ug/L	0.00
75) chlorobenzene-d5	14.190	117	178994	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.836	152	120398	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.867	113	57285	53.19	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 106.38%			
55) 1,2-dichloroethane-d4 (s)	10.295	65	68455	54.31	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 108.62%			
76) toluene-d8 (s)	12.517	98	236544	52.41	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.82%			
99) 4-bromofluorobenzene (s)	15.513	95	89769	48.06	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 96.12%			

Target Compounds						Qvalue
2) ethanol	6.390	45	94239	4595.40	ug/L	100
3) tertiary butyl alcohol	7.692	59	46779	260.63	ug/L	100
4) 1,4-dioxane	11.461	88	21589	1303.41	ug/L	100
6) chlorodifluoromethane	4.450	51	155339	52.29	ug/L	100
7) dichlorodifluoromethane	4.429	85	167601	57.82	ug/L	100
8) chloromethane	4.816	50	170327	49.85	ug/L	100
10) vinyl chloride	5.046	62	155943	48.44	ug/L	100
11) bromomethane	5.616	94	88867	45.74	ug/L	100
12) chloroethane	5.773	64	80912	48.09	ug/L	100
13) trichlorofluoromethane	6.228	101	153272	53.46	ug/L	100
14) vinyl bromide	6.097	106	83006	46.57	ug/L	100
15) ethyl ether	6.542	74	36697	54.47	ug/L	100
16) 2-chloropropane	6.766	43	144726	52.11	ug/L	100
17) acrolein	6.745	56	14102	63.04	ug/L	100
18) freon 113	7.002	151	69554	54.70	ug/L	100
19) 1,1-dichloroethene	6.976	96	76962	49.50	ug/L	100
20) acetone	6.928	58	21077	223.74	ug/L	100
21) acetonitrile	7.326	41	107920	529.65	ug/L	100
22) iodomethane	7.232	142	116846	47.02	ug/L	100
23) carbon disulfide	7.394	76	258300	48.15	ug/L	100
24) methylene chloride	7.639	84	84079	55.43	ug/L	100
25) methyl acetate	7.378	43	45983	53.23	ug/L	100
26) methyl tert butyl ether	8.016	73	267545	55.83	ug/L	100
27) trans-1,2-dichloroethene	8.032	96	69103	47.49	ug/L	100
28) hexane	8.392	56	49621	57.99	ug/L	100
29) di-isopropyl ether	8.591	45	275544	53.01	ug/L	100
30) 2-butanone	9.208	72	26409	222.60	ug/L	100
31) 1,1-dichloroethane	8.586	63	128184	55.43	ug/L	100
32) chloroprene	8.701	53	112164	59.36	ug/L	100
33) acrylonitrile	7.885	53	20404	53.41	ug/L	100
34) vinyl acetate	8.513	86	12755	57.57	ug/L	100
35) ethyl tert-butyl ether	9.051	59	297367	57.53	ug/L	100
36) ethyl acetate	9.234	45	9931	61.96	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257661.D
Acq On : 6 Jun 2018 8:57 pm
Operator : thienn
Sample : ICC10401-50
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 09:12:01 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 2,2-dichloropropane	9.349	77	138253	57.36 ug/L	100
38) cis-1,2-dichloroethene	9.297	96	76083	50.21 ug/L	100
39) propionitrile	9.271	54	105380	551.93 ug/L	100
40) methyl acrylate	9.318	85	8498	55.00 ug/L	100
41) methacrylonitrile	9.480	67	24164	54.66 ug/L	100
42) bromochloromethane	9.595	128	35476	56.16 ug/L	100
43) tetrahydrofuran	9.626	42	23218	63.63 ug/L	100
44) chloroform	9.673	83	121567	53.57 ug/L	100
45) tert-butyl formate	9.725	59	80942	107.46 ug/L	100
47) 1,1,1-trichloroethane	9.971	97	139156	58.36 ug/L	100
48) cyclohexane	10.107	84	157299	57.00 ug/L	100
50) 1,1-dichloropropene	10.133	75	95067	57.24 ug/L	100
51) carbon tetrachloride	10.180	117	115951	60.36 ug/L	100
52) tert-amyl alcohol	10.227	73	23816	260.12 ug/L	100
53) isopropyl acetate	10.259	87	15184	57.54 ug/L	100
56) n-butyl alcohol	10.802	56	128856	2555.61 ug/L	100
57) 2,2,4-trimethylpentane	10.504	57	366372	72.16 ug/L	100
58) benzene	10.384	78	286836	50.66 ug/L	100
59) tert-amyl methyl ether	10.468	73	271496	52.99 ug/L	100
60) heptane	10.656	57	57942	61.57 ug/L	100
61) 1,2-dichloroethane	10.384	62	92008	54.08 ug/L	100
62) ethyl acrylate	11.079	55	74726	55.68 ug/L	100
63) trichloroethene	11.127	95	67876	54.16 ug/L	100
64) 2-chloroethyl vinyl ether	11.921	63	194549	269.48 ug/L	100
65) methyl methacrylate	11.357	100	16457	52.85 ug/L	100
66) methylcyclohexane	11.461	83	163295	54.45 ug/L	100
67) 1,2-dichloropropane	11.409	63	74444	54.20 ug/L	100
68) dibromomethane	11.519	93	40582	56.76 ug/L	100
69) bromodichloromethane	11.675	83	98006	57.28 ug/L	100
70) 2-nitropropane	11.864	41	15479	52.18 ug/L	100
71) epichlorohydrin	12.005	57	35395	271.92 ug/L	100
72) cis-1,3-dichloropropene	12.167	75	116620	54.51 ug/L	100
73) 4-methyl-2-pentanone	12.266	58	107601	215.70 ug/L	100
74) isoamyl alcohol	12.261	70	51880	1138.68 ug/L	100
77) toluene	12.601	92	180707	52.91 ug/L	100
78) ethyl methacrylate	12.779	69	88314	55.80 ug/L	100
79) trans-1,3-dichloropropene	12.779	75	103060	55.09 ug/L	100
80) 1,1,2-trichloroethane	13.019	83	48086	53.86 ug/L	100
81) tetrachloroethene	13.223	164	57758	54.18 ug/L	100
82) 2-hexanone	13.202	58	93450	222.91 ug/L	100
83) 1,3-dichloropropane	13.223	76	99217	52.62 ug/L	100
84) butyl acetate	13.296	56	43453	57.73 ug/L	100
85) dibromochloromethane	13.500	129	69506	57.78 ug/L	100
86) 1,2-dibromoethane	13.678	107	61213	55.25 ug/L	100
87) n-butyl ether	14.195	57	358011	54.78 ug/L	100
88) chlorobenzene	14.227	112	189983	51.41 ug/L	100
89) 1,1,1,2-tetrachloroethane	14.300	131	84382	56.61 ug/L	100
90) ethylbenzene	14.300	91	342843	52.62 ug/L	100
91) m,p-xylene	14.436	106	264654	107.93 ug/L	100
92) o-xylene	14.891	91	302853	52.64 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257661.D
Acq On : 6 Jun 2018 8:57 pm
Operator : thienn
Sample : ICC10401-50
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 09:12:01 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration

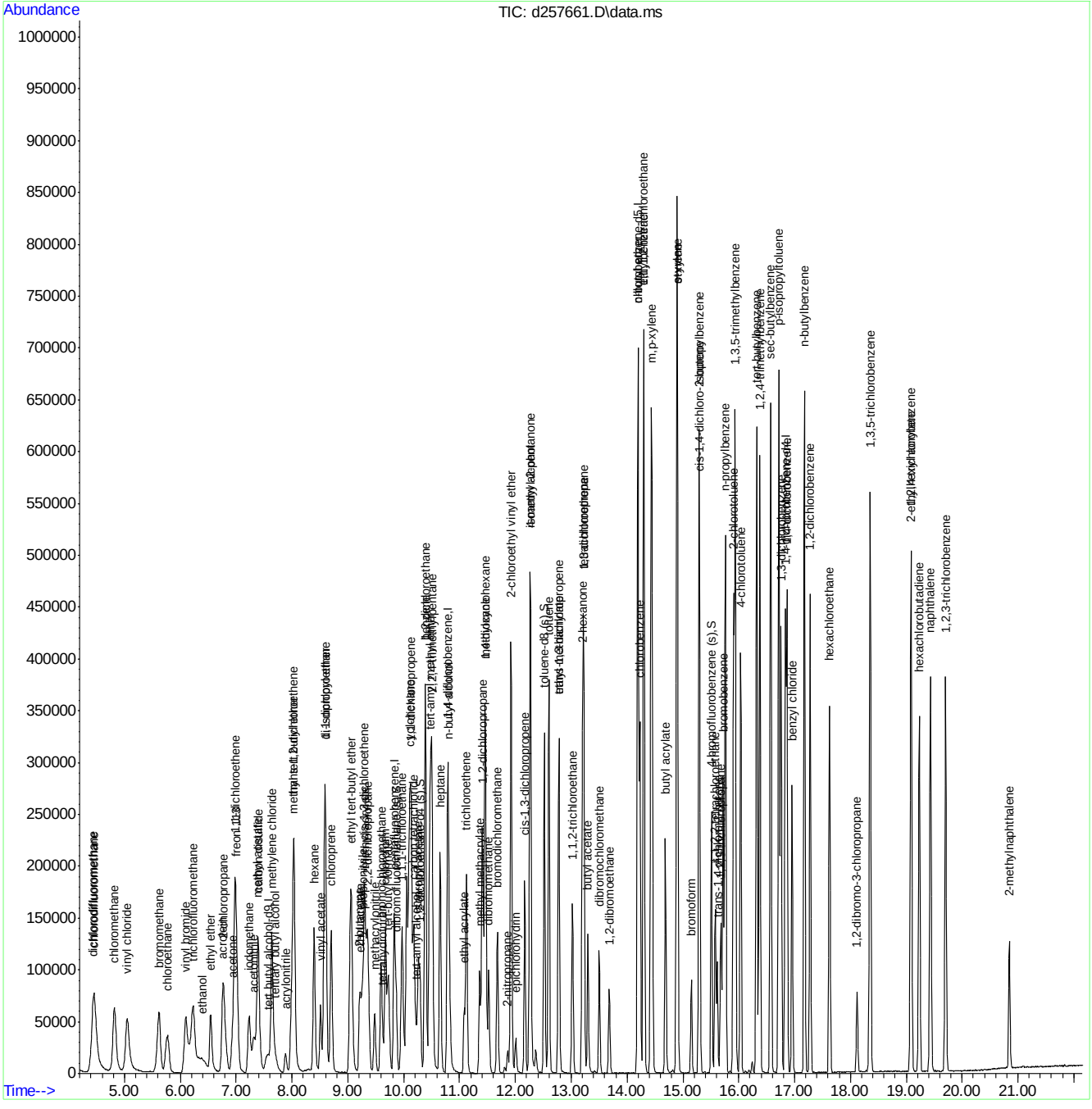
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) styrene	14.901	104	219279	52.62 ug/L	100
94) butyl acrylate	14.687	55	151708	57.27 ug/L	100
95) isopropylbenzene	15.288	105	400963	55.14 ug/L	100
96) bromoform	15.152	173	45969	59.89 ug/L	100
97) cis-1,4-dichloro-2-butene	15.304	88	32228	63.54 ug/L	100
100) 1,1,2,2-tetrachloroethane	15.576	83	87825	49.85 ug/L	100
101) trans-1,4-dichloro-2-b...	15.617	53	23676	65.28 ug/L	100
102) 1,2,3-trichloropropane	15.680	110	24316	51.91 ug/L	100
103) bromobenzene	15.722	156	87256	49.65 ug/L	100
104) n-propylbenzene	15.759	91	438269	51.38 ug/L	100
105) 2-chlorotoluene	15.910	126	92137	52.50 ug/L	100
106) 4-chlorotoluene	16.036	91	261389	49.86 ug/L	100
107) 1,3,5-trimethylbenzene	15.936	105	363251	52.10 ug/L	100
108) tert-butylbenzene	16.323	119	325101	55.03 ug/L	100
109) 1,2,4-trimethylbenzene	16.381	105	360911	50.39 ug/L	100
110) sec-butylbenzene	16.574	105	491019	55.21 ug/L	100
111) p-isopropyltoluene	16.715	119	417235	54.41 ug/L	100
112) 1,3-dichlorobenzene	16.757	146	191530	48.72 ug/L	100
113) 1,4-dichlorobenzene	16.862	146	196256	48.17 ug/L	100
114) 1,2-dichlorobenzene	17.280	146	202834	48.67 ug/L	100
115) benzyl chloride	16.956	91	214148	52.66 ug/L	100
116) n-butylbenzene	17.175	92	213691	53.88 ug/L	100
117) 2-ethylhexyl acrylate	19.078	70	16630	8.27 ug/L	100
118) hexachloroethane	17.630	201	70485	59.48 ug/L	100
119) 1,2-dibromo-3-chloropr...	18.116	75	21555	53.91 ug/L	100
120) 1,3,5-trichlorobenzene	18.352	180	197486	50.07 ug/L	100
121) 1,2,4-trichlorobenzene	19.089	180	167220	51.66 ug/L	100
122) hexachlorobutadiene	19.235	225	84179	57.71 ug/L	100
123) naphthalene	19.434	128	354833	51.74 ug/L	100
124) 1,2,3-trichlorobenzene	19.706	180	145180	54.27 ug/L	100
125) 2-methylnaphthalene	20.845	142	68921	30.11 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257661.D
Acq On : 6 Jun 2018 8:57 pm
Operator : thienn
Sample : ICC10401-50
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 09:12:01 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:30:04 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257662.D
Acq On : 6 Jun 2018 9:27 pm
Operator : thienn
Sample : IC10401-100
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 09:12:24 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:32:47 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.560	65	74070	500.00	ug/L	-0.02
5) pentafluorobenzene	9.829	168	122590	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.786	114	191458	50.00	ug/L	0.00
75) chlorobenzene-d5	14.195	117	194429	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.835	152	124236	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.861	113	59668	50.08	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 100.16%			
55) 1,2-dichloroethane-d4 (s)	10.295	65	69100	49.37	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 98.74%			
76) toluene-d8 (s)	12.517	98	245983	47.86	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.72%			
99) 4-bromofluorobenzene (s)	15.512	95	92615	49.54	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 99.08%			

Target Compounds						Qvalue
2) ethanol	6.374	45	199181	12547.42	ug/L	100
3) tertiary butyl alcohol	7.681	59	101574	531.57	ug/L	97
4) 1,4-dioxane	11.460	88	49610	2887.85	ug/L	100
6) chlorodifluoromethane	4.455	51	310830	107.07	ug/L	99
7) dichlorodifluoromethane	4.439	85	364306	118.47	ug/L	98
8) chloromethane	4.816	50	361235	104.62	ug/L	99
10) vinyl chloride	5.051	62	343606	109.20	ug/L	99
11) bromomethane	5.616	94	194590	112.24	ug/L	99
12) chloroethane	5.762	64	178931	111.41	ug/L	95
13) trichlorofluoromethane	6.222	101	337056	109.08	ug/L	98
14) vinyl bromide	6.091	106	186486	108.85	ug/L	99
15) ethyl ether	6.546	74	78414	107.78	ug/L	99
16) 2-chloropropane	6.766	43	310369	100.10	ug/L	98
17) acrolein	6.745	56	30298	119.08	ug/L	97
18) freon 113	7.001	151	150642	109.06	ug/L	96
19) 1,1-dichloroethene	6.980	96	170905	106.23	ug/L	95
20) acetone	6.928	58	44816	439.40	ug/L	97
21) acetonitrile	7.315	41	226968	1106.41	ug/L	96
22) iodomethane	7.231	142	255950	109.04	ug/L	99
23) carbon disulfide	7.388	76	565778	106.70	ug/L	100
24) methylene chloride	7.639	84	180809	105.42	ug/L	95
25) methyl acetate	7.383	43	93356	101.73	ug/L	96
26) methyl tert butyl ether	8.015	73	558469	103.44	ug/L	98
27) trans-1,2-dichloroethene	8.031	96	151234	108.51	ug/L	99
28) hexane	8.397	56	107382	110.24	ug/L	97
29) di-isopropyl ether	8.590	45	589630	106.99	ug/L	99
30) 2-butanone	9.212	72	56153	437.06	ug/L #	87
31) 1,1-dichloroethane	8.590	63	274430	106.71	ug/L	99
32) chloroprene	8.700	53	242487	112.38	ug/L	95
33) acrylonitrile	7.879	53	44842	110.30	ug/L	93
34) vinyl acetate	8.507	86	25781	110.20	ug/L #	84
35) ethyl tert-butyl ether	9.056	59	635142	111.09	ug/L	98
36) ethyl acetate	9.233	45	21314	109.22	ug/L #	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257662.D
Acq On : 6 Jun 2018 9:27 pm
Operator : thienn
Sample : IC10401-100
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 09:12:24 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:32:47 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2-dichloropropane	9.354	77	298429	102.92	ug/L		97
38) cis-1,2-dichloroethene	9.296	96	165641	108.09	ug/L		98
39) propionitrile	9.265	54	221596	1100.84	ug/L		98
40) methyl acrylate	9.322	85	18356	112.87	ug/L	#	93
41) methacrylonitrile	9.479	67	51948	107.62	ug/L		97
42) bromochloromethane	9.594	128	75821	110.74	ug/L		99
43) tetrahydrofuran	9.625	42	48145	113.74	ug/L		99
44) chloroform	9.672	83	259994	104.09	ug/L		97
45) tert-butyl formate	9.725	59	174760	111.53	ug/L		97
47) 1,1,1-trichloroethane	9.970	97	301376	107.94	ug/L		99
48) cyclohexane	10.106	84	346845	111.82	ug/L		90
50) 1,1-dichloropropene	10.138	75	206845	108.74	ug/L		99
51) carbon tetrachloride	10.180	117	252419	110.82	ug/L		99
52) tert-amyl alcohol	10.221	73	50257	256.54	ug/L		99
53) isopropyl acetate	10.258	87	32422	79.14	ug/L		97
56) n-butyl alcohol	10.802	56	275610	3526.84	ug/L		99
57) 2,2,4-trimethylpentane	10.504	57	833719	121.41	ug/L		100
58) benzene	10.383	78	614133	106.05	ug/L		99
59) tert-amyl methyl ether	10.467	73	584244	107.77	ug/L		100
60) heptane	10.650	57	125391	26.09	ug/L		98
61) 1,2-dichloroethane	10.383	62	193610	110.45	ug/L		97
62) ethyl acrylate	11.079	55	161187	110.87	ug/L		98
63) trichloroethene	11.126	95	147994	109.17	ug/L		98
64) 2-chloroethyl vinyl ether	11.921	63	418674	568.54	ug/L		99
65) methyl methacrylate	11.361	100	36083	114.94	ug/L		95
66) methylcyclohexane	11.460	83	365280	113.69	ug/L		100
67) 1,2-dichloropropane	11.408	63	160132	109.04	ug/L		97
68) dibromomethane	11.523	93	84849	105.39	ug/L		96
69) bromodichloromethane	11.675	83	210011	110.41	ug/L		98
70) 2-nitropropane	11.863	41	32792	102.09	ug/L		99
71) epichlorohydrin	12.004	57	76198	515.18	ug/L		98
72) cis-1,3-dichloropropene	12.166	75	252799	110.14	ug/L		98
73) 4-methyl-2-pentanone	12.266	58	233696	440.89	ug/L		98
74) isoamyl alcohol	12.255	70	112855	249.67	ug/L	#	79
77) toluene	12.600	92	393993	103.27	ug/L		97
78) ethyl methacrylate	12.778	69	191928	108.15	ug/L		99
79) trans-1,3-dichloropropene	12.778	75	222673	103.29	ug/L		99
80) 1,1,2-trichloroethane	13.024	83	104604	100.41	ug/L		97
81) tetrachloroethene	13.222	164	128717	108.30	ug/L		98
82) 2-hexanone	13.201	58	203094	425.29	ug/L		98
83) 1,3-dichloropropane	13.222	76	215069	104.68	ug/L		98
84) butyl acetate	13.295	56	95975	101.56	ug/L		99
85) dibromochloromethane	13.505	129	153932	108.76	ug/L		99
86) 1,2-dibromoethane	13.682	107	132280	106.93	ug/L		99
87) n-butyl ether	14.195	57	767426	97.69	ug/L		99
88) chlorobenzene	14.231	112	427310	106.78	ug/L		98
89) 1,1,1,2-tetrachloroethane	14.299	131	184947	106.41	ug/L		99
90) ethylbenzene	14.304	91	765915	105.91	ug/L		99
91) m,p-xylene	14.440	106	598477	215.88	ug/L		99
92) o-xylene	14.890	91	674345	105.13	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257662.D
Acq On : 6 Jun 2018 9:27 pm
Operator : thienn
Sample : IC10401-100
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 09:12:24 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:32:47 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) styrene	14.900	104	490905	106.98 ug/L	99
94) butyl acrylate	14.686	55	325495	100.86 ug/L	98
95) isopropylbenzene	15.293	105	894831	105.91 ug/L	99
96) bromoform	15.151	173	99251	104.91 ug/L	99
97) cis-1,4-dichloro-2-butene	15.303	88	67121	47.32 ug/L	97
100) 1,1,2,2-tetrachloroethane	15.580	83	185126	104.13 ug/L	99
101) trans-1,4-dichloro-2-b...	15.617	53	48360	98.02 ug/L	97
102) 1,2,3-trichloropropane	15.679	110	51345	99.13 ug/L	98
103) bromobenzene	15.721	156	190560	108.96 ug/L	95
104) n-propylbenzene	15.763	91	966997	107.50 ug/L	97
105) 2-chlorotoluene	15.909	126	204577	112.90 ug/L	99
106) 4-chlorotoluene	16.035	91	567615	107.07 ug/L	98
107) 1,3,5-trimethylbenzene	15.941	105	809906	111.04 ug/L	99
108) tert-butylbenzene	16.322	119	729553	114.24 ug/L	99
109) 1,2,4-trimethylbenzene	16.380	105	800988	109.40 ug/L	100
110) sec-butylbenzene	16.573	105	1091220	113.34 ug/L	99
111) p-isopropyltoluene	16.720	119	924535	111.31 ug/L	99
112) 1,3-dichlorobenzene	16.756	146	412972	107.45 ug/L	100
113) 1,4-dichlorobenzene	16.866	146	419750	106.49 ug/L	99
114) 1,2-dichlorobenzene	17.279	146	433730	104.29 ug/L	99
115) benzyl chloride	16.955	91	447169	101.06 ug/L	99
116) n-butylbenzene	17.180	92	469430	112.34 ug/L	99
117) 2-ethylhexyl acrylate	19.078	70	44014	27.51 ug/L	99
118) hexachloroethane	17.630	201	158792	118.70 ug/L	99
119) 1,2-dibromo-3-chloropr...	18.116	75	45894	102.06 ug/L	95
120) 1,3,5-trichlorobenzene	18.351	180	433776	111.68 ug/L	99
121) 1,2,4-trichlorobenzene	19.088	180	370129	115.85 ug/L	98
122) hexachlorobutadiene	19.234	225	190577	117.33 ug/L	99
123) naphthalene	19.433	128	773914	116.24 ug/L	99
124) 1,2,3-trichlorobenzene	19.705	180	317404	116.29 ug/L	98
125) 2-methylnaphthalene	20.845	142	164226	74.45 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.7.21
7

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257662.D
Acq On    :  6 Jun 2018   9:27 pm
Operator  : thienn
Sample    : IC10401-100
Misc      : ms26799,vd10401,5.0,,100,5,1
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Jun 07 09:12:24 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title  : SW846 8260C, Rxi-624  MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:32:47 2018
Response via : Initial Calibration
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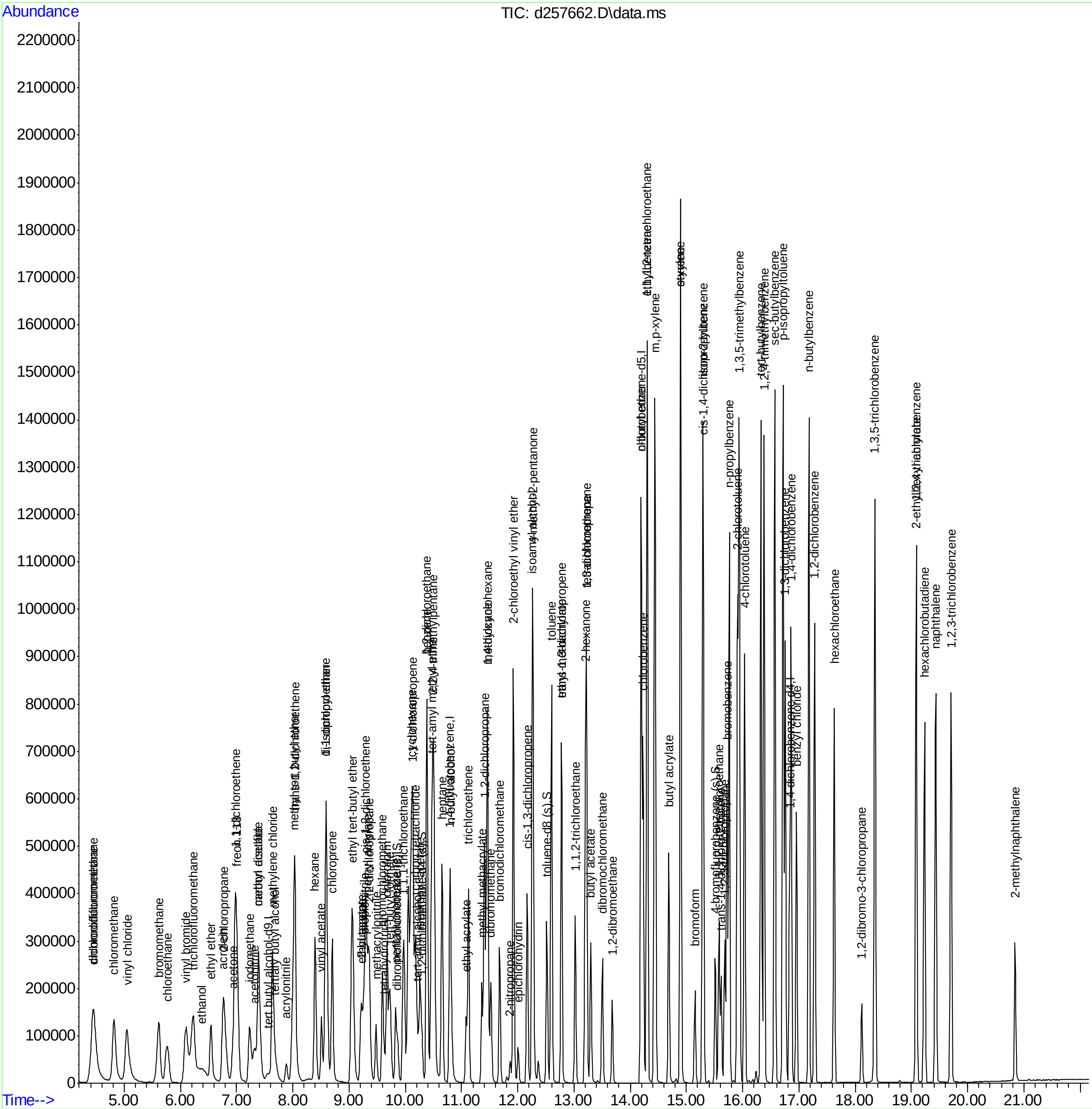


MD10401.M Fri Jun 08 10:27:57 2018 RPT1 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257663.D
Acq On : 6 Jun 2018 9:56 pm
Operator : thienn
Sample : IC10401-200
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 07 09:12:37 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:34:24 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) tert butyl alcohol-d9	7.576	65	76693	500.00 ug/L	0.00
5) pentafluorobenzene	9.830	168	126356	50.00 ug/L	0.00
54) 1,4-difluorobenzene	10.786	114	198950	50.00 ug/L	0.00
75) chlorobenzene-d5	14.195	117	208852	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.835	152	141067	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	9.861	113	60341	49.14 ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 98.28%		
55) 1,2-dichloroethane-d4 (s)	10.290	65	68499	47.09 ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 94.18%		
76) toluene-d8 (s)	12.517	98	259049	46.92 ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.84%		
99) 4-bromofluorobenzene (s)	15.513	95	100696	47.43 ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 94.86%		

Target Compounds

					Qvalue
2) ethanol	6.395	45	383676	23398.96 ug/L	96
3) tertiary butyl alcohol	7.697	59	209011	1056.42 ug/L	97
4) 1,4-dioxane	11.461	88	105041	5905.43 ug/L	98
6) chlorodifluoromethane	4.450	51	585874	195.79 ug/L	100
7) dichlorodifluoromethane	4.440	85	660222	208.31 ug/L	96
8) chloromethane	4.811	50	679156	190.84 ug/L	100
10) vinyl chloride	5.036	62	648064	199.82 ug/L	99
11) bromomethane	5.605	94	379576	212.41 ug/L	98
12) chloroethane	5.757	64	341910	206.55 ug/L	95
13) trichlorofluoromethane	6.222	101	633504	198.90 ug/L	99
14) vinyl bromide	6.086	106	363852	206.04 ug/L	99
15) ethyl ether	6.541	74	151269	201.71 ug/L	96
16) 2-chloropropane	6.766	43	599513	187.59 ug/L	98
17) acrolein	6.745	56	60312	229.98 ug/L	95
18) freon 113	6.996	151	294601	206.92 ug/L	96
19) 1,1-dichloroethene	6.975	96	339785	204.91 ug/L	93
20) acetone	6.933	58	90062	856.70 ug/L	98
21) acetonitrile	7.315	41	454793	2150.92 ug/L	93
22) iodomethane	7.226	142	515706	213.16 ug/L	97
23) carbon disulfide	7.388	76	1111918	203.44 ug/L	100
24) methylene chloride	7.634	84	363402	205.56 ug/L	98
25) methyl acetate	7.378	43	183449	193.95 ug/L	95
26) methyl tert butyl ether	8.016	73	1125305	202.22 ug/L	98
27) trans-1,2-dichloroethene	8.031	96	293825	204.54 ug/L	97
28) hexane	8.392	56	200529	199.73 ug/L	97
29) di-isopropyl ether	8.591	45	1189032	209.32 ug/L	99
30) 2-butanone	9.208	72	112774	851.60 ug/L	98
31) 1,1-dichloroethane	8.591	63	529920	199.91 ug/L	98
32) chloroprene	8.695	53	461454	207.49 ug/L	96
33) acrylonitrile	7.880	53	89904	214.54 ug/L	90
34) vinyl acetate	8.507	86	53035	219.95 ug/L #	87
35) ethyl tert-butyl ether	9.056	59	1292331	219.30 ug/L	98
36) ethyl acetate	9.228	45	42048	209.04 ug/L #	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257663.D
Acq On : 6 Jun 2018 9:56 pm
Operator : thienn
Sample : IC10401-200
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 07 09:12:37 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:34:24 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 2,2-dichloropropane	9.354	77	582999	195.08 ug/L	98
38) cis-1,2-dichloroethene	9.296	96	320425	202.86 ug/L	99
39) propionitrile	9.265	54	440506	2123.12 ug/L	98
40) methyl acrylate	9.317	85	37173	221.76 ug/L	95
41) methacrylonitrile	9.474	67	104571	210.18 ug/L	91
42) bromochloromethane	9.589	128	151052	214.04 ug/L	95
43) tetrahydrofuran	9.626	42	95858	219.71 ug/L	98
44) chloroform	9.673	83	505046	196.17 ug/L	97
45) tert-butyl formate	9.725	59	351215	217.47 ug/L	99
47) 1,1,1-trichloroethane	9.971	97	593520	206.23 ug/L	98
48) cyclohexane	10.107	84	674515	210.97 ug/L	92
50) 1,1-dichloropropene	10.133	75	391772	199.82 ug/L	98
51) carbon tetrachloride	10.180	117	494526	210.64 ug/L	99
52) tert-amyl alcohol	10.227	73	100349	496.97 ug/L	96
53) isopropyl acetate	10.264	87	64301	152.28 ug/L	100
56) n-butyl alcohol	10.802	56	539814	6647.60 ug/L	98
57) 2,2,4-trimethylpentane	10.504	57	1614295	226.24 ug/L	99
58) benzene	10.384	78	1207648	200.68 ug/L	99
59) tert-amyl methyl ether	10.473	73	1201456	213.27 ug/L	99
60) heptane	10.650	57	238730	47.80 ug/L	96
61) 1,2-dichloroethane	10.384	62	374375	205.53 ug/L	97
62) ethyl acrylate	11.079	55	326394	216.04 ug/L	99
63) trichloroethene	11.121	95	287992	204.44 ug/L	99
64) 2-chloroethyl vinyl ether	11.921	63	842781	1101.36 ug/L	99
65) methyl methacrylate	11.361	100	75133	230.32 ug/L	94
66) methylcyclohexane	11.461	83	718410	215.17 ug/L	98
67) 1,2-dichloropropane	11.409	63	317672	208.17 ug/L	99
68) dibromomethane	11.524	93	171746	205.30 ug/L	97
69) bromodichloromethane	11.675	83	419035	212.01 ug/L	98
70) 2-nitropropane	11.863	41	65264	195.53 ug/L	98
71) epichlorohydrin	12.005	57	156492	1018.22 ug/L	98
72) cis-1,3-dichloropropene	12.167	75	510455	214.02 ug/L	97
73) 4-methyl-2-pentanone	12.271	58	473124	858.98 ug/L	90
74) isoamyl alcohol	12.255	70	227155	483.61 ug/L #	76
77) toluene	12.601	92	796862	194.45 ug/L	95
78) ethyl methacrylate	12.773	69	394244	206.81 ug/L	98
79) trans-1,3-dichloropropene	12.778	75	449347	194.03 ug/L	97
80) 1,1,2-trichloroethane	13.024	83	212242	189.65 ug/L	95
81) tetrachloroethene	13.223	164	260149	203.77 ug/L	99
82) 2-hexanone	13.202	58	410824	800.88 ug/L	99
83) 1,3-dichloropropane	13.223	76	438641	198.75 ug/L	97
84) butyl acetate	13.296	56	196311	193.38 ug/L	100
85) dibromochloromethane	13.505	129	316578	208.23 ug/L	100
86) 1,2-dibromoethane	13.683	107	272859	205.34 ug/L	100
87) n-butyl ether	14.195	57	1533906	181.78 ug/L	99
88) chlorobenzene	14.232	112	883744	205.59 ug/L	99
89) 1,1,1,2-tetrachloroethane	14.300	131	382982	205.13 ug/L	99
90) ethylbenzene	14.305	91	1576025	202.87 ug/L	98
91) m,p-xylene	14.441	106	1249243	419.50 ug/L	97
92) o-xylene	14.896	91	1401361	203.39 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257663.D
Acq On : 6 Jun 2018 9:56 pm
Operator : thienn
Sample : IC10401-200
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 07 09:12:37 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:34:24 2018
Response via : Initial Calibration

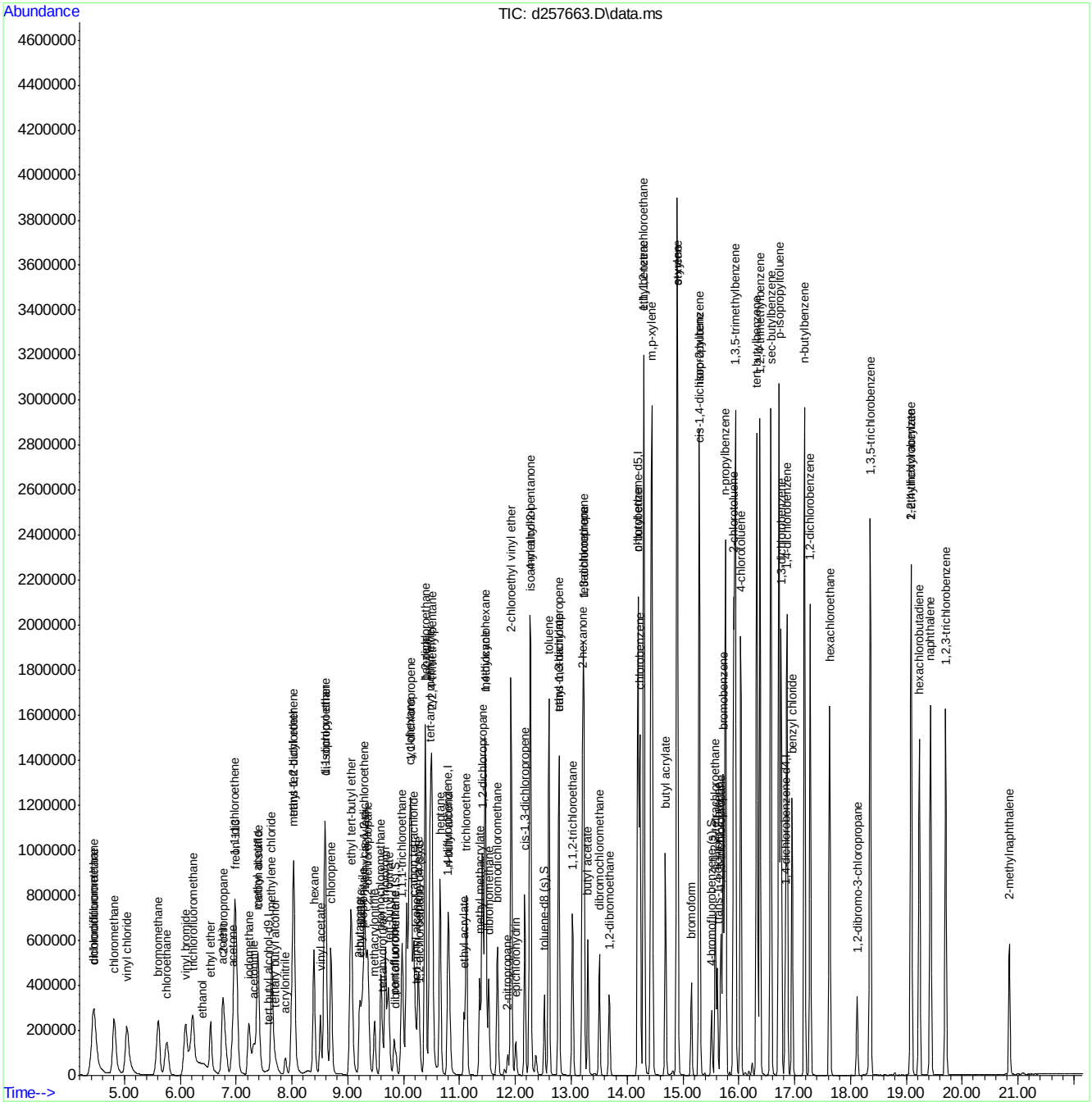
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) styrene	14.901	104	1042547	211.51 ug/L	99
94) butyl acrylate	14.687	55	657576	189.70 ug/L	97
95) isopropylbenzene	15.293	105	1830064	201.64 ug/L	98
96) bromoform	15.152	173	212062	208.68 ug/L	97
97) cis-1,4-dichloro-2-butene	15.303	88	138770	91.07 ug/L	95
100) 1,1,2,2-tetrachloroethane	15.581	83	389497	192.95 ug/L	100
101) trans-1,4-dichloro-2-b...	15.617	53	101080	180.43 ug/L	91
102) 1,2,3-trichloropropane	15.680	110	108000	183.63 ug/L	98
103) bromobenzene	15.722	156	409336	206.13 ug/L	97
104) n-propylbenzene	15.763	91	2000836	195.89 ug/L	97
105) 2-chlorotoluene	15.910	126	433276	210.59 ug/L	97
106) 4-chlorotoluene	16.035	91	1204270	200.07 ug/L	98
107) 1,3,5-trimethylbenzene	15.941	105	1693956	204.54 ug/L	98
108) tert-butylbenzene	16.323	119	1502492	207.20 ug/L	99
109) 1,2,4-trimethylbenzene	16.380	105	1683659	202.52 ug/L	99
110) sec-butylbenzene	16.574	105	2207166	201.90 ug/L	98
111) p-isopropyltoluene	16.720	119	1913732	202.92 ug/L	97
112) 1,3-dichlorobenzene	16.757	146	893567	204.76 ug/L	99
113) 1,4-dichlorobenzene	16.867	146	916725	204.83 ug/L	99
114) 1,2-dichlorobenzene	17.280	146	930608	197.07 ug/L	99
115) benzyl chloride	16.955	91	962913	191.65 ug/L	100
116) n-butylbenzene	17.180	92	984149	207.43 ug/L	98
117) 2-ethylhexyl acrylate	19.083	70	98640	54.29 ug/L	97
118) hexachloroethane	17.630	201	335617	220.94 ug/L	98
119) 1,2-dibromo-3-chloropr...	18.116	75	94435	184.95 ug/L	93
120) 1,3,5-trichlorobenzene	18.357	180	883317	200.28 ug/L	99
121) 1,2,4-trichlorobenzene	19.088	180	739421	203.82 ug/L	98
122) hexachlorobutadiene	19.235	225	370079	200.65 ug/L	99
123) naphthalene	19.434	128	1552896	205.41 ug/L	99
124) 1,2,3-trichlorobenzene	19.705	180	633074	204.27 ug/L	98
125) 2-methylnaphthalene	20.845	142	335801	134.07 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257663.D
Acq On : 6 Jun 2018 9:56 pm
Operator : thienn
Sample : IC10401-200
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 07 09:12:37 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 08:34:24 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257666.D
Acq On : 6 Jun 2018 11:25 pm
Operator : thienn
Sample : ICV10401-50
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 08 10:26:00 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Jun 08 10:25:46 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.571	65	67962	500.00	ug/L	0.00
5) pentafluorobenzene	9.829	168	123769	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.786	114	191613	50.00	ug/L	0.00
75) chlorobenzene-d5	14.195	117	181798	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.835	152	118977	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.861	113	59218	49.23	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 98.46%			
55) 1,2-dichloroethane-d4 (s)	10.295	65	68106	48.62	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 97.24%			
76) toluene-d8 (s)	12.516	98	238948	49.72	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.44%			
99) 4-bromofluorobenzene (s)	15.512	95	88425	49.39	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 98.78%			

Target Compounds						Qvalue
2) ethanol	6.363	45	85688	4628.69	ug/L	97
3) tertiary butyl alcohol	7.681	59	44112	251.60	ug/L	98
4) 1,4-dioxane	11.455	88	19410	1168.07	ug/L	97
6) chlorodifluoromethane	4.455	51	113902	38.36	ug/L	99
7) dichlorodifluoromethane	4.444	85	154424	46.44	ug/L	97
8) chloromethane	4.816	50	180219	51.70	ug/L	99
10) vinyl chloride	5.051	62	159178	50.11	ug/L	99
11) bromomethane	5.615	94	93917	50.46	ug/L	97
12) chloroethane	5.762	64	82450	47.72	ug/L	98
13) trichlorofluoromethane	6.222	101	153848	47.77	ug/L	99
14) vinyl bromide	6.096	106	95243	55.06	ug/L	98
15) ethyl ether	6.546	74	35798	48.73	ug/L	97
16) 2-chloropropane	6.776	43	150874	48.12	ug/L	98
17) acrolein	6.745	56	14643	49.98	ug/L	91
18) freon 113	7.006	151	74209	51.45	ug/L	96
19) 1,1-dichloroethene	6.980	96	73222	45.08	ug/L	95
20) acetone	6.933	58	21667	210.41	ug/L	91
22) iodomethane	7.231	142	141288	58.10	ug/L	99
23) carbon disulfide	7.393	76	338452	63.22	ug/L	98
24) methylene chloride	7.633	84	84217	47.63	ug/L	99
25) methyl acetate	7.383	43	43454	45.53	ug/L	94
26) methyl tert butyl ether	8.010	73	525813	96.46	ug/L	98
27) trans-1,2-dichloroethene	8.031	96	67954	46.72	ug/L	98
28) hexane	8.397	56	44425	43.24	ug/L	96
29) di-isopropyl ether	8.590	45	278676	50.08	ug/L	99
30) 2-butanone	9.207	72	27171	209.47	ug/L	100
31) 1,1-dichloroethane	8.590	63	125991	48.52	ug/L	97
32) chloroprene	8.700	53	113233	51.98	ug/L	95
33) acrylonitrile	7.884	53	21698	52.86	ug/L	97
34) vinyl acetate	8.512	86	13486	56.00	ug/L #	86
35) ethyl tert-butyl ether	9.056	59	296587	51.38	ug/L	99
36) ethyl acetate	9.233	45	9848	49.98	ug/L #	90
37) 2,2-dichloropropane	9.354	77	133191	45.50	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257666.D
Acq On : 6 Jun 2018 11:25 pm
Operator : thienn
Sample : ICV10401-50
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 08 10:26:00 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Jun 08 10:25:46 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) cis-1,2-dichloroethene	9.296	96	77540	50.12	ug/L		98
39) propionitrile	9.265	54	103831	489.54	ug/L		92
40) methyl acrylate	9.322	85	8682	52.88	ug/L	#	82
41) methacrylonitrile	9.479	67	24711	50.71	ug/L		94
42) bromochloromethane	9.594	128	35516	51.38	ug/L		94
43) tetrahydrofuran	9.620	42	21943	49.70	ug/L		99
44) chloroform	9.672	83	121917	48.35	ug/L		97
45) tert-butyl formate	9.719	59	68033	42.24	ug/L		97
47) 1,1,1-trichloroethane	9.970	97	134954	47.87	ug/L		98
48) cyclohexane	10.106	84	158632	48.46	ug/L		96
50) 1,1-dichloropropene	10.132	75	94973	47.97	ug/L		99
51) carbon tetrachloride	10.180	117	114148	48.61	ug/L		99
52) tert-amyl alcohol	10.221	73	23508	231.95	ug/L		91
53) isopropyl acetate	10.258	87	14402	46.79	ug/L	#	92
56) n-butyl alcohol	10.802	56	120648	2090.24	ug/L		99
57) 2,2,4-trimethylpentane	10.504	57	357717	50.89	ug/L		98
58) benzene	10.383	78	286036	49.35	ug/L		99
59) tert-amyl methyl ether	10.467	73	275780	50.83	ug/L		99
60) heptane	10.650	57	62001	51.98	ug/L		97
61) 1,2-dichloroethane	10.389	62	89857	48.76	ug/L		98
62) ethyl acrylate	11.079	55	76263	49.76	ug/L		97
63) trichloroethene	11.121	95	67808	49.98	ug/L		97
64) 2-chloroethyl vinyl ether	11.920	63	207435	272.32	ug/L		100
65) methyl methacrylate	11.361	100	16879	51.84	ug/L	#	77
66) methylcyclohexane	11.460	83	159818	48.11	ug/L		98
67) 1,2-dichloropropane	11.408	63	72856	48.54	ug/L		98
68) dibromomethane	11.518	93	41056	50.96	ug/L		97
69) bromodichloromethane	11.680	83	95601	50.22	ug/L		97
70) 2-nitropropane	11.863	41	15704	49.52	ug/L		95
71) epichlorohydrin	12.004	57	34774	238.56	ug/L		95
72) cis-1,3-dichloropropene	12.166	75	115703	50.37	ug/L		97
73) 4-methyl-2-pentanone	12.265	58	108527	197.22	ug/L		94
74) isoamyl alcohol	12.255	70	49316	958.20	ug/L	#	82
77) toluene	12.600	92	181626	50.91	ug/L		98
78) ethyl methacrylate	12.773	69	83019	48.44	ug/L		98
79) trans-1,3-dichloropropene	12.778	75	98014	48.62	ug/L		98
80) 1,1,2-trichloroethane	13.024	83	47355	48.61	ug/L		98
82) 2-hexanone	13.201	58	91428	194.91	ug/L		98
83) 1,3-dichloropropane	13.222	76	100719	50.95	ug/L		99
84) butyl acetate	13.301	56	44057	47.66	ug/L		98
85) dibromochloromethane	13.505	129	72395	52.97	ug/L		97
86) 1,2-dibromoethane	13.682	107	60980	51.02	ug/L		97
87) n-butyl ether	14.195	57	345412	47.02	ug/L		99
88) chlorobenzene	14.231	112	187862	50.21	ug/L		98
89) 1,1,1,2-tetrachloroethane	14.299	131	86112	51.56	ug/L		98
90) ethylbenzene	14.299	91	342761	50.69	ug/L		100
91) m,p-xylene	14.435	106	266683	102.88	ug/L		100
92) o-xylene	14.890	91	301497	50.27	ug/L		100
93) styrene	14.900	104	217876	50.78	ug/L		99
94) butyl acrylate	14.686	55	148997	48.32	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257666.D
Acq On : 6 Jun 2018 11:25 pm
Operator : thienn
Sample : ICV10401-50
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 08 10:26:00 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Jun 08 10:25:46 2018
Response via : Initial Calibration

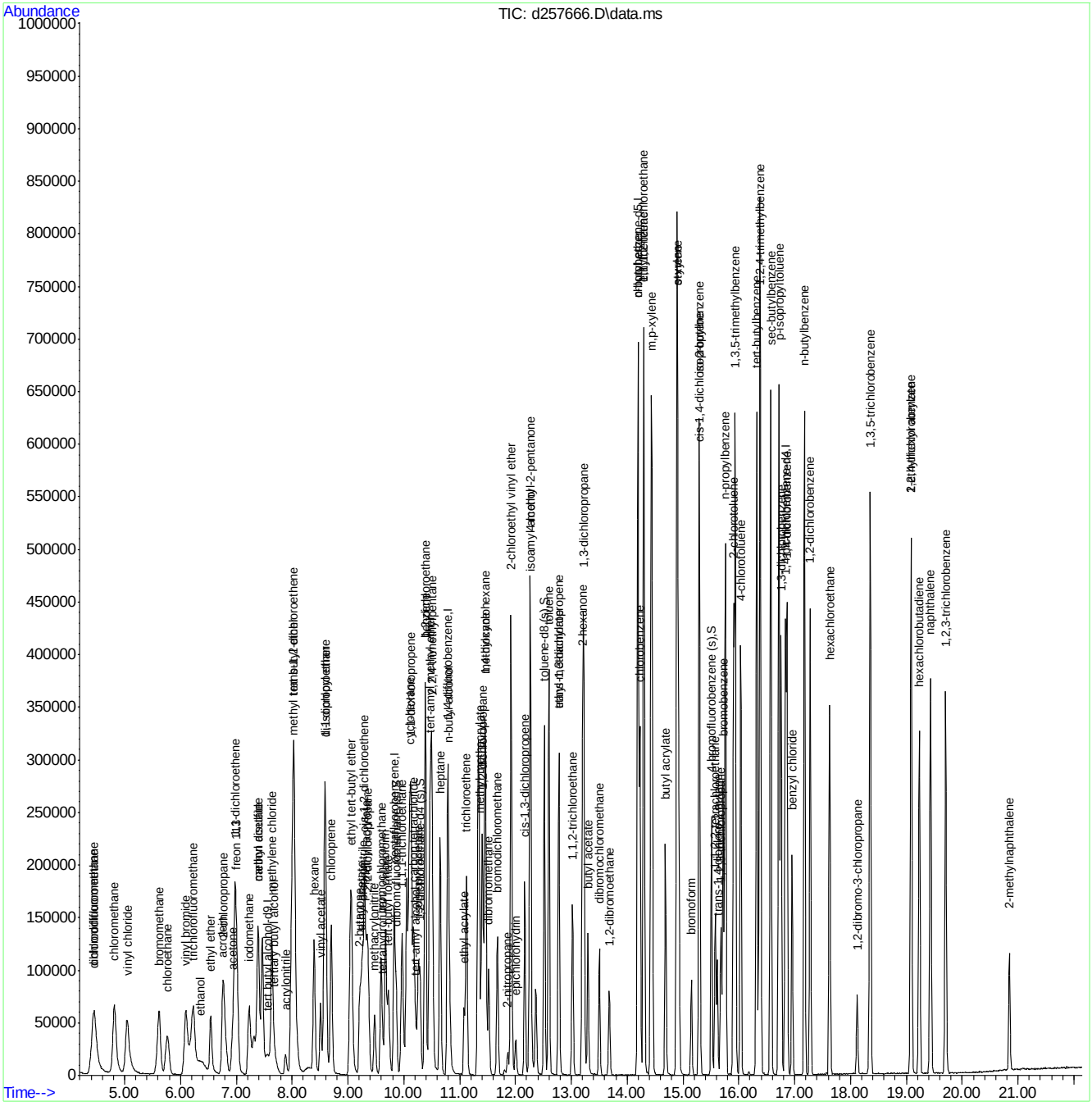
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
95) isopropylbenzene	15.293	105	403345	51.05 ug/L	99
96) bromoform	15.151	173	47367	53.55 ug/L	99
97) cis-1,4-dichloro-2-butene	15.303	88	28995	46.06 ug/L	98
100) 1,1,2,2-tetrachloroethane	15.575	83	84818	48.31 ug/L	98
101) trans-1,4-dichloro-2-b...	15.617	53	24140	51.09 ug/L	91
102) 1,2,3-trichloropropane	15.679	110	23690	47.76 ug/L	94
103) bromobenzene	15.721	156	86550	51.68 ug/L	98
104) n-propylbenzene	15.763	91	429927	49.91 ug/L	98
105) 2-chlorotoluene	15.909	126	88063	50.47 ug/L	98
106) 4-chlorotoluene	16.035	91	259518	51.12 ug/L	99
107) 1,3,5-trimethylbenzene	15.936	105	356784	51.08 ug/L	99
108) tert-butylbenzene	16.322	119	327915	52.49 ug/L	99
109) 1,2,4-trimethylbenzene	16.380	105	365265	52.09 ug/L	99
110) sec-butylbenzene	16.573	105	489757	52.01 ug/L	100
111) p-isopropyltoluene	16.720	119	411844	51.78 ug/L	98
112) 1,3-dichlorobenzene	16.756	146	186785	50.75 ug/L	99
113) 1,4-dichlorobenzene	16.861	146	191173	50.65 ug/L	99
114) 1,2-dichlorobenzene	17.279	146	198757	49.90 ug/L	98
115) benzyl chloride	16.955	91	163721	38.64 ug/L	100
116) n-butylbenzene	17.180	92	209139	52.26 ug/L	99
117) 2-ethylhexyl acrylate	19.083	70	18390	9.76 ug/L	98
118) hexachloroethane	17.629	201	70550	52.98 ug/L	96
119) 1,2-dibromo-3-chloropr...	18.121	75	21257	49.71 ug/L	92
120) 1,3,5-trichlorobenzene	18.351	180	196630	52.86 ug/L	99
121) 1,2,4-trichlorobenzene	19.088	180	168539	55.08 ug/L	98
122) hexachlorobutadiene	19.234	225	81922	51.48 ug/L	97
123) naphthalene	19.433	128	354580	55.61 ug/L	99
124) 1,2,3-trichlorobenzene	19.705	180	143801	55.01 ug/L	99
125) 2-methylnaphthalene	20.850	142	65289	24.99 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257666.D
Acq On : 6 Jun 2018 11:25 pm
Operator : thienn
Sample : ICV10401-50
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 08 10:26:00 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Jun 08 10:25:46 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257667.D
Acq On : 6 Jun 2018 11:55 pm
Operator : thienn
Sample : ICV10401-50
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 07 09:13:47 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 09:08:49 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.588	65	73121	500.00	ug/L	0.01
5) pentafluorobenzene	9.831	168	121770	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.787	114	187263	50.00	ug/L	0.00
75) chlorobenzene-d5	14.191	117	173950	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.836	152	121458	50.00	ug/L	0.00
System Monitoring Compounds						
46) dibromofluoromethane (s)	9.862	113	57771	48.82	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 97.64%			
55) 1,2-dichloroethane-d4 (s)	10.296	65	66580	48.63	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 97.26%			
76) toluene-d8 (s)	12.518	98	225666	49.08	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.16%			
99) 4-bromofluorobenzene (s)	15.508	95	94879	51.91	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 103.82%			
Target Compounds						Qvalue
21) acetonitrile	7.326	41	107480	476.29	ug/L	95
81) tetrachloroethene	13.218	164	53353	50.17	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

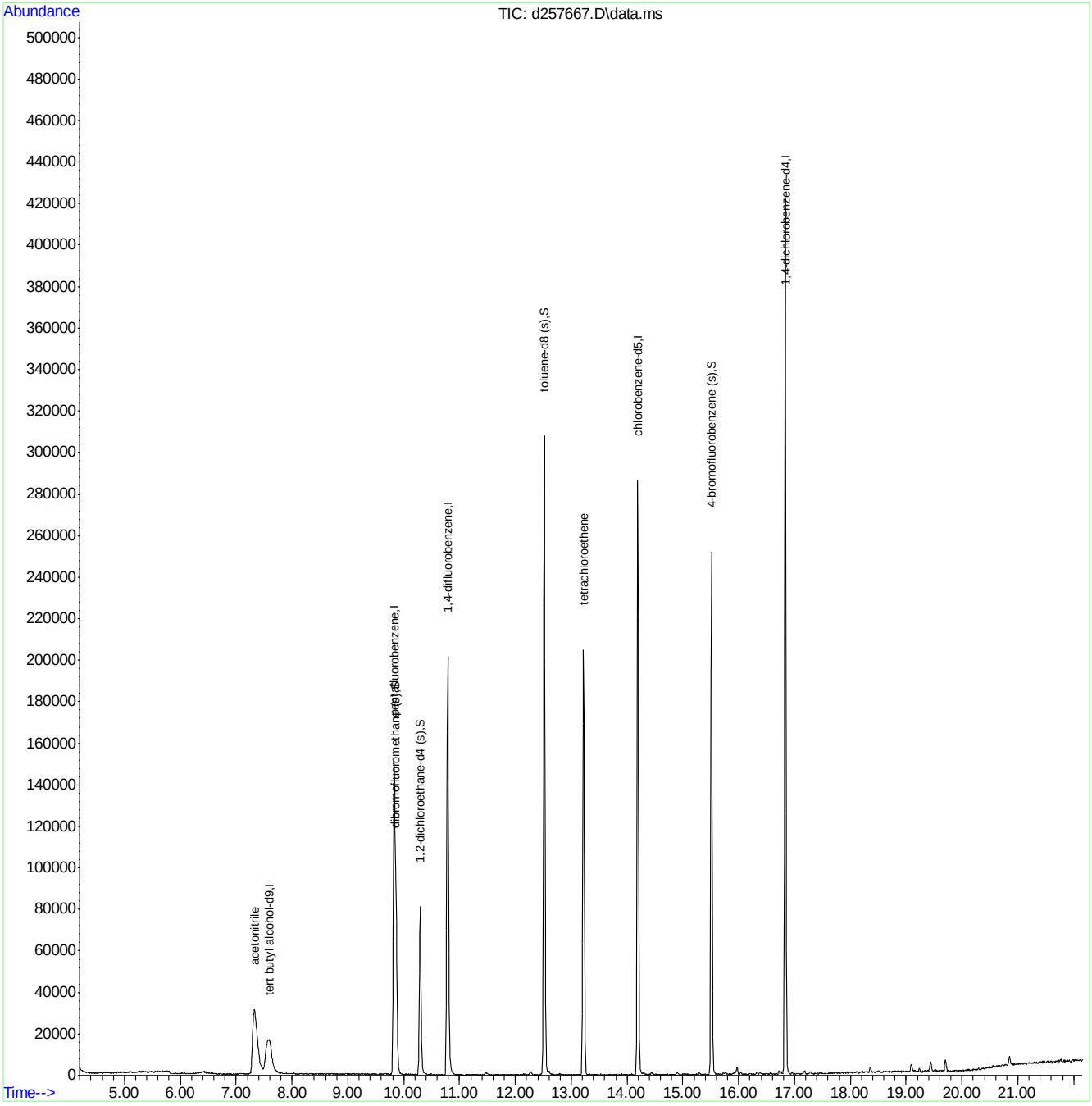
7.7.24

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vd10401\
Data File : d257667.D
Acq On : 6 Jun 2018 11:55 pm
Operator : thienn
Sample : ICV10401-50
Misc : ms26799,vd10401,5.0,,100,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 07 09:13:47 2018
Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Thu Jun 07 09:08:49 2018
Response via : Initial Calibration



MD10401.M Fri Jun 08 10:28:00 2018 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260117.d
Acq On : 24 Oct 2018 8:00 am
Operator : thienn
Sample : cc10401-50 Inst : MSD
Misc : ms27208,vd10499,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:16:40 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.494	65	43201	500.00	ug/L	-0.05
5) pentafluorobenzene	9.753	168	79305	50.00	ug/L	-0.05
54) 1,4-difluorobenzene	10.710	114	114996	50.00	ug/L	-0.05
75) chlorobenzene-d5	14.120	117	113824	50.00	ug/L	-0.04
98) 1,4-dichlorobenzene-d4	16.767	152	75644	50.00	ug/L	-0.04
System Monitoring Compounds						
46) dibromofluoromethane (s)	9.790	113	35734	46.36	ug/L	-0.05
Spiked Amount 50.000	Range 75 - 127		Recovery = 92.72%			
55) 1,2-dichloroethane-d4 (s)	10.213	65	43361	51.58	ug/L	-0.05
Spiked Amount 50.000	Range 75 - 130		Recovery = 103.16%			
76) toluene-d8 (s)	12.447	98	138330	45.97	ug/L	-0.04
Spiked Amount 50.000	Range 80 - 120		Recovery = 91.94%			
99) 4-bromofluorobenzene (s)	15.444	95	54684	48.04	ug/L	-0.04
Spiked Amount 50.000	Range 79 - 127		Recovery = 96.08%			
Target Compounds						Qvalue
2) ethanol	6.233	45	67864	5766.99	ug/L	93
3) tertiary butyl alcohol	7.598	59	27597	247.62	ug/L	92
4) 1,4-dioxane	11.380	88	13083	1238.58	ug/L	85
6) chlorodifluoromethane	4.413	51	117854	61.95	ug/L	98
7) dichlorodifluoromethane	4.413	85	113979	53.50	ug/L	98
8) chloromethane	4.785	50	111324	49.84	ug/L	97
10) vinyl chloride	4.999	62	104851	51.51	ug/L	99
11) bromomethane	5.590	94	58712	49.24	ug/L	99
12) chloroethane	5.721	64	55642	50.26	ug/L	94
13) trichlorofluoromethane	6.176	101	108631	52.64	ug/L	96
14) vinyl bromide	6.055	106	59285	53.49	ug/L	97
15) ethyl ether	6.484	74	22099	46.95	ug/L	92
16) 2-chloropropane	6.699	43	101278	50.41	ug/L	94
17) acrolein	6.673	56	11906	63.42	ug/L	91
18) freon 113	6.950	151	54063	58.50	ug/L	99
19) 1,1-dichloroethene	6.908	96	50036	48.08	ug/L	95
20) acetone	6.856	58	12681	192.19	ug/L	98
21) acetonitrile	7.227	41	67348	458.25	ug/L	95
22) iodomethane	7.149	142	84575	54.28	ug/L	99
23) carbon disulfide	7.316	76	178850	52.14	ug/L	98
24) methylene chloride	7.556	84	51949	45.86	ug/L	98
25) methyl acetate	7.316	43	27037	44.21	ug/L	93
26) methyl tert butyl ether	7.933	73	160453	45.94	ug/L	99
27) trans-1,2-dichloroethene	7.959	96	43413	46.59	ug/L	97
28) hexane	8.325	56	34123	51.84	ug/L	96
29) di-isopropyl ether	8.519	45	168609	47.29	ug/L	99
30) 2-butanone	9.131	72	14631	176.03	ug/L	90
31) 1,1-dichloroethane	8.514	63	79068	47.52	ug/L	99
32) chloroprene	8.629	53	67862	48.62	ug/L	97
33) acrylonitrile	7.802	53	12302	46.77	ug/L	93
34) vinyl acetate	8.435	86	7954	51.55	ug/L #	85
35) ethyl tert-butyl ether	8.979	59	177519	48.00	ug/L	98
36) ethyl acetate	9.157	45	5063	40.10	ug/L #	73
37) 2,2-dichloropropane	9.272	77	102593	54.70	ug/L	99
38) cis-1,2-dichloroethene	9.220	96	47266	47.68	ug/L	98
39) propionitrile	9.178	54	55966	411.81	ug/L	98
40) methyl acrylate	9.246	85	5010	47.62	ug/L #	72
41) methacrylonitrile	9.392	67	13987	44.79	ug/L	97
42) bromochloromethane	9.518	128	22312	50.37	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260117.d
Acq On : 24 Oct 2018 8:00 am
Operator : thienn
Sample : cc10401-50 Inst : MSD
Misc : ms27208,vd10499,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:16:40 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	tetrahydrofuran	9.554	42	9979	35.27	ug/L		93
44)	chloroform	9.596	83	76037	47.06	ug/L		98
45)	tert-butyl formate	9.643	59	54401	52.72	ug/L		96
47)	1,1,1-trichloroethane	9.894	97	94075	52.08	ug/L		98
48)	cyclohexane	10.036	84	100810	48.06	ug/L		91
50)	1,1-dichloropropene	10.062	75	58502	46.11	ug/L		98
51)	carbon tetrachloride	10.104	117	79021	52.52	ug/L		99
52)	tert-amyl alcohol	10.145	73	12922	198.99	ug/L		96
53)	isopropyl acetate	10.187	87	8560	43.40	ug/L		97
56)	n-butyl alcohol	10.721	56	66470	1918.86	ug/L		97
57)	2,2,4-trimethylpentane	10.433	57	212080	50.28	ug/L		99
58)	benzene	10.308	78	171982	49.44	ug/L		100
59)	tert-amyl methyl ether	10.396	73	171259	52.60	ug/L		98
60)	heptane	10.585	57	33990	47.48	ug/L		97
61)	1,2-dichloroethane	10.308	62	58380	52.78	ug/L		96
62)	ethyl acrylate	11.008	55	41512	45.13	ug/L		98
63)	trichloroethene	11.050	95	41578	51.06	ug/L		98
64)	2-chloroethyl vinyl ether	11.845	63	118644	259.53	ug/L		99
65)	methyl methacrylate	11.286	100	9103	46.58	ug/L		97
66)	methylcyclohexane	11.390	83	103346	51.84	ug/L		99
67)	1,2-dichloropropane	11.333	63	42555	47.24	ug/L		99
68)	dibromomethane	11.442	93	24516	50.70	ug/L		95
69)	bromodichloromethane	11.599	83	58042	50.81	ug/L		99
70)	2-nitropropane	11.845	41	5798	30.46	ug/L		76
71)	epichlorohydrin	11.929	57	20142	230.25	ug/L		98
72)	cis-1,3-dichloropropene	12.096	75	68564	49.74	ug/L		98
73)	4-methyl-2-pentanone	12.190	58	60296	182.57	ug/L		93
74)	isoamyl alcohol	12.180	70	25857	837.12	ug/L	#	87
77)	toluene	12.530	92	105624	47.29	ug/L		98
78)	ethyl methacrylate	12.708	69	48157	44.88	ug/L		97
79)	trans-1,3-dichloropropene	12.703	75	62934	49.86	ug/L		98
80)	1,1,2-trichloroethane	12.949	83	28808	47.23	ug/L		96
81)	tetrachloroethene	13.153	164	36939	53.09	ug/L		99
82)	2-hexanone	13.127	58	52121	177.46	ug/L		99
83)	1,3-dichloropropane	13.148	76	59464	48.05	ug/L		96
84)	butyl acetate	13.231	56	25542	44.13	ug/L		98
85)	dibromochloromethane	13.430	129	42289	49.42	ug/L		99
86)	1,2-dibromoethane	13.608	107	37545	50.18	ug/L		97
87)	n-butyl ether	14.131	57	206534	44.91	ug/L		99
88)	chlorobenzene	14.157	112	119563	51.04	ug/L		98
89)	1,1,1,2-tetrachloroethane	14.230	131	53037	50.72	ug/L		98
90)	ethylbenzene	14.235	91	210506	49.72	ug/L		99
91)	m,p-xylene	14.371	106	166133	102.36	ug/L		99
92)	o-xylene	14.826	91	186607	49.69	ug/L		100
93)	styrene	14.832	104	136114	50.67	ug/L		97
94)	butyl acrylate	14.622	55	80661	41.78	ug/L		98
95)	isopropylbenzene	15.224	105	249342	50.41	ug/L		98
96)	bromoform	15.083	173	30023	54.21	ug/L		99
97)	cis-1,4-dichloro-2-butene	15.234	88	20699	52.52	ug/L		94
100)	1,1,2,2-tetrachloroethane	15.506	83	51899	46.49	ug/L		96
101)	trans-1,4-dichloro-2-b...	15.543	53	13962	46.48	ug/L		93
102)	1,2,3-trichloropropane	15.606	110	14975	47.48	ug/L		98
103)	bromobenzene	15.653	156	58278	54.73	ug/L		97
104)	n-propylbenzene	15.695	91	272444	49.74	ug/L		98
105)	2-chlorotoluene	15.841	126	57446	51.78	ug/L		96
106)	4-chlorotoluene	15.967	91	162451	50.33	ug/L		97
107)	1,3,5-trimethylbenzene	15.872	105	221876	49.96	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260117.d
Acq On : 24 Oct 2018 8:00 am
Operator : thienn
Sample : cc10401-50 Inst : MSD
Misc : ms27208,vd10499,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:16:40 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration

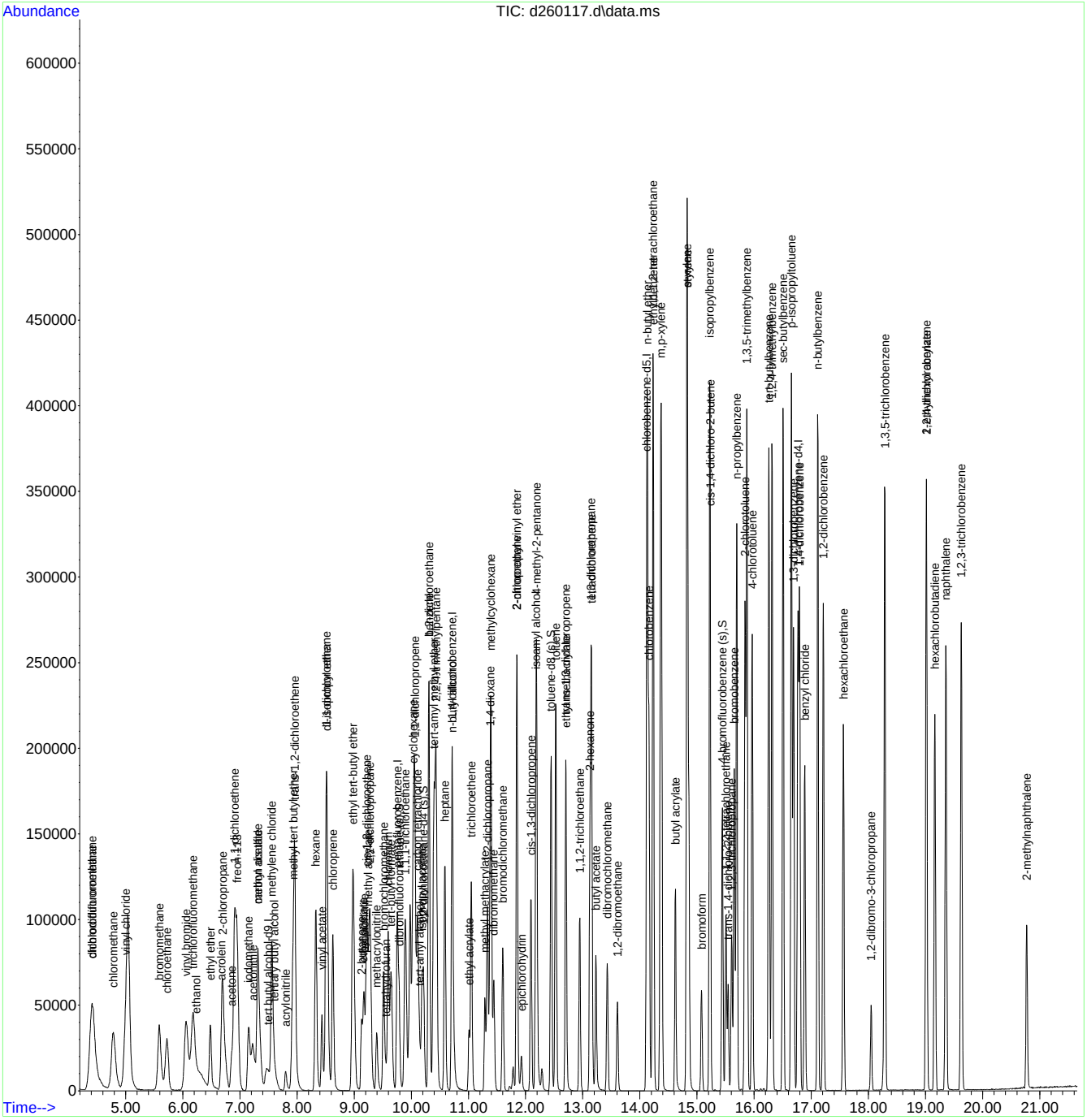
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) tert-butylbenzene	16.259	119	192717	48.52	ug/L	99
109) 1,2,4-trimethylbenzene	16.312	105	222138	49.83	ug/L	99
110) sec-butylbenzene	16.505	105	295599	49.38	ug/L	99
111) p-isopropyltoluene	16.652	119	252897	50.01	ug/L	99
112) 1,3-dichlorobenzene	16.688	146	120710	51.58	ug/L	99
113) 1,4-dichlorobenzene	16.798	146	124209	51.76	ug/L	98
114) 1,2-dichlorobenzene	17.211	146	126663	50.02	ug/L	97
115) benzyl chloride	16.887	91	146024	54.20	ug/L	100
116) n-butylbenzene	17.112	92	126602	49.76	ug/L	97
117) 2-ethylhexyl acrylate	19.016	70	9221	7.92	ug/L	88
118) hexachloroethane	17.567	201	42445	50.13	ug/L	98
119) 1,2-dibromo-3-chloropr...	18.048	75	13147	48.35	ug/L	95
120) 1,3,5-trichlorobenzene	18.289	180	128944	54.52	ug/L	99
121) 1,2,4-trichlorobenzene	19.016	180	118631	60.98	ug/L	99
122) hexachlorobutadiene	19.162	225	53857	53.23	ug/L	97
123) naphthalene	19.356	128	241177	59.49	ug/L	99
124) 1,2,3-trichlorobenzene	19.628	180	106155	63.88	ug/L	99
125) 2-methylnaphthalene	20.768	142	54722	32.95	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianng\10-25-18\vd10499\
Data File : d260117.d
Acq On : 24 Oct 2018 8:00 am
Operator : thienn
Sample : cc10401-50 Inst : MSD
Misc : ms27208,vd10499,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MD10401.M
Quant Results File: MD10401.RES
Quant Time: Oct 24 20:16:40 2018
Quant Title : SW846 8260C, Rxi-624 MS 60m x 0.25mm x 1.4um
QLast Update : Fri Oct 12 10:22:34 2018
Response via : Initial Calibration



GCMS Volatile Run Log

Standard / Reagents	Lot #			
Standards	ABK V018-2623-135.9	C V018-2623-141.9	E V018-2623-127.39	3rd Source Acetone V018-2623-124
Standard Concentration	100-10,000 PPM	100 PPM	100 PPM	200 PPM
Ext.Standards	Ext.ABK V018-2623-112.6	Ext.C V018-2623-142.5	Ext.E V018-2623-107.4	Ext.PA V018-2623-109.2
Standard Concentration	100-10,000 PPM	100 PPM	100 PPM	100 PPM
Internal Surrogate	V018-2623-123			
Internal Surrogate Concentratio n	250/2500 PPM			
Rough review by	Prashant B. Shukla			

Standard / Reagents			
GCMSC	Instrument ID:	Sequence loaded by	Prashant B. Shukla
Analysis Date	8/11/2018	Data processed by	dong,mei
Column	Rxi-624(60mx0.25mmx1.4um)	Batch ID	VC8261
Method	V8260C	Matrix	SO
Init Calib Date	8/11/2018	Approved By:	MEI
Init Calib Quant Method	MC8261	Approved Date:	8/14/2018 4:04:19 PM
DI Purge Volume	5		

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
C	222631	BFB		NA		TUNE	5.0	5		1	ok	12:30 PM
C	222632	IC8261-0.5		NA		IC8260	5.0	5		2	ok	1uL Std.A/B/K,C,E in 200mL DI H2O
C	222633	IC8261-1		NA		IC8260	5.0	5		3	ok	1uL Std.A/B/K,C,E in 100mL DI H2O
C	222634	IC8261-2		NA		IC8260	5.0	5		4	ok	2uL Std.A/B/K,C,E in 100mL DI H2O
C	222635	IC8261-4		NA		IC8260	5.0	5		5	ok	4uL Std.A/B/K,C,E in 100mL DI H2O

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Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
C	222636	IC8261-8		NA		IC8260	5.0	5		6	ok	8uL Std.A/B/K,C,E in 100mL DI H2O
C	222637	IC8261-20		NA		IC8260	5.0	5		7	ok	20uL Std.A/B/K,C,E in 100mL DI H2O
C	222638	ICC8261-50		NA		IC8260	5.0	5		8	ok	50uL Std.A/B/K,C,E in 100mL DI H2O
C	222639	IC8261-100		NA		IC8260	5.0	5		9	ok	100uL Std.A/B/K,C,E in 100mL DI H2O
C	222640	IC8261-200		NA		IC8260	5.0	5		10	ok	200uL Std.A/B/K,C,E in 100mL DI H2O
C	222641	IB		NA			5.0	5		11	OK	
C	222642	IB		NA			5.0	5		12	OK	
C	222643	ICV8261-50		NA		ICV8260	5.0	5		13	ok/rr	50uL Ext.A/B/K,C,E in 100mL DI H2O aceton high.
C	222644	ICV8261-50		NA		ICV8260	5.0	5		14	ok	50uL Ext.PA in 100mL DI H2O
C	222645	IB		NA			5.0	5		15	OK	7:41pm
C	222646	BFB2		NA			5.0	5		16	ok	
C	222647	ICV8261-50		NA			5.0	5		17	ok	50uL 3rd source Aceton in 50mL DI H2O

GCMS Volatile Run Log

Standard / Reagents	Lot #			
Standard	ABK V018-2629-61.55	EC V018-2629-94.1	Acrolein V018-2629-82.6	
Standard Concentrations	100/10000 PPM	100 PPM	100 PPM	
Internal Surrogate	V018-2629-68			
Internal Surrogate Concentratio n	250/2500 PPM			
Initial Calibration Method	MC8261			
NaHSO4				
Rough reviewed by	Prashant B. Shukla			

Standard / Reagents			
GCMSC	Instrument ID:	Sequence loaded by	Prashant B. Shukla
Analysis Date	10/25/2018	Data processed by	janellec
Column	RXI-624(30mx.25mmx1.4um)	Batch ID	VC8293
Method	V8260C	Matrix	SO
		Approved By:	KANYAV
Init Calib Quant Method	MC8261	Approved Date:	10/26/2018 1:44:16 PM
DI Purge Volume	5		

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
C	223284	BFB/CC8261-50		NA			5.0	5		1	ok/ok	25uL Std.A/B/K,EC,Acrolein in 50mL DI H2O, 8:35 AM
C	223285	BS		NA			5.0	5		2	ok	25uL Std.A/B/K,EC,Acrolein in 50mL DI H2O
C	223286	IB		NA			5.0	5		3	OK	
C	223287	MB		NA			5.0	5		4	OK	
C	223288	JC76497-1	6	NA	MS30276	V8260RCP	6.38	5		5	OK	
C	223289	JC76497-2	6	NA	MS30276	V8260RCP	6.05	5		6	OK	

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Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
C	223290	JC76508-1	6	NA	MS30275	V8260TCL42	5.5	5		7	OK/DL	
C	223291	JC76497-1MS	5	NA	MS30276	V8260RCP	5.93	5		8	OK	2.5uL Std.A/B/K,EC,Acrolein in sample
C	223292	IB		NA			5.0	5		9	OK	
C	223293	JC76497-2DUP	5	NA	MS30276	V8260RCP	5.09	5		10	OK	
C	223294	JC76481-3	5	NA	MS30261	V8260TCL20+	4.1	5		11	OK	
C	223295	JC76481-4	6	NA	MS30261	V8260TCL20+	4.6	5		12	OK	
C	223296	JC76481-5	6	NA	MS30261	V8260TCL20+	3.9	5		13	OK	
C	223297	JC76590-2	4	NA	MS30305	V8260TCL20	5.3	5		14	OK	
C	223298	JC76590-3	4	NA	MS30305	V8260TCL20	5.5	5		15	OK	
C	223299	JC76552-4	5	NA	MS30284	V8260TCL20+	5.3	5		16	OK	
C	223300	JC76524-1	5	NA	MS30284	V8260TCL20	6.61	5		17	OK	
C	223301	JC76524-3	5	NA	MS30284	V8260TCL20	7.83	5		18	OK	
C	223302	JC76524-7	5	NA	MS30284	V8260TCL20	5.76	5		19	OK	
C	223303	JC76524-9	5	NA	MS30284	V8260TCL20	6.48	5		20	OK	
C	223304	JC76524-13	5	NA	MS30284	V8260TCL20	5.82	5		21	OK/DL	SME
C	223305	JC76524-5	5	NA	MS30284	V8260TCL20	4.5	5		22	OK/DL	SME
C	223306	JC76524-11	5	NA	MS30284	V8260TCL20	3.97	5		23	OK/DL	SME, 7:44 PM
C	223307	IB		NA			5.0	5		24	OK	10/26/18
C	223308	IB		NA			5.0	5		25	OK	
C	223309	IB		NA			5.0	5		26	OK	

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GCMS Volatile Run Log

Standard / Reagents	Lot #			
STD	ABK, V018-2623-40.28	C V018-2623-48.2	E V018-2623-34.23	meoh lot # 173605TF
Conc.	100-10000ppm	100ppm	100ppm	
STD	EXT ABK v018-2623-28.3	EXT C v018-2623-42.7	EXT E v018-2623-25.3	EXT PA v018-2623-19.2
Conc.	100-10000ppm	100ppm	100ppm	100ppm
Internal/Surr	V018-2623-17			
Conc.	250/2500ppm			
Initial Calibration Method	MD10401			

Standard / Reagents			
gcmsd	Instrument ID:	Sequence loaded by	Prashant B. Shukla
Analysis Date	6/6/2018	Data processed by	Robert Szot
Column	RXI624(60mx0.25mmx1.4ul)	Batch ID	VD10401
Method	V8260C	Matrix	SO
Init Calib Date	6/6/18	Approved By:	JESSICA
Init Calib Quant Method	MD10401	Approved Date:	6/26/2018 6:08:45 PM
DI Purge Volume	5		

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
d	257653	IB		NA				5		1	ok	
d	257654	BFB		NA				5		2	ok	
d	257655	IC10401-0.5		NA		8260 initial cal.		5		3	ok	1 uL ABK C E / 200 mL
d	257656	IC10401-1		NA		8260 initial cal.		5		4	ok	1 uL ABK C E / 100 mL
d	257657	IC10401-2		NA		8260 initial cal.		5		5	ok	2 uL ABK C E / 100 mL

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Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
d	257658	IC10401-4		NA		8260 initial cal.		5		6	ok	4 uL ABK C E / 100 mL
d	257659	IC10401-8		NA		8260 initial cal.		5		7	ok	8 uL ABK C E / 100 mL
d	257660	IC10401-20		NA		8260 initial cal.		5		8	ok	20 uL ABK C E / 100 mL
d	257661	ICC10401-50		NA		8260 initial cal.		5		9	ok	50 uL ABK C E / 100 mL
d	257662	IC10401-100		NA		8260 initial cal.		5		10	ok	100 uL ABK C E / 100 mL
d	257663	IC10401-200		NA		8260 initial cal.		5		11	ok	200 uL ABK C E / 100 mL
d	257664	IB		NA				5		12	ok	
d	257665	IB		NA				5		13	ok	
d	257666	ICV10401-50		NA		8260 initial cal.		5		14	ok	50 uL EXT ABK C E / 100 mL
d	257667	ICV10401-50		NA		8260 initial cal.		5		15	ok	50 uL EXT PA / 100 mL
d	257668	IB		NA				5		16	ok	

GCMS Volatile Run Log

Standard / Reagents	Lot #			
STD	ABK, V018-2629-93.14	EC V018-2629-101.6	Acrolein V018-2629-82.47	meoh lot # 183485, Fisher Chemical
Conc.	100-10000ppm	100ppm	100ppm	
Internal/Surr	V018-2629-68			
Conc.	250/2500ppm			
Method	v8260c			
Init Calib Quant Method	md10401			

Standard / Reagents			
GCMSD	Instrument ID:	Sequence loaded by	thienn
Analysis Date	10/24/2018	Data processed by	marianng
Column	RXI624(60mx0.25mmx1.4ul)	Batch ID	VD10499
		Matrix	SO
		Approved By:	KANYAV
		Approved Date:	10/26/2018 1:18:41 PM
DI Purge Volume	5		

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
D	260115	IB		NA				5		1	ok	
D	260116	IB		NA				5		2	ok	
D	260117	BFB/CC10401-50		NA				5		3	OK/OK	ABK,EC, Acrolein 25ul/50ml DI water, 24 Oct 2018 8:00 am
D	260118	CC10401-8		NA				5		4	OK	ABK,EC, Acrolein 4ul/50ml DI water, for #43
D	260119	BS		NA				5		5	OK	ABK,EC, Acrolein 25ul/50ml DI water
D	260120	IB		NA				5		6	ok	

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Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
D	260121	MB/JC58165J-24A		NA	MS27208	V8260SL	5	5	100	7	OK	
D	260122	JC58163A-42		NA	MS23601	V8260SL	5	5	100	8	OK	Ref blank R14-10/16/2018
D	260123	JC76425-1	2	NA	MS30246	V8260CP51G	6.72	10	100	9	OK	
D	260124	JC76425-2	2	NA	MS30246	V8260CP51G	6.96	10	100	10	OK	
D	260125	JC76220-2	3	NA	MS30200	V8260TCL20+	5.7	5	100	11	OK	+C
D	260126	JC76220-1	3	NA	MS30200	V8260TCL20+	5.1	5	100	12	OK	+C
D	260127	JC76333-2	3	NA	MS30199	V8260PADFTMBMTBE	4.1	5	100	13	OK	+C
D	260128	JC76333-4	3	NA	MS30199	V8260PADFTMBMTBE	4.2	5	100	14	ok/dl	+C. f/d, surr out, rr 20x
D	260129	JC76425-1MS	2	NA	MS30246	V8260CP51G	6.72	10	100	15	OK	ABK,EC, Acrolein 25ul/50ml sample
D	260130	JC76425-1MSD	2	NA	MS30246	V8260CP51G	6.72	10	100	16	OK	ABK,EC, Acrolein 25ul/50ml sample
D	260131	IB		NA				5		17	ok	
D	260132	JC76333-4	3	NA	MS30199	V8260PADFTMBMTBE	4.2	5	5	18	OK	+D and C
D	260133	IB		NA				5		19	OK	
D	260134	JC76464-1	2	NA	MS30260	V8260PADFTMBMTBE	5.03	10	100	20	OK	
D	260135	JC76463-1	2	NA	MS30260	V8260PADFTMBMTBE	6.59	10	100	21	OK	
D	260136	IB		NA				5		22	OK	
D	260137	IB		NA				5		23	OK	
D	260138	JC76508-1	3	NA	MS30275	V8260TCL42	9.87	10	10	24	OK	+D
D	260139	JC76508-1	3	NA	MS30275	V8260TCL42	9.87	10	100	25	OK	+D 06:34pm
D	260140	IB		NA				5		26	OK	

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
D	260141	IB		NA				5		27	OK	
D	260142	IB		NA				5		28	OK	
D	260143	IB		NA				5		29	OK	
D	260144	IB		NA				5		30	OK	

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:29	MA45511-STD1	1		B=1.0576e-004,C=-4.7531e-003,R=0.9998596
09:30	MA45511-STD2	1		STDB
09:32	MA45511-STD3	1		STDC
09:33	MA45511-STD4	1		STDD
09:34	MA45511-STD5	1		STDE
09:36	MA45511-STD6	1		STDF
09:40	MA45511-ICV1	1		
09:41	MA45511-ICB1	1		
09:43	MA45511-CCV1	1		
09:44	MA45511-CCB1	1		
09:46	MA45511-CRI1	1		
09:58	MP9868-MB1	1		
09:59	MP9868-B1	1		
10:00	MP9868-S1	1		
10:02	MP9868-S2	1		
10:04	JC76495-1	1		(sample used for QC only; not part of login JC76508)
10:05	MA45511-CCV2	1		
10:07	MA45511-CCB2	1		
10:09	ZZZZZZ	1		
10:10	ZZZZZZ	1		
10:11	ZZZZZZ	1		
10:13	ZZZZZZ	1		
10:14	ZZZZZZ	1		
10:15	ZZZZZZ	1		
10:17	ZZZZZZ	1		
10:18	ZZZZZZ	1		
10:20	MA45511-CCV3	1		
10:21	MA45511-CCB3	1		
10:23	ZZZZZZ	1		
10:24	ZZZZZZ	1		
10:25	ZZZZZZ	1		
10:27	ZZZZZZ	1		
10:28	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	10:29	ZZZZZZ	1		
	10:31	ZZZZZZ	1		
	10:32	ZZZZZZ	1		
	10:34	JC76508-1	1		
---------->	Last reportable sample/prep for job JC76508				
	10:36	MA45511-CCV4	1		
	10:37	MA45511-CCB4	1		
---------->	Last reportable CCB for job JC76508				
	10:39	ZZZZZZ	1		
	10:40	MP9849-B1	1		
	10:41	MP9849-S1	1		
	10:43	MP9849-S2	1		
	10:45	JC76176-1	1		(sample used for QC only; not part of login JC76508)
	10:48	ZZZZZZ	1		
	10:50	ZZZZZZ	1		
	10:52	ZZZZZZ	1		
	10:54	ZZZZZZ	1		
	10:56	MA45511-CCV5	1		
	10:59	MA45511-CCB5	1		
	11:06	ZZZZZZ	1		
	11:08	ZZZZZZ	1		
	11:09	ZZZZZZ	1		
	11:10	ZZZZZZ	1		
	11:12	ZZZZZZ	1		
	11:13	ZZZZZZ	1		
	11:15	MA45511-CCV6	1		
	11:16	MA45511-CCB6	1		
	11:18	ZZZZZZ	1		
	11:19	ZZZZZZ	1		
	11:20	ZZZZZZ	1		
	11:22	ZZZZZZ	1		
	11:23	ZZZZZZ	1		
	11:25	ZZZZZZ	1		
	11:27	ZZZZZZ	1		
	11:28	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:30	MA45511-CCV7	1		
11:31	MA45511-CCB7	1		
11:33	ZZZZZZ	1		
11:34	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:37	ZZZZZZ	5		
11:39	MP9849-S1	10		
11:40	MP9849-S2	10		
11:42	JC76176-1	10		(sample used for QC only; not part of login JC76508)
11:44	ZZZZZZ	10		
11:45	MA45511-CCV8	1		
11:47	MA45511-CCB8	1		
11:49	ZZZZZZ	10		
11:50	ZZZZZZ	5		
11:52	ZZZZZZ	10		
11:54	MP9861-MB1	1		
11:55	MP9861-B1	1		
11:57	MP9861-S1	1		
11:59	MP9861-S2	1		
12:00	JC76462-27	1		(sample used for QC only; not part of login JC76508)
12:02	MA45511-CCV9	1		
12:04	MA45511-CCB9	1		
12:06	ZZZZZZ	1		
12:07	ZZZZZZ	1		
12:09	ZZZZZZ	1		
12:10	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:13	ZZZZZZ	5		
12:15	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:18	MA45511-CCV10	1		
12:19	MA45511-CCB10	1		
12:21	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:22	ZZZZZZ	1		
12:24	ZZZZZZ	1		
12:25	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:29	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:32	ZZZZZZ	1		
12:33	MA45511-CCV11	1		
12:34	MA45511-CCB11	1		
12:36	ZZZZZZ	1		
12:37	ZZZZZZ	1		
12:39	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:42	MP9893-MB1	1		
12:43	MP9893-B1	1		
12:45	MP9893-S1	1		
12:46	MP9893-S2	1		
12:48	MA45511-CCV12	1		
12:50	MA45511-CCB12	1		
12:52	JC76151-1R	1		(sample used for QC only; not part of login JC76508)
12:53	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:57	ZZZZZZ	2		
12:59	MP9847-MB1	1		
13:00	MP9847-B1	1		
13:02	ZZZZZZ	1		
13:04	ZZZZZZ	1		
13:05	MA45511-CCV13	1		
13:08	MA45511-CCB13	1		
13:09	JC75993-2	1		(sample used for QC only; not part of login JC76508)
13:11	ZZZZZZ	1		
13:12	ZZZZZZ	1		
13:14	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:15	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:18	ZZZZZZ	1		
13:19	ZZZZZZ	1		
13:21	MA45511-CCV14	1		
13:22	MA45511-CCB14	1		
13:24	ZZZZZZ	1		
13:25	ZZZZZZ	1		
13:27	ZZZZZZ	1		
13:29	ZZZZZZ	1		
13:31	ZZZZZZ	1		
13:33	ZZZZZZ	1		
13:34	ZZZZZZ	1		
13:35	ZZZZZZ	1		
13:37	MA45511-CCV15	1		
13:39	MA45511-CCB15	1		CCB out
13:42	MA45511-CCB16	1		
13:45	MA45511-CCV16	1		
13:46	MA45511-CCB17	1		
13:48	ZZZZZZ	1		
13:49	ZZZZZZ	1		
13:51	ZZZZZZ	1		
13:52	ZZZZZZ	1		
13:54	MP9849-MB1	1		
13:55	MP9847-S1	1		
13:57	MP9847-S2	1		
13:59	MA45511-CCV17	1		
14:00	MA45511-CCB18	1		
14:02	MP9848-MB1	1		
14:04	MP9848-B1	1		
14:05	MP9848-S1	1		
14:07	MP9848-S2	1		
14:08	JC76202-4	1		(sample used for QC only; not part of login JC76508)

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:10	ZZZZZZ	1		
14:12	ZZZZZZ	1		
14:14	ZZZZZZ	1		
14:15	MA45511-CCV18	1		
14:17	MA45511-CCB19	1		
14:19	ZZZZZZ	1		
14:20	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:23	ZZZZZZ	1		
14:24	ZZZZZZ	1		
14:26	ZZZZZZ	1		
14:27	ZZZZZZ	1		
14:29	ZZZZZZ	1		
14:30	MA45511-CCV19	1		
14:32	MA45511-CCB20	1		
14:33	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:36	ZZZZZZ	1		
14:38	ZZZZZZ	1		
14:39	ZZZZZZ	1		
14:41	ZZZZZZ	1		
14:42	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:45	MA45511-CCV20	1		
14:47	MA45511-CCB21	1		
14:48	ZZZZZZ	1		
14:50	ZZZZZZ	1		
14:51	ZZZZZZ	5		
14:53	ZZZZZZ	5		
14:55	ZZZZZZ	20		
14:57	ZZZZZZ	1		
14:58	ZZZZZZ	1		
15:00	MA45511-CCV21	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:01	MA45511-CCB22	1		
15:03	ZZZZZZ	1		
15:04	ZZZZZZ	1		
15:06	ZZZZZZ	1		
15:07	ZZZZZZ	1		
15:09	ZZZZZZ	1		
15:10	ZZZZZZ	1		
15:12	ZZZZZZ	1		
15:15	ZZZZZZ	1		
15:21	MP9850-MB1	1		
15:23	MP9850-B1	1		
15:24	MA45511-CCV22	1		
15:26	MA45511-CCB23	1		
15:28	ZZZZZZ	1		
15:29	MP9850-S2	1		
15:31	JC76177-1	1		(sample used for QC only; not part of login JC76508)
15:34	ZZZZZZ	1		
15:36	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:39	ZZZZZZ	1		
15:40	ZZZZZZ	1		
15:42	ZZZZZZ	1		
15:43	MA45511-CCV23	1		
15:45	MA45511-CCB24	1		
15:47	ZZZZZZ	1		
15:48	ZZZZZZ	1		
15:50	ZZZZZZ	1		
15:51	ZZZZZZ	1		
15:53	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:56	ZZZZZZ	1		
15:58	ZZZZZZ	1		
16:00	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:02	MA45511-CCV24	1		
16:04	MA45511-CCB25	1		CCB out
16:08	MA45511-CCB26	1		
16:14	MA45511-CCV25	1		
16:16	MA45511-CCB27	1		
16:17	ZZZZZZ	1		
16:19	ZZZZZZ	1		
16:20	ZZZZZZ	1		
16:22	ZZZZZZ	2		
16:24	ZZZZZZ	1		
16:26	ZZZZZZ	1		
16:27	ZZZZZZ	2		
16:29	ZZZZZZ	2		
16:31	ZZZZZZ	2		
16:33	MA45511-CCV26	1		
16:35	MA45511-CCB28	1		
16:37	ZZZZZZ	1		
16:38	ZZZZZZ	1		
16:39	ZZZZZZ	1		
16:41	MP9850-S1	1		
16:42	MP9850-S1	5		
16:44	MP9850-S2	5		
16:46	JC76177-1	5		(sample used for QC only; not part of login JC76508)
16:48	MA45511-CCV27	1		
16:49	MA45511-CCB29	1		
17:02	ZZZZZZ	1		
17:05	ZZZZZZ	1		
17:07	MA45511-CCV28	1		
17:09	MA45511-CCB30	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
09:40	MA45511-ICV1	1	X	
09:41	MA45511-ICB1	1	X	
09:43	MA45511-CCV1	1	X	
09:44	MA45511-CCB1	1	X	
09:46	MA45511-CRI1	1	X	
09:58	MP9868-MB1	1	X	
09:59	MP9868-B1	1	X	
10:00	MP9868-S1	1	X	
10:02	MP9868-S2	1	X	
10:04	JC76495-1	1	X	(a)
10:05	MA45511-CCV2	1	X	
10:07	MA45511-CCB2	1	X	
10:09	ZZZZZZ	1		
10:10	ZZZZZZ	1		
10:11	ZZZZZZ	1		
10:13	ZZZZZZ	1		
10:14	ZZZZZZ	1		
10:15	ZZZZZZ	1		
10:17	ZZZZZZ	1		
10:18	ZZZZZZ	1		
10:20	MA45511-CCV3	1	X	
10:21	MA45511-CCB3	1	X	
10:23	ZZZZZZ	1		
10:24	ZZZZZZ	1		
10:25	ZZZZZZ	1		
10:27	ZZZZZZ	1		
10:28	ZZZZZZ	1		
10:29	ZZZZZZ	1		
10:31	ZZZZZZ	1		
10:32	ZZZZZZ	1		
10:34	JC76508-1	1	X	
10:36	MA45511-CCV4	1	X	
10:37	MA45511-CCB4	1	X	
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
10:39	ZZZZZZ	1		
10:40	MP9849-B1	1	X	
10:41	MP9849-S1	1		
10:43	MP9849-S2	1		
10:45	JC76176-1	1		(a)
10:48	ZZZZZZ	1		
10:50	ZZZZZZ	1		
10:52	ZZZZZZ	1		
10:54	ZZZZZZ	1		
10:56	MA45511-CCV5	1	X	
10:59	MA45511-CCB5	1	X	
11:06	ZZZZZZ	1		
11:08	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:10	ZZZZZZ	1		
11:12	ZZZZZZ	1		
11:13	ZZZZZZ	1		
11:15	MA45511-CCV6	1	X	
11:16	MA45511-CCB6	1	X	
11:18	ZZZZZZ	1		
11:19	ZZZZZZ	1		
11:20	ZZZZZZ	1		
11:22	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:25	ZZZZZZ	1		
11:27	ZZZZZZ	1		
11:28	ZZZZZZ	1		
11:30	MA45511-CCV7	1	X	
11:31	MA45511-CCB7	1	X	
11:33	ZZZZZZ	1		
11:34	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:37	ZZZZZZ	5		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
11:39	MP9849-S1	10	X	
11:40	MP9849-S2	10	X	
11:42	JC76176-1	10	X	(a)
11:44	ZZZZZZ	10		
11:45	MA45511-CCV8	1	X	
11:47	MA45511-CCB8	1	X	
11:49	ZZZZZZ	10		
11:50	ZZZZZZ	5		
11:52	ZZZZZZ	10		
11:54	MP9861-MB1	1	X	
11:55	MP9861-B1	1	X	
11:57	MP9861-S1	1	X	
11:59	MP9861-S2	1	X	
12:00	JC76462-27	1	X	(a)
12:02	MA45511-CCV9	1	X	
12:04	MA45511-CCB9	1	X	
12:06	ZZZZZZ	1		
12:07	ZZZZZZ	1		
12:09	ZZZZZZ	1		
12:10	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:13	ZZZZZZ	5		
12:15	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:18	MA45511-CCV10	1	X	
12:19	MA45511-CCB10	1	X	
12:21	ZZZZZZ	1		
12:22	ZZZZZZ	1		
12:24	ZZZZZZ	1		
12:25	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:29	ZZZZZZ	1		
12:30	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
12:32	ZZZZZZ	1	
12:33	MA45511-CCV11	1	X
12:34	MA45511-CCB11	1	X
12:36	ZZZZZZ	1	
12:37	ZZZZZZ	1	
12:39	ZZZZZZ	1	
12:40	ZZZZZZ	1	
12:42	MP9893-MB1	1	X
12:43	MP9893-B1	1	X
12:45	MP9893-S1	1	X
12:46	MP9893-S2	1	X
12:48	MA45511-CCV12	1	X
12:50	MA45511-CCB12	1	X
12:52	JC76151-1R	1	X (a)
12:53	ZZZZZZ	1	
12:54	ZZZZZZ	1	
12:57	ZZZZZZ	2	
12:59	MP9847-MB1	1	X
13:00	MP9847-B1	1	X
13:02	ZZZZZZ	1	
13:04	ZZZZZZ	1	
13:05	MA45511-CCV13	1	X
13:08	MA45511-CCB13	1	X
13:09	JC75993-2	1	X (a)
13:11	ZZZZZZ	1	
13:12	ZZZZZZ	1	
13:14	ZZZZZZ	1	
13:15	ZZZZZZ	1	
13:16	ZZZZZZ	1	
13:18	ZZZZZZ	1	
13:19	ZZZZZZ	1	
13:21	MA45511-CCV14	1	X
13:22	MA45511-CCB14	1	X
		Element:	Hg

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
13:24	ZZZZZZ	1	
13:25	ZZZZZZ	1	
13:27	ZZZZZZ	1	
13:29	ZZZZZZ	1	
13:31	ZZZZZZ	1	
13:33	ZZZZZZ	1	
13:34	ZZZZZZ	1	
13:35	ZZZZZZ	1	
13:37	MA45511-CCV15	1	X
13:39	MA45511-CCB15	1	X
13:42	MA45511-CCB16	1	X
13:45	MA45511-CCV16	1	X
13:46	MA45511-CCB17	1	X
13:48	ZZZZZZ	1	
13:49	ZZZZZZ	1	
13:51	ZZZZZZ	1	
13:52	ZZZZZZ	1	
13:54	MP9849-MB1	1	X
13:55	MP9847-S1	1	X
13:57	MP9847-S2	1	X
13:59	MA45511-CCV17	1	X
14:00	MA45511-CCB18	1	X
14:02	MP9848-MB1	1	X
14:04	MP9848-B1	1	X
14:05	MP9848-S1	1	X
14:07	MP9848-S2	1	X
14:08	JC76202-4	1	X (a)
14:10	ZZZZZZ	1	
14:12	ZZZZZZ	1	
14:14	ZZZZZZ	1	
14:15	MA45511-CCV18	1	X
14:17	MA45511-CCB19	1	X
14:19	ZZZZZZ	1	
		Element:	Hg

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
14:20	ZZZZZZ	1	
14:21	ZZZZZZ	1	
14:23	ZZZZZZ	1	
14:24	ZZZZZZ	1	
14:26	ZZZZZZ	1	
14:27	ZZZZZZ	1	
14:29	ZZZZZZ	1	
14:30	MA45511-CCV19	1	X
14:32	MA45511-CCB20	1	X
14:33	ZZZZZZ	1	
14:35	ZZZZZZ	1	
14:36	ZZZZZZ	1	
14:38	ZZZZZZ	1	
14:39	ZZZZZZ	1	
14:41	ZZZZZZ	1	
14:42	ZZZZZZ	1	
14:44	ZZZZZZ	1	
14:45	MA45511-CCV20	1	X
14:47	MA45511-CCB21	1	X
14:48	ZZZZZZ	1	
14:50	ZZZZZZ	1	
14:51	ZZZZZZ	5	
14:53	ZZZZZZ	5	
14:55	ZZZZZZ	20	
14:57	ZZZZZZ	1	
14:58	ZZZZZZ	1	
15:00	MA45511-CCV21	1	X
15:01	MA45511-CCB22	1	X
15:03	ZZZZZZ	1	
15:04	ZZZZZZ	1	
15:06	ZZZZZZ	1	
15:07	ZZZZZZ	1	
15:09	ZZZZZZ	1	
		Element:	Hg

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
15:10	ZZZZZZ	1		
15:12	ZZZZZZ	1		
15:15	ZZZZZZ	1		
15:21	MP9850-MB1	1	X	
15:23	MP9850-B1	1	X	
15:24	MA45511-CCV22	1	X	
15:26	MA45511-CCB23	1	X	
15:28	ZZZZZZ	1		
15:29	MP9850-S2	1		
15:31	JC76177-1	1		(a)
15:34	ZZZZZZ	1		
15:36	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:39	ZZZZZZ	1		
15:40	ZZZZZZ	1		
15:42	ZZZZZZ	1		
15:43	MA45511-CCV23	1	X	
15:45	MA45511-CCB24	1	X	
15:47	ZZZZZZ	1		
15:48	ZZZZZZ	1		
15:50	ZZZZZZ	1		
15:51	ZZZZZZ	1		
15:53	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:56	ZZZZZZ	1		
15:58	ZZZZZZ	1		
16:00	ZZZZZZ	1		
16:02	MA45511-CCV24	1	X	
16:04	MA45511-CCB25	1	X	
16:08	MA45511-CCB26	1	X	
16:14	MA45511-CCV25	1	X	
16:16	MA45511-CCB27	1	X	
16:17	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
Analyst: GT Run ID: MA45511
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
16:19	ZZZZZZ	1	
16:20	ZZZZZZ	1	
16:22	ZZZZZZ	2	
16:24	ZZZZZZ	1	
16:26	ZZZZZZ	1	
16:27	ZZZZZZ	2	
16:29	ZZZZZZ	2	
16:31	ZZZZZZ	2	
16:33	MA45511-CCV26	1	X
16:35	MA45511-CCB28	1	X
16:37	ZZZZZZ	1	
16:38	ZZZZZZ	1	
16:39	ZZZZZZ	1	
16:41	MP9850-S1	1	
16:42	MP9850-S1	5	X
16:44	MP9850-S2	5	X
16:46	JC76177-1	5	X (a)
16:48	MA45511-CCV27	1	X
16:49	MA45511-CCB29	1	X
17:02	ZZZZZZ	1	
17:05	ZZZZZZ	1	
17:07	MA45511-CCV28	1	X
17:09	MA45511-CCB30	1	X

(a) Sample used for QC only; not part of login JC76508.

Element: Hg

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA45511 Units: ug/l

Time:			09:41		09:44		10:07		10:21	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.017	-0.0258	<0.20	-0.0224	<0.20	-0.0311	<0.20	-0.0301	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA45511 Units: ug/l

Time:			10:37	
Sample ID:			CCB4	
Metal	RL	IDL	raw	final
Mercury	0.20	.017	-0.0245	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA45511 Units: ug/l

Time:		09:40			09:43			10:05	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.07	102.3	2.5	2.51	100.4	2.5	2.50	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA45511 Units: ug/l

Time:		10:20			10:36	
Sample ID:	CCV	CCV3		CCV	CCV4	
Metal	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.47	98.8	2.5	2.45	98.0

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: H8102518S1.CSV Date Analyzed: 10/25/18 Methods: SW846 7471B
QC Limits: 70 to 130 % Recovery Run ID: MA45511 Units: ug/l

Time:			09:46	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Mercury	0.20		0.205	102.5

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:29	MA45520-STD1	1		STDA
15:34	MA45520-STD2	1		STDB
15:40	ZZZZZZ	1		
15:45	ZZZZZZ	1		
15:50	MA45520-ICV1	1		
15:56	MA45520-ICB1	1		
16:01	MA45520-CCV1	1		
16:06	MA45520-CCB1	1		
16:12	MA45520-CRID1	1		
16:17	MA45520-CRI1	1		
16:23	MA45520-ICSA1	1		
16:28	MA45520-ICSAB1	1		
16:33	MA45520-HSTD1	1		
16:39	MA45520-HSTD2	1		
16:44	ZZZZZZ	1		
16:50	ZZZZZZ	1		
16:55	MA45520-CCV2	1		
17:00	MA45520-CCB2	1		
17:06	ZZZZZZ	1		
17:11	ZZZZZZ	1		
17:17	ZZZZZZ	1		
17:23	MP9814-MB1	1		
17:28	MP9814-B1	1		
17:33	MP9814-S1	1		FE high
17:38	MP9814-S2	1		FE high
17:43	JC76377-1	1		(sample used for QC only; not part of login JC76508)
17:49	MP9814-SD1	5		FE high
17:54	MA45520-CCV3	1		
17:59	MA45520-CCB3	1		
18:05	ZZZZZZ	1		
18:10	ZZZZZZ	1		
18:15	ZZZZZZ	1		
18:21	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:26	ZZZZZZ	1		
18:31	ZZZZZZ	1		
18:37	ZZZZZZ	1		
18:42	ZZZZZZ	1		
18:47	ZZZZZZ	1		
18:53	MA45520-CCV4	1		
18:58	MA45520-CCB4	1		
19:03	ZZZZZZ	1		
19:09	ZZZZZZ	1		
19:14	ZZZZZZ	1		
19:19	ZZZZZZ	1		
19:25	ZZZZZZ	1		
19:30	ZZZZZZ	1		
19:35	ZZZZZZ	1		
19:41	ZZZZZZ	1		
19:46	ZZZZZZ	1		
19:51	MA45520-CCV5	1		
19:58	MA45520-CCB5	1		
20:04	ZZZZZZ	1		
20:09	ZZZZZZ	1		
20:15	ZZZZZZ	1		
20:20	ZZZZZZ	20		
20:25	MP9843-B1	1		rerun with spectra
20:30	MP9843-MB1	1		rerun with spectra
20:36	ZZZZZZ	1		
20:41	ZZZZZZ	1		
20:47	ZZZZZZ	1		
20:52	ZZZZZZ	1		
20:57	MA45520-CCV6	1		
21:02	MA45520-CCB6	1		
21:08	ZZZZZZ	1		
21:13	ZZZZZZ	1		
21:19	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:24	ZZZZZZ	1		
21:30	JC76113-1F	1		(sample used for QC only; not part of login JC76508)
21:35	ZZZZZZ	1		
21:41	ZZZZZZ	1		
21:46	ZZZZZZ	1		
21:52	ZZZZZZ	1		
21:57	MA45520-CCV7	1		
22:02	MA45520-CCB7	1		
22:08	ZZZZZZ	1		
22:13	ZZZZZZ	1		
22:19	MP9836-MB1	1		
22:25	MP9836-B1	1		
22:30	MP9836-S1	1		
22:35	MP9836-S2	1		
22:40	JC76324-12	1		(sample used for QC only; not part of login JC76508)
22:45	MP9836-SD1	5		
22:51	ZZZZZZ	1		
22:56	MA45520-CCV8	1		
23:01	MA45520-CCB8	1		
23:07	ZZZZZZ	1		
23:12	ZZZZZZ	5		
23:18	ZZZZZZ	2		
23:25	MA45520-ICSA2	1		
23:30	MA45520-ICSAB2	1		
23:35	MA45520-CCV9	1		
23:40	MA45520-CCB9	1		
23:46	ZZZZZZ	1		
23:51	ZZZZZZ	1		
23:57	ZZZZZZ	1		
00:02	ZZZZZZ	1		
00:08	ZZZZZZ	1		
00:14	ZZZZZZ	1		
00:19	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:25	ZZZZZZ	1		
00:30	ZZZZZZ	1		
00:36	ZZZZZZ	1		
00:42	ZZZZZZ	1		
00:47	ZZZZZZ	1		
00:53	MA45520-CCV10	1		
00:58	MA45520-CCB10	1		
01:03	MP9793-MB1	1		
01:09	MP9793-B1	1		
01:14	MP9793-B3	1		
01:19	MP9793-S1	1		
01:24	MP9793-S2	1		
01:29	JC76187-1	1		(sample used for QC only; not part of login JC76508)
01:35	MP9793-SD1	5		
01:40	MP9793-S3	1		
01:45	MP9793-S4	1		
01:50	MA45520-CCV11	1		
01:55	MA45520-CCB11	1		
02:01	JC76187-1F	1		(sample used for QC only; not part of login JC76508)
02:06	MP9793-SD2	5		
02:12	ZZZZZZ	1		
02:17	ZZZZZZ	5		
02:23	ZZZZZZ	5		
02:28	ZZZZZZ	5		
02:34	ZZZZZZ	5		
02:40	ZZZZZZ	5		
02:45	ZZZZZZ	5		
02:51	MA45520-CCV12	1		
02:56	MA45520-CCB12	1		
03:01	ZZZZZZ	5		
03:07	ZZZZZZ	5		
03:13	ZZZZZZ	5		
03:18	ZZZZZZ	5		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
03:24	ZZZZZZ	5		
03:30	ZZZZZZ	5		
03:35	ZZZZZZ	5		
03:41	ZZZZZZ	5		
03:46	ZZZZZZ	5		
03:52	MA45520-CCV13	1		
03:57	MA45520-CCB13	1		
04:03	ZZZZZZ	5		
04:08	ZZZZZZ	5		
04:14	ZZZZZZ	5		
04:19	ZZZZZZ	5		
04:25	MP9842-B1	1		
04:30	MP9842-MB1	1		
04:36	MP9842-S1	1		
04:41	MP9842-S2	1		
04:46	JC76471-9	1		(sample used for QC only; not part of login JC76508)
04:52	MP9842-SD1	5		
04:57	MA45520-CCV14	1		
05:02	MA45520-CCB14	1		
05:08	ZZZZZZ	1		
05:13	ZZZZZZ	1		
05:19	ZZZZZZ	1		
05:24	ZZZZZZ	1		
05:29	ZZZZZZ	1		
05:35	ZZZZZZ	1		
05:40	ZZZZZZ	1		
05:46	ZZZZZZ	1		
05:51	ZZZZZZ	1		
05:57	MA45520-CCV15	1		
06:02	MA45520-CCB15	1		
06:07	ZZZZZZ	1		
06:13	ZZZZZZ	1		
06:18	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	06:23	ZZZZZZ	1		
	06:29	ZZZZZZ	1		
	06:34	ZZZZZZ	1		
	06:39	ZZZZZZ	1		
	06:45	ZZZZZZ	1		
	06:50	ZZZZZZ	1		
	06:56	MA45520-CCV16	1		
	07:01	MA45520-CCB16	1		
	07:06	ZZZZZZ	5		
	07:12	MP9853-MB1	1		
	07:17	MP9853-B1	1		
	07:22	MP9853-S1	1		%sol. Needs post spike for K, SB
	07:28	MP9853-S2	1		%sol
	07:33	JC76479-1	1		(sample used for QC only; not part of login JC76508)
	07:38	MP9853-SD1	5		%sol
	07:44	JC76508-1	1		
---------->	Last reportable sample/prep for job JC76508				
	07:49	MA45520-CCV17	1		
	07:54	MA45520-CCB17	1		
---------->	Last reportable CCB for job JC76508				
	08:16	MP9755-S1	5		needs post spike on dilution for Sb
	08:21	MP9755-S2	5		
	08:27	JC75143-12	5		(sample used for QC only; not part of login JC76508)
	08:32	MP9755-SD1	25		
	08:37	MP9755-PS1	1		
	08:42	ZZZZZZ	1		
	08:48	ZZZZZZ	2		
	08:53	ZZZZZZ	5		
	08:58	ZZZZZZ	2		
	09:04	MA45520-CCV18	1		
	09:09	MA45520-CCB18	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Element: Dilution	As	Ba	Cd	Cr	Pb	Se	Ag	
15:40	ZZZZZZ	1								
15:45	ZZZZZZ	1								
15:50	MA45520-ICV1	1	X	X	X	X	X	X	X	
15:56	MA45520-ICB1	1	X	X	X	X	X	X	X	
16:01	MA45520-CCV1	1	X	X	X	X	X	X	X	
16:06	MA45520-CCB1	1	X	X	X	X	X	X	X	
16:12	MA45520-CRID1	1	X	X	X	X	X	X	X	
16:17	MA45520-CRI1	1	X	X	X	X	X	X	X	
16:23	MA45520-ICSA1	1	X	X	X	X	X	X	X	
16:28	MA45520-ICSAB1	1	X	X	X	X	X	X	X	
16:33	MA45520-HSTD1	1	X	X	X	X	X	X	X	
16:39	MA45520-HSTD2	1	X	X	X	X		X	X	
16:44	ZZZZZZ	1								
16:50	ZZZZZZ	1								
16:55	MA45520-CCV2	1	X	X	X	X	X	X	X	
17:00	MA45520-CCB2	1	X	X	X	X	X	X	X	
17:06	ZZZZZZ	1								
17:11	ZZZZZZ	1								
17:17	ZZZZZZ	1								
17:23	MP9814-MB1	1				X	X			
17:28	MP9814-B1	1				X	X			
17:33	MP9814-S1	1				X				
17:38	MP9814-S2	1				X				
17:43	JC76377-1	1				X				(a)
17:49	MP9814-SD1	5				X				
17:54	MA45520-CCV3	1	X	X	X	X	X	X	X	
17:59	MA45520-CCB3	1	X	X	X	X	X	X	X	
18:05	ZZZZZZ	1								
18:10	ZZZZZZ	1								
18:15	ZZZZZZ	1								
18:21	ZZZZZZ	1								
18:26	ZZZZZZ	1								
18:31	ZZZZZZ	1								
		Element:	As	Ba	Cd	Cr	Pb	Se	Ag	

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Element: Dilution	As	Ba	Cd	Cr	Pb	Se	Ag
18:37	ZZZZZZ	1							
18:42	ZZZZZZ	1							
18:47	ZZZZZZ	1							
18:53	MA45520-CCV4	1	X	X	X	X	X	X	X
18:58	MA45520-CCB4	1	X	X	X	X	X	X	X
19:03	ZZZZZZ	1							
19:09	ZZZZZZ	1							
19:14	ZZZZZZ	1							
19:19	ZZZZZZ	1							
19:25	ZZZZZZ	1							
19:30	ZZZZZZ	1							
19:35	ZZZZZZ	1							
19:41	ZZZZZZ	1							
19:46	ZZZZZZ	1							
19:51	MA45520-CCV5	1	X	X	X	X	X	X	X
19:58	MA45520-CCB5	1	X	X	X	X	X	X	X
20:04	ZZZZZZ	1							
20:09	ZZZZZZ	1							
20:15	ZZZZZZ	1							
20:20	ZZZZZZ	20							
20:25	MP9843-B1	1	rerun with spectra						
20:30	MP9843-MB1	1	rerun with spectra						
20:36	ZZZZZZ	1							
20:41	ZZZZZZ	1							
20:47	ZZZZZZ	1							
20:52	ZZZZZZ	1							
20:57	MA45520-CCV6	1	X	X	X	X	X	X	X
21:02	MA45520-CCB6	1	X	X	X	X	X	X	X
21:08	ZZZZZZ	1							
21:13	ZZZZZZ	1							
21:19	ZZZZZZ	1							
21:24	ZZZZZZ	1							
21:30	JC76113-1F	1							
		Element:	As	Ba	Cd	Cr	Pb	Se	Ag

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Element: Dilution	As	Ba	Cd	Cr	Pb	Se	Ag	
21:35	ZZZZZZ	1								
21:41	ZZZZZZ	1								
21:46	ZZZZZZ	1								
21:52	ZZZZZZ	1								
21:57	MA45520-CCV7	1	X	X	X	X	X	X	X	
22:02	MA45520-CCB7	1	X	X	X	X	X	X	X	
22:08	ZZZZZZ	1								
22:13	ZZZZZZ	1								
22:19	MP9836-MB1	1	X	X		X	X	X		
22:25	MP9836-B1	1	X	X		X	X	X		
22:30	MP9836-S1	1	X	X		X	X	X		
22:35	MP9836-S2	1	X	X		X	X	X		
22:40	JC76324-12	1								(a)
22:45	MP9836-SD1	5	X	X		X	X	X		
22:51	ZZZZZZ	1								
22:56	MA45520-CCV8	1	X	X	X	X	X	X	X	
23:01	MA45520-CCB8	1	X	X	X	X	X	X	X	
23:07	ZZZZZZ	1								
23:12	ZZZZZZ	5								
23:18	ZZZZZZ	2								
23:25	MA45520-ICSA2	1	X	X	X	X	X	X	X	
23:30	MA45520-ICSAB2	1	X	X	X	X	X	X	X	
23:35	MA45520-CCV9	1	X	X	X	X	X	X	X	
23:40	MA45520-CCB9	1	X	X	X	X	X	X	X	
23:46	ZZZZZZ	1								
23:51	ZZZZZZ	1								
23:57	ZZZZZZ	1								
00:02	ZZZZZZ	1								
00:08	ZZZZZZ	1								
00:14	ZZZZZZ	1								
00:19	ZZZZZZ	1								
00:25	ZZZZZZ	1								
00:30	ZZZZZZ	1								
		Element:	As	Ba	Cd	Cr	Pb	Se	Ag	

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Element: Dilution	As	Ba	Cd	Cr	Pb	Se	Ag	
00:36	ZZZZZZ	1								
00:42	ZZZZZZ	1								
00:47	ZZZZZZ	1								
00:53	MA45520-CCV10	1	X	X	X	X	X	X	X	
00:58	MA45520-CCB10	1	X	X	X	X	X	X	X	
01:03	MP9793-MB1	1		X	X	X	X	X	X	
01:09	MP9793-B1	1		X	X	X	X	X	X	
01:14	MP9793-B3	1		X	X	X	X	X	X	
01:19	MP9793-S1	1		X	X	X	X	X	X	
01:24	MP9793-S2	1		X	X	X	X	X	X	
01:29	JC76187-1	1		X	X	X	X	X	X	(a)
01:35	MP9793-SD1	5		X	X	X	X	X	X	
01:40	MP9793-S3	1		X	X	X	X	X	X	
01:45	MP9793-S4	1		X	X	X	X	X	X	
01:50	MA45520-CCV11	1	X	X	X	X	X	X	X	
01:55	MA45520-CCB11	1	X	X	X	X	X	X	X	
02:01	JC76187-1F	1		X	X	X	X	X	X	(a)
02:06	MP9793-SD2	5		X	X	X	X	X	X	
02:12	ZZZZZZ	1								
02:17	ZZZZZZ	5								
02:23	ZZZZZZ	5								
02:28	ZZZZZZ	5								
02:34	ZZZZZZ	5								
02:40	ZZZZZZ	5								
02:45	ZZZZZZ	5								
02:51	MA45520-CCV12	1	X	X	X	X	X	X	X	
02:56	MA45520-CCB12	1	X	X	X	X	X	X	X	
03:01	ZZZZZZ	5								
03:07	ZZZZZZ	5								
03:13	ZZZZZZ	5								
03:18	ZZZZZZ	5								
03:24	ZZZZZZ	5								
03:30	ZZZZZZ	5								
		Element:	As	Ba	Cd	Cr	Pb	Se	Ag	

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Element: Dilution	As	Ba	Cd	Cr	Pb	Se	Ag	
03:35	ZZZZZZ	5								
03:41	ZZZZZZ	5								
03:46	ZZZZZZ	5								
03:52	MA45520-CCV13	1	X	X	X	X	X	X	X	
03:57	MA45520-CCB13	1	X	X	X	X	X	X	X	
04:03	ZZZZZZ	5								
04:08	ZZZZZZ	5								
04:14	ZZZZZZ	5								
04:19	ZZZZZZ	5								
04:25	MP9842-B1	1			X	X	X			
04:30	MP9842-MB1	1			X	X	X			
04:36	MP9842-S1	1			X	X	X			
04:41	MP9842-S2	1			X	X	X			
04:46	JC76471-9	1					X			(a)
04:52	MP9842-SD1	5			X	X	X			
04:57	MA45520-CCV14	1	X	X	X	X	X	X	X	
05:02	MA45520-CCB14	1	X	X	X	X	X	X	X	
05:08	ZZZZZZ	1								
05:13	ZZZZZZ	1								
05:19	ZZZZZZ	1								
05:24	ZZZZZZ	1								
05:29	ZZZZZZ	1								
05:35	ZZZZZZ	1								
05:40	ZZZZZZ	1								
05:46	ZZZZZZ	1								
05:51	ZZZZZZ	1								
05:57	MA45520-CCV15	1	X	X	X	X	X	X	X	
06:02	MA45520-CCB15	1	X	X	X	X	X	X	X	
06:07	ZZZZZZ	1								
06:13	ZZZZZZ	1								
06:18	ZZZZZZ	1								
06:23	ZZZZZZ	1								
06:29	ZZZZZZ	1								
		Element:	As	Ba	Cd	Cr	Pb	Se	Ag	

REPORTED ELEMENTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Element: Dilution	As	Ba	Cd	Cr	Pb	Se	Ag	
06:34	ZZZZZZ	1								
06:39	ZZZZZZ	1								
06:45	ZZZZZZ	1								
06:50	ZZZZZZ	1								
06:56	MA45520-CCV16	1	X	X	X	X	X	X	X	
07:01	MA45520-CCB16	1	X	X	X	X	X	X	X	
07:06	ZZZZZZ	5								
07:12	MP9853-MB1	1	X	X	X	X	X	X	X	
07:17	MP9853-B1	1	X	X	X	X	X	X	X	
07:22	MP9853-S1	1	X	X	X	X	X	X	X	
07:28	MP9853-S2	1	X	X	X	X	X	X	X	
07:33	JC76479-1	1	X	X	X	X	X	X	X	(a)
07:38	MP9853-SD1	5	X	X	X	X	X	X	X	
07:44	JC76508-1	1	X	X	X	X	X	X	X	
07:49	MA45520-CCV17	1	X	X	X	X	X	X	X	
07:54	MA45520-CCB17	1	X	X	X	X	X	X	X	
08:16	MP9755-S1	5	X		X	X	X	X	X	
08:21	MP9755-S2	5	X		X	X	X	X	X	
08:27	JC75143-12	5	X		X		X			(a)
08:32	MP9755-SD1	25	X		X	X	X	X	X	
08:37	MP9755-PS1	1								
08:42	ZZZZZZ	1								
08:48	ZZZZZZ	2								
08:53	ZZZZZZ	5								
08:58	ZZZZZZ	2								
09:04	MA45520-CCV18	1	X	X	X	X	X	X	X	
09:09	MA45520-CCB18	1	X	X	X	X	X	X	X	
		Element:	As	Ba	Cd	Cr	Pb	Se	Ag	

(a) Sample used for QC only; not part of login JC76508.

INTERNAL STANDARD SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:29	MA45520-STD1	4311 R	98295 R	4568 R	10879 R
15:34	MA45520-STD2	4073	92404	4469	9907
15:40	ZZZZZZ	4180	93773	4430	10210
15:45	ZZZZZZ	4325	97871	4550	10885
15:50	MA45520-ICV1	4194	94621	4502	10222
15:56	MA45520-ICB1	4355	98007	4491	10904
16:01	MA45520-CCV1	4201	94394	4411	10225
16:06	MA45520-CCB1	4360	97572	4489	10978
16:12	MA45520-CRID1	4339	97662	4502	10886
16:17	MA45520-CRI1	4315	97087	4585	10796
16:23	MA45520-ICSA1	3887	87876	4227	9279
16:28	MA45520-ICSAB1	3880	88321	4222	9278
16:33	MA45520-HSTD1	4275	95657	4484	10755
16:39	MA45520-HSTD2	3957	88761	4347	9355
16:44	ZZZZZZ	21785 !	287030 !	4467	49654 !
16:50	ZZZZZZ	21535 !	88258	4260	49160 !
16:55	MA45520-CCV2	4187	94260	4445	10218
17:00	MA45520-CCB2	4324	97227	4577	10868
17:06	ZZZZZZ	4286	96537	4497	10934
17:11	ZZZZZZ	4298	98224	4551	10952
17:17	ZZZZZZ	4345	98513	4545	10928
17:23	MP9814-MB1	4294	98161	4476	10849
17:28	MP9814-B1	4209	95555	4443	10393
17:33	MP9814-S1	4177	95197	4583	9990
17:38	MP9814-S2	4152	95189	4446	9980
17:43	JC76377-1	4197	96349	4502	10309
17:49	MP9814-SD1	4336	98434	4564	10758
17:54	MA45520-CCV3	4230	94492	4519	10293
17:59	MA45520-CCB3	4375	98917	4520	10991
18:05	ZZZZZZ	4353	98956	4632	10422
18:10	ZZZZZZ	4454	100440	4642	10597
18:15	ZZZZZZ	4430	99602	4572	10569
18:21	ZZZZZZ	4431	99281	4602	10803

INTERNAL STANDARD SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:26	ZZZZZZ	4452	99932	4625	10630
18:31	ZZZZZZ	4475	100730	4620	10650
18:37	ZZZZZZ	4509	101090	4684	10641
18:42	ZZZZZZ	4429	99981	4634	10637
18:47	ZZZZZZ	4435	99941	4630	10648
18:53	MA45520-CCV4	4245	95610	4442	10359
18:58	MA45520-CCB4	4390	98390	4490	11032
19:03	ZZZZZZ	4375	98684	4603	10441
19:09	ZZZZZZ	4431	100090	4677	10478
19:14	ZZZZZZ	4459	101230	4701	10592
19:19	ZZZZZZ	4467	101570	4659	10709
19:25	ZZZZZZ	4466	101560	4694	10564
19:30	ZZZZZZ	4500	101760	4755	10594
19:35	ZZZZZZ	4458	102110	4646	10714
19:41	ZZZZZZ	4495	102220	4797	10569
19:46	ZZZZZZ	4456	101260	4665	10559
19:51	MA45520-CCV5	4292	95757	4468	10435
19:58	MA45520-CCB5	4411	99531	4515	11067
20:04	ZZZZZZ	3770	89580	4249	11544
20:09	ZZZZZZ	4449	102220	4679	10592
20:15	ZZZZZZ	4412	99834	4643	10542
20:20	ZZZZZZ	4345	98712	4506	10983
20:25	MP9843-B1	No results reported for the elements associated with this internal standard.			
20:30	MP9843-MB1	No results reported for the elements associated with this internal standard.			
20:36	ZZZZZZ	4350	99547	4599	10158
20:41	ZZZZZZ	4416	100630	4566	10336
20:47	ZZZZZZ	4241	94762	4453	10463
20:52	ZZZZZZ	4359	99343	4492	11003
20:57	MA45520-CCV6	4234	95246	4430	10301
21:02	MA45520-CCB6	4397	99052	4466	11034
21:08	ZZZZZZ	3957	88077	4475	9243
21:13	ZZZZZZ	4189	94347	4423	10327
21:19	ZZZZZZ	4112	94174	4460	9941

INTERNAL STANDARD SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:24	ZZZZZZ	4069	92401	4423	9934
21:30	JC76113-1F	No results reported for the elements associated with this internal standard.			
21:35	ZZZZZZ	4181	93845	4420	10182
21:41	ZZZZZZ	3977	87923	4464	9302
21:46	ZZZZZZ	4127	94954	4478	10175
21:52	ZZZZZZ	4122	93067	4513	9960
21:57	MA45520-CCV7	4230	95380	4400	10308
22:02	MA45520-CCB7	4369	99423	4498	10995
22:08	ZZZZZZ	4072	93405	4441	9955
22:13	ZZZZZZ	3924	89842	4398	9405
22:19	MP9836-MB1	4332	99335	4473	10932
22:25	MP9836-B1	4216	95724	4477	10386
22:30	MP9836-S1	4208	95510	4404	10332
22:35	MP9836-S2	4205	95663	4470	10327
22:40	JC76324-12	4285	98708	4514	10735
22:45	MP9836-SD1	4358	99189	4496	11001
22:51	ZZZZZZ	4267	95809	4373	10619
22:56	MA45520-CCV8	4184	95494	4467	10257
23:01	MA45520-CCB8	4354	99121	4509	11009
23:07	ZZZZZZ	3772	86291	4258	9482
23:12	ZZZZZZ	4135	93443	4500	10170
23:18	ZZZZZZ	4301	97992	4409	10796
23:25	MA45520-ICSA2	3835	87623	4139	9216
23:30	MA45520-ICSAB2	3860	88572	4156	9259
23:35	MA45520-CCV9	4197	95871	4428	10280
23:40	MA45520-CCB9	4381	99082	4552	11070
23:46	ZZZZZZ	4370	99184	4548	11024
23:51	ZZZZZZ	4355	99097	4508	11033
23:57	ZZZZZZ	4340	99002	4453	10979
00:02	ZZZZZZ	4358	98794	4455	11015
00:08	ZZZZZZ	4350	98832	4475	10990
00:14	ZZZZZZ	4357	99060	4484	11049
00:19	ZZZZZZ	4371	95609	4233	10292

INTERNAL STANDARD SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
00:25	ZZZZZZ	3980	91405	4326	9770
00:30	ZZZZZZ	4038	91765	4345	9906
00:36	ZZZZZZ	4336	98469	4514	11015
00:42	ZZZZZZ	4348	99138	4445	11023
00:47	ZZZZZZ	4340	99245	4462	11046
00:53	MA45520-CCV10	4187	96422	4447	10276
00:58	MA45520-CCB10	4366	98736	4419	11058
01:03	MP9793-MB1	4284	97816	4434	10888
01:09	MP9793-B1	4177	95902	4440	10396
01:14	MP9793-B3	4174	95997	4361	10385
01:19	MP9793-S1	4047	93941	4448	9925
01:24	MP9793-S2	4037	94347	4370	9912
01:29	JC76187-1	4074	95322	4400	10215
01:35	MP9793-SD1	4243	98054	4533	10771
01:40	MP9793-S3	4057	94667	4400	9959
01:45	MP9793-S4	4056	94770	4407	9952
01:50	MA45520-CCV11	4211	97552	4512	10404
01:55	MA45520-CCB11	4333	99680	4544	11065
02:01	JC76187-1F	4121	95782	4496	10365
02:06	MP9793-SD2	4261	99226	4575	10881
02:12	ZZZZZZ	4175	95687	4329	10134
02:17	ZZZZZZ	4157	95283	4480	10123
02:23	ZZZZZZ	4143	94655	4459	10140
02:28	ZZZZZZ	4122	94881	4505	10089
02:34	ZZZZZZ	4117	94753	4438	10109
02:40	ZZZZZZ	4137	95251	4493	10198
02:45	ZZZZZZ	4145	94997	4446	10222
02:51	MA45520-CCV12	4188	96656	4417	10398
02:56	MA45520-CCB12	4318	99796	4505	11092
03:01	ZZZZZZ	4163	95302	4458	10280
03:07	ZZZZZZ	4149	94942	4510	10146
03:13	ZZZZZZ	4158	95213	4470	10183
03:18	ZZZZZZ	4133	94827	4553	10143

INTERNAL STANDARD SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
03:24	ZZZZZZ	4192	95746	4501	10309
03:30	ZZZZZZ	4192	95449	4481	10319
03:35	ZZZZZZ	4184	95592	4449	10287
03:41	ZZZZZZ	4130	94777	4533	10169
03:46	ZZZZZZ	4154	95463	4446	10262
03:52	MA45520-CCV13	4179	97366	4387	10411
03:57	MA45520-CCB13	4325	100320	4470	11144
04:03	ZZZZZZ	4158	95726	4441	10258
04:08	ZZZZZZ	4138	95021	4425	10173
04:14	ZZZZZZ	4147	96034	4450	10241
04:19	ZZZZZZ	4167	95195	4445	10288
04:25	MP9842-B1	4194	96365	4439	10559
04:30	MP9842-MB1	4307	100500	4477	11111
04:36	MP9842-S1	3937	93449	4305	9770
04:41	MP9842-S2	3932	93566	4355	9769
04:46	JC76471-9	3972	94134	4444	9971
04:52	MP9842-SD1	4186	98080	4483	10686
04:57	MA45520-CCV14	4171	96982	4434	10396
05:02	MA45520-CCB14	4331	101480	4442	11149
05:08	ZZZZZZ	4095	97656	4436	10249
05:13	ZZZZZZ	4036	95709	4420	10177
05:19	ZZZZZZ	4049	94523	4503	10021
05:24	ZZZZZZ	4145	97406	4471	10394
05:29	ZZZZZZ	4237	99393	4535	10737
05:35	ZZZZZZ	No results reported for the elements associated with this internal standard.			
05:40	ZZZZZZ	No results reported for the elements associated with this internal standard.			
05:46	ZZZZZZ	4008	94124	4470	9886
05:51	ZZZZZZ	4229	100120	4457	10823
05:57	MA45520-CCV15	4138	97299	4486	10379
06:02	MA45520-CCB15	4310	100550	4504	11130
06:07	ZZZZZZ	4039	94812	4432	10151
06:13	ZZZZZZ	4057	96357	4327	10142
06:18	ZZZZZZ	4195	98746	4435	10691

INTERNAL STANDARD SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
Analyst: ND Run ID: MA45520
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
06:23	ZZZZZZ	3899	93341	4419	9821
06:29	ZZZZZZ	4119	97566	4438	10491
06:34	ZZZZZZ	3998	94415	4449	9978
06:39	ZZZZZZ	4177	97957	4530	10686
06:45	ZZZZZZ	4177	98284	4383	10568
06:50	ZZZZZZ	4309	101410	4478	11162
06:56	MA45520-CCV16	4175	96840	4333	10395
07:01	MA45520-CCB16	4315	100450	4473	11105
07:06	ZZZZZZ	4297	99274	4342	10804
07:12	MP9853-MB1	4301	99624	4404	11068
07:17	MP9853-B1	4216	97111	4375	10600
07:22	MP9853-S1	4191	97561	4347	10083
07:28	MP9853-S2	4208	97814	4358	10128
07:33	JC76479-1	4273	99210	4424	10385
07:38	MP9853-SD1	4336	100260	4510	10953
07:44	JC76508-1	4456	102510	4480	10701
07:49	MA45520-CCV17	4209	97409	4398	10471
07:54	MA45520-CCB17	4361	100480	4404	11195
08:16	MP9755-S1	4672	107470	4754	10987
08:21	MP9755-S2	4603	105960	4707	10879
08:27	JC75143-12	4524	104270	4547	11000
08:32	MP9755-SD1	4412	103730	4510	11122
08:37	MP9755-PS1	5031	115560	5266	10639
08:42	ZZZZZZ	4195	99026	4385	10508
08:48	ZZZZZZ	4243	98423	4387	10645
08:53	ZZZZZZ	4405	101080	4444	10970
08:58	ZZZZZZ	4409	100300	4481	10742
09:04	MA45520-CCV18	4208	96424	4359	10402
09:09	MA45520-CCB18	4346	99527	4394	11111

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA45520 Units: ug/l

Time:			15:56		16:06		17:00		17:59	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	8.8	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	1.2	0.400	<3.0	0.100	<3.0	0.00	<3.0	1.00	<3.0
Barium	200	.2	0.200	<200	0.100	<200	0.100	<200	0.400	<200
Beryllium	1.0	.1	anr							
Bismuth	20	1.2								
Boron	100	1.8								
Cadmium	3.0	.1	0.100	<3.0	0.00	<3.0	0.00	<3.0	0.200	<3.0
Calcium	5000	3.2	anr							
Chromium	10	.3	-0.100	<10	0.100	<10	0.00	<10	0.100	<10
Cobalt	50	.3	anr							
Copper	10	1.3	anr							
Iron	100	1.9	anr							
Lead	3.0	1.2	-0.100	<3.0	-0.500	<3.0	-0.300	<3.0	-0.100	<3.0
Lithium	50	.8								
Magnesium	5000	16	anr							
Manganese	15	.1	anr							
Molybdenum	20	.4								
Nickel	10	.3	anr							
Phosphorus	50	1.5								
Potassium	10000	46	anr							
Selenium	10	2	2.10	<10	2.40	<10	0.700	<10	0.200	<10
Silicon	200	1.7								
Silver	10	.4	0.200	<10	0.00	<10	-0.300	<10	0.00	<10
Sodium	10000	9.8	anr							
Strontium	10	.1								
Sulfur	50	3.7	anr							
Thallium	10	2.4	anr							
Tin	10	.9								
Titanium	10	.1								
Tungsten	50	2.1								
Vanadium	50	.2	anr							
Zinc	20	.1	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA45520 Units: ug/l

Time:			15:56		16:06		17:00		17:59	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.2								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA45520 Units: ug/l

Time:			18:58		19:58		21:02		22:02	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	8.8	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	1.2	1.20	<3.0	0.700	<3.0	0.600	<3.0	0.300	<3.0
Barium	200	.2	0.200	<200	0.200	<200	0.100	<200	0.200	<200
Beryllium	1.0	.1	anr							
Bismuth	20	1.2								
Boron	100	1.8								
Cadmium	3.0	.1	0.200	<3.0	0.100	<3.0	0.100	<3.0	0.200	<3.0
Calcium	5000	3.2	anr							
Chromium	10	.3	0.00	<10	0.200	<10	0.100	<10	0.100	<10
Cobalt	50	.3	anr							
Copper	10	1.3	anr							
Iron	100	1.9	anr							
Lead	3.0	1.2	-0.500	<3.0	-0.200	<3.0	0.00	<3.0	0.100	<3.0
Lithium	50	.8								
Magnesium	5000	16	anr							
Manganese	15	.1	anr							
Molybdenum	20	.4								
Nickel	10	.3	anr							
Phosphorus	50	1.5								
Potassium	10000	46	anr							
Selenium	10	2	1.10	<10	-0.400	<10	0.200	<10	0.200	<10
Silicon	200	1.7								
Silver	10	.4	-0.400	<10	0.300	<10	0.400	<10	0.400	<10
Sodium	10000	9.8	anr							
Strontium	10	.1								
Sulfur	50	3.7	anr							
Thallium	10	2.4	anr							
Tin	10	.9								
Titanium	10	.1								
Tungsten	50	2.1								
Vanadium	50	.2	anr							
Zinc	20	.1	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA45520 Units: ug/l

Time:			18:58		19:58		21:02		22:02	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.2								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA45520 Units: ug/l

Time:			23:01		23:40		00:58		01:55	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	8.8	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	1.2	0.900	<3.0	0.500	<3.0	0.300	<3.0	0.700	<3.0
Barium	200	.2	0.200	<200	-0.100	<200	0.100	<200	0.100	<200
Beryllium	1.0	.1	anr							
Bismuth	20	1.2								
Boron	100	1.8								
Cadmium	3.0	.1	0.100	<3.0	0.100	<3.0	0.100	<3.0	0.100	<3.0
Calcium	5000	3.2	anr							
Chromium	10	.3	0.00	<10	-0.100	<10	0.00	<10	0.100	<10
Cobalt	50	.3	anr							
Copper	10	1.3	anr							
Iron	100	1.9	anr							
Lead	3.0	1.2	-0.500	<3.0	0.100	<3.0	0.100	<3.0	0.500	<3.0
Lithium	50	.8								
Magnesium	5000	16	anr							
Manganese	15	.1	anr							
Molybdenum	20	.4								
Nickel	10	.3	anr							
Phosphorus	50	1.5								
Potassium	10000	46	anr							
Selenium	10	2	0.900	<10	0.900	<10	0.500	<10	-0.800	<10
Silicon	200	1.7								
Silver	10	.4	0.100	<10	-0.200	<10	-0.600	<10	-0.800	<10
Sodium	10000	9.8	anr							
Strontium	10	.1								
Sulfur	50	3.7	anr							
Thallium	10	2.4	anr							
Tin	10	.9								
Titanium	10	.1								
Tungsten	50	2.1								
Vanadium	50	.2	anr							
Zinc	20	.1	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA45520 Units: ug/l

Time:			23:01		23:40		00:58		01:55	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.2								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA45520 Units: ug/l

Time:			02:56		03:57		05:02		06:02	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	8.8	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	1.2	0.100	<3.0	0.400	<3.0	0.500	<3.0	0.200	<3.0
Barium	200	.2	0.300	<200	0.00	<200	0.200	<200	0.500	<200
Beryllium	1.0	.1	anr							
Bismuth	20	1.2								
Boron	100	1.8								
Cadmium	3.0	.1	0.100	<3.0	0.00	<3.0	-0.100	<3.0	0.00	<3.0
Calcium	5000	3.2	anr							
Chromium	10	.3	0.100	<10	-0.100	<10	-0.100	<10	0.00	<10
Cobalt	50	.3	anr							
Copper	10	1.3	anr							
Iron	100	1.9	anr							
Lead	3.0	1.2	0.400	<3.0	0.200	<3.0	0.200	<3.0	0.00	<3.0
Lithium	50	.8								
Magnesium	5000	16	anr							
Manganese	15	.1	anr							
Molybdenum	20	.4								
Nickel	10	.3	anr							
Phosphorus	50	1.5								
Potassium	10000	46	anr							
Selenium	10	2	0.600	<10	0.00	<10	0.300	<10	1.30	<10
Silicon	200	1.7								
Silver	10	.4	-1.60	<10	-2.00	<10	-1.60	<10	-2.20	<10
Sodium	10000	9.8	anr							
Strontium	10	.1								
Sulfur	50	3.7	anr							
Thallium	10	2.4	anr							
Tin	10	.9								
Titanium	10	.1								
Tungsten	50	2.1								
Vanadium	50	.2	anr							
Zinc	20	.1	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA45520 Units: ug/l

Time:			02:56		03:57		05:02		06:02	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.2								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA45520 Units: ug/l

Time:			07:01		07:54	
Sample ID:			CCB16		CCB17	
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	8.8	anr			
Antimony	6.0	1	anr			
Arsenic	3.0	1.2	0.600	<3.0	0.400	<3.0
Barium	200	.2	0.400	<200	0.200	<200
Beryllium	1.0	.1	anr			
Bismuth	20	1.2				
Boron	100	1.8				
Cadmium	3.0	.1	0.00	<3.0	0.00	<3.0
Calcium	5000	3.2	anr			
Chromium	10	.3	0.200	<10	0.00	<10
Cobalt	50	.3	anr			
Copper	10	1.3	anr			
Iron	100	1.9	anr			
Lead	3.0	1.2	0.400	<3.0	0.100	<3.0
Lithium	50	.8				
Magnesium	5000	16	anr			
Manganese	15	.1	anr			
Molybdenum	20	.4				
Nickel	10	.3	anr			
Phosphorus	50	1.5				
Potassium	10000	46	anr			
Selenium	10	2	0.900	<10	0.800	<10
Silicon	200	1.7				
Silver	10	.4	-1.80	<10	-1.70	<10
Sodium	10000	9.8	anr			
Strontium	10	.1				
Sulfur	50	3.7	anr			
Thallium	10	2.4	anr			
Tin	10	.9				
Titanium	10	.1				
Tungsten	50	2.1				
Vanadium	50	.2	anr			
Zinc	20	.1	anr			

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA45520 Units: ug/l

Time:			07:01		07:54	
Sample ID:			CCB16		CCB17	
Metal	RL	IDL	raw	final	raw	final
Zirconium	10	.2				

(*) Outside of QC limits
(anr) Analyte not requested

8.2.3
8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		15:50			16:01			16:55	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	1990	99.5	2000	1990	99.5	2000	2000	100.0
Barium	2000	1980	99.0	2000	1970	98.5	2000	1980	99.0
Beryllium	anr								
Bismuth									
Boron									
Cadmium	2000	2010	100.5	2000	2010	100.5	2000	2010	100.5
Calcium	anr								
Chromium	2000	2040	102.0	2000	2050	102.5	2000	2050	102.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2040	102.0	2000	2040	102.0	2000	2060	103.0
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	2000	100.0	2000	2010	100.5	2000	2030	101.5
Silicon									
Silver	250	242	96.8	250	247	98.8	250	247	98.8
Sodium	anr								
Strontium									
Sulfur	anr								
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		15:50			16:01			16:55	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

8.2.4
8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		17:54			18:53			19:51	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	1990	99.5	2000	1990	99.5	2000	1980	99.0
Barium	2000	1970	98.5	2000	1940	97.0	2000	1960	98.0
Beryllium	anr								
Bismuth									
Boron									
Cadmium	2000	2000	100.0	2000	2000	100.0	2000	2000	100.0
Calcium	anr								
Chromium	2000	2050	102.5	2000	2020	101.0	2000	2040	102.0
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2050	102.5	2000	2040	102.0	2000	2040	102.0
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	2010	100.5	2000	2010	100.5	2000	2000	100.0
Silicon									
Silver	250	247	98.8	250	244	97.6	250	246	98.4
Sodium	anr								
Strontium									
Sulfur	anr								
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		17:54			18:53			19:51	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		20:57			21:57			22:56	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	1990	99.5	2000	1990	99.5	2000	2010	100.5
Barium	2000	1960	98.0	2000	1980	99.0	2000	1990	99.5
Beryllium	anr								
Bismuth									
Boron									
Cadmium	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0
Calcium	anr								
Chromium	2000	2030	101.5	2000	2030	101.5	2000	2010	100.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2050	102.5	2000	2040	102.0	2000	2030	101.5
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	2030	101.5	2000	2020	101.0	2000	2040	102.0
Silicon									
Silver	250	246	98.4	250	247	98.8	250	246	98.4
Sodium	anr								
Strontium									
Sulfur	anr								
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		20:57			21:57			22:56	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		23:35			00:53			01:50	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2010	100.5	2000	2030	101.5	2000	2020	101.0
Barium	2000	1980	99.0	2000	1990	99.5	2000	2000	100.0
Beryllium	anr								
Bismuth									
Boron									
Cadmium	2000	2020	101.0	2000	2020	101.0	2000	1990	99.5
Calcium	anr								
Chromium	2000	2000	100.0	2000	2000	100.0	2000	1970	98.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2040	102.0	2000	2060	103.0	2000	2030	101.5
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	2030	101.5	2000	2050	102.5	2000	2040	102.0
Silicon									
Silver	250	244	97.6	250	242	96.8	250	239	95.6
Sodium	anr								
Strontium									
Sulfur	anr								
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		23:35			00:53			01:50	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		02:51			03:52			04:57	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2040	102.0	2000	2060	103.0	2000	2060	103.0
Barium	2000	1970	98.5	2000	1980	99.0	2000	2000	100.0
Beryllium	anr								
Bismuth									
Boron									
Cadmium	2000	1990	99.5	2000	1980	99.0	2000	1980	99.0
Calcium	anr								
Chromium	2000	1970	98.5	2000	1960	98.0	2000	1970	98.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2050	102.5	2000	2050	102.5	2000	2060	103.0
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	2060	103.0	2000	2070	103.5	2000	2080	104.0
Silicon									
Silver	250	238	95.2	250	236	94.4	250	237	94.8
Sodium	anr								
Strontium									
Sulfur	anr								
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		02:51			03:52			04:57	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

8.2.4
8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		05:57			06:56			07:49	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2090	104.5	2000	2060	103.0	2000	2050	102.5
Barium	2000	2020	101.0	2000	2010	100.5	2000	2010	100.5
Beryllium	anr								
Bismuth									
Boron									
Cadmium	2000	1980	99.0	2000	1990	99.5	2000	1980	99.0
Calcium	anr								
Chromium	2000	1950	97.5	2000	1980	99.0	2000	1980	99.0
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2060	103.0	2000	2060	103.0	2000	2050	102.5
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	2100	105.0	2000	2080	104.0	2000	2070	103.5
Silicon									
Silver	250	235	94.0	250	239	95.6	250	238	95.2
Sodium	anr								
Strontium									
Sulfur	anr								
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		05:57			06:56			07:49	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		16:33			16:39	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum						
Antimony	anr					
Arsenic	8000	8000	100.0			
Barium	8000	7980	99.8			
Beryllium	anr					
Bismuth						
Boron						
Cadmium	8000	7920	99.0			
Calcium						
Chromium	8000	8500	106.3			
Cobalt	anr					
Copper	anr					
Iron						
Lead	8000	8280	103.5			
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium						
Selenium	8000	8080	101.0			
Silicon						
Silver	625	566	90.6			
Sodium						
Strontium						
Sulfur	anr					
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					
Zinc	anr					

HIGH STANDARD CHECK SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45520 Units: ug/l

Time:		16:33			16:39	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA45520 Units: ug/l

Time:				16:12		16:17	
Sample ID:	CRI	CRIA	CRID	CRID1		CRI1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	anr			
Antimony	6.0	20	3.0				
Arsenic	8.0	20	3.0	3.00	100.0	9.10	113.8
Barium	200		4.0	4.40	110.0	192	96.0
Beryllium	2.0		1.0	anr			
Bismuth	20						
Boron	100		10				
Cadmium	3.0		1.0	1.20	120.0	3.20	106.7
Calcium	5000	2000	1000	anr			
Chromium	10		2.0	2.30	115.0	10.3	103.0
Cobalt	50		3.0	anr			
Copper	10		2.0				
Iron	100	500					
Lead	3.0	20	2.5			2.50	83.3
Lithium	50						
Magnesium	5000	2000	100	anr			
Manganese	15		3.0	anr			
Molybdenum	20						
Nickel	10		4.0	anr			
Phosphorus	50						
Potassium	5000		2000	anr			
Selenium	10	20	5.0			9.70	97.0
Silicon	200						
Silver	5.0		2.0			5.30	106.0
Sodium	5000		1000	anr			
Strontium	10						
Sulfur	50						
Thallium	10		2.0				
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	anr			
Zinc	20		10	anr			

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA45520 Units: ug/l

Time:				16:12		16:17	
Sample ID:	CRI	CRIA	CRID	CRID1		CRI1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zirconium	10						

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA45520 Units: ug/l

Time:			16:23		16:28		23:25		23:30	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	536000	107.2	522000	104.4	552000	110.4	536000	107.2
Antimony		1000	-1.10		1010	101.0	0.500		1040	104.0
Arsenic		1000	-0.800		1020	102.0	-2.40		1030	103.0
Barium		500	1.60		509	101.8	1.60		516	103.2
Beryllium		500	0.00		508	101.6	-0.100		514	102.8
Bismuth		500	8.00		508	101.6	8.40		521	104.2
Boron		500	-3.80		559	111.8	-5.20		568	113.6
Cadmium		1000	2.10		1010	101.0	1.70		1030	103.0
Calcium	400000	400000	393000	98.3	401000	100.3	392000	98.0	398000	99.5
Chromium		500	0.200		474	94.8	0.400		471	94.2
Cobalt		500	-1.70		477	95.4	-1.10		483	96.6
Copper		500	-0.300		526	105.2	0.00		541	108.2
Iron	200000	200000	203000	101.5	197000	98.5	200000	100.0	195000	97.5
Lead		1000	-1.70		962	96.2	-1.30		970	97.0
Lithium		500	3.20		520	104.0	2.70		541	108.2
Magnesium	500000	500000	529000	105.8	522000	104.4	526000	105.2	517000	103.4
Manganese		500	5.20		500	100.0	4.20		503	100.6
Molybdenum		500	-0.200		484	96.8	-0.700		492	98.4
Nickel		1000	-1.80		961	96.1	-1.40		967	96.7
Phosphorus		500	15.6		504	100.8	15.5		513	102.6
Potassium			-9.50		-12.5		-46.6		-23.7	
Selenium		1000	3.10		994	99.4	-0.700		1010	101.0
Silicon		500	-15.4		479	95.8	-15.4		491	98.2
Silver		1000	2.80		1060	106.0	0.300		1060	106.0
Sodium			5.60		202		269		382	
Strontium		500	1.20		486	97.2	1.30		494	98.8
Sulfur		500	-11.5		491	98.2	20.6		510	102.0
Thallium		1000	-0.400		958	95.8	-3.40		960	96.0
Tin		500	-4.50		452	90.4	-4.80		456	91.2
Titanium		500	3.30		483	96.6	3.30		487	97.4
Tungsten		500	9.30		478	95.6	7.40		477	95.4
Vanadium		500	-2.40		479	95.8	-1.90		481	96.2
Zinc		1000	0.700		942	94.2	1.00		948	94.8

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: SF102418M1.ICP Date Analyzed: 10/24/18 Methods: SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA45520 Units: ug/l

Time:			16:23		16:28		23:25		23:30	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium		500	2.20		466	93.2	2.00		484	96.8

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9853
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 10/24/18

Metal	RL	IDL	MDL	MB raw	final
Aluminum	52	.91	8.3		
Antimony	2.1	.1	.42		
Arsenic	2.1	.12	.29	0.010	<2.1
Barium	21	.021	2	0.031	<21
Beryllium	0.21	.01	.082		
Bismuth	2.1	.12	.54		
Boron	10	.19	1.5		
Cadmium	0.52	.01	.072	0.010	<0.52
Calcium	520	.33	46		
Chromium	1.0	.031	.38	0.19	<1.0
Cobalt	5.2	.031	.29		
Copper	2.6	.13	.87		
Iron	52	.2	20		
Lead	2.1	.12	.42	-0.052	<2.1
Lithium	5.2	.082	.95		
Magnesium	520	1.7	14		
Manganese	1.5	.01	.42		
Molybdenum	2.1	.041	.33		
Nickel	4.1	.031	.36		
Phosphorus	21	.15	3.4		
Potassium	1000	4.7	33		
Selenium	2.1	.21	.67	0.12	<2.1
Silicon	21	.18	11		
Silver	0.52	.041	.18	-0.16	<0.52
Sodium	1000	1	80		
Strontium	5.2	.01	.19		
Sulfur	10	.38	9.7		
Thallium	1.0	.25	.6		
Tin	21	.093	3.9		
Titanium	1.0	.01	.35		
Tungsten	5.2	.22	1.8		
Vanadium	5.2	.021	.2		
Zinc	5.2	.01	2.4		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9853 | Methods: SW846 6010D
Matrix Type: SOLID | Units: mg/kg

Prep Date: 10/24/18

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.1	.021	.24		

Associated samples MP9853: JC76508-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9853
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 10/24/18

Metal	JC76479-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr				
Antimony	anr				
Arsenic	1.5	244	248	97.6	75-125
Barium	30.0	279	248	100.2	75-125
Beryllium	anr				
Bismuth					
Boron					
Cadmium	0.050	236	248	95.0	75-125
Calcium	anr				
Chromium	8.6	242	248	93.9	75-125
Cobalt	anr				
Copper	anr				
Iron	anr				
Lead	5.3	251	248	98.9	75-125
Lithium					
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	anr				
Phosphorus					
Potassium	anr				
Selenium	0.0	238	248	95.8	75-125
Silicon					
Silver	0.0	28.9	31.1	93.0	75-125
Sodium	anr				
Strontium					
Sulfur					
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium	anr				
Zinc	anr				

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9853 | Methods: SW846 6010D
Matrix Type: SOLID | Units: mg/kg

Prep Date: 10/24/18

Metal	JC76479-1 Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP9853: JC76508-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9853
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 10/24/18

Metal	JC76479-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	1.5	227	246	91.7	7.2	20
Barium	30.0	266	246	95.9	4.8	20
Beryllium	anr					
Bismuth						
Boron						
Cadmium	0.050	219	246	89.0	7.5	20
Calcium	anr					
Chromium	8.6	225	246	88.0	7.3	20
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	5.3	233	246	92.6	7.4	20
Lithium						
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium	anr					
Selenium	0.0	220	246	89.4	7.9	20
Silicon						
Silver	0.0	26.7	30.8	86.8	7.9	20
Sodium	anr					
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					
Zinc	anr					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9853 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 10/24/18

Metal	JC76479-1 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP9853: JC76508-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9853
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 10/24/18

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	185	198	93.4	80-120
Barium	183	198	92.4	80-120
Beryllium	anr			
Bismuth				
Boron				
Cadmium	179	198	90.4	80-120
Calcium	anr			
Chromium	181	198	91.4	80-120
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	185	198	93.4	80-120
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium	anr			
Selenium	182	198	91.9	80-120
Silicon				
Silver	21.9	24.8	88.5	80-120
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	anr			

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9853
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 10/24/18

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP9853: JC76508-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9853
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/24/18

Metal	JC76479-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	11.8	13.1	11.0 (a)	0-10
Barium	241	251	4.0	0-10
Beryllium	anr			
Bismuth				
Boron				
Cadmium	0.400	0.00	100.0(a)	0-10
Calcium	anr			
Chromium	69.2	74.0	6.9	0-10
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	43.0	47.2	9.8	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	anr			

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9853
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/24/18

Metal	JC76479-1 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP9853: JC76508-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9868 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 10/25/18

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0028	.015	0.012	<0.033

Associated samples MP9868: JC76508-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.4.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9868 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 10/25/18

Metal	JC76495-1 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.012	0.39	0.391	96.6	80-120

Associated samples MP9868: JC76508-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9868 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 10/25/18

Metal	JC76495-1 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.012	0.36	0.381	91.3	8.0	20

Associated samples MP9868: JC76508-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP9868
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 10/25/18

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.32	0.333	96.1	80-120

Associated samples MP9868: JC76508-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.4.3

8

Instrument Detection Limits

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Instrument ID: LEEMANHG8 **Effective Date:** 08/15/18

Analyte	IDL ug/l
Mercury	.0166

The above applies to the following instrument runs:
MA45511

Instrument Detection Limits

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Instrument ID: SSTRACE6 **Effective Date:** 07/11/18

Analyte	IDL ug/l
Aluminum	8.8
Antimony	1
Arsenic	1.2
Barium	.2
Beryllium	.1
Bismuth	1.2
Boron	1.8
Cadmium	.1
Calcium	3.2
Chromium	.3
Cobalt	.3
Copper	1.3
Iron	1.9
Lead	1.2
Lithium	.8
Magnesium	16.2
Manganese	.1
Molybdenum	.4
Nickel	.3
Phosphorus	1.5
Potassium	45.9
Selenium	2
Silicon	1.7
Silver	.4
Sodium	9.8
Sulfur	3.7
Strontium	.1
Thallium	2.4
Tin	.9
Titanium	.1
Tungsten	2.1
Vanadium	.2
Zinc	.1
Zirconium	.2

The above applies to the following instrument runs:
MA45520

Instrument Linear Ranges

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Instrument ID: LEEMANHG8 **Effective Date:** 03/10/17

Analyte	Linear Range ug/l
Mercury	5

The above applies to the following instrument runs:
MA45511

Instrument Linear Ranges

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Instrument ID: SSTRACE6 **Effective Date:** 07/16/18

Analyte	Linear Range ug/l
Aluminum	300000
Antimony	8000
Arsenic	8000
Barium	8000
Beryllium	8000
Bismuth	8000
Boron	8000
Cadmium	8000
Calcium	200000
Chromium	8000
Cobalt	8000
Copper	8000
Iron	200000
Lead	8000
Lithium	8000
Magnesium	300000
Manganese	8000
Molybdenum	8000
Nickel	8000
Palladium	8000
Phosphorus	8000
Potassium	200000
Selenium	8000
Silicon	25000
Silver	625
Sodium	200000
Sulfur	100000
Strontium	8000
Thallium	8000
Tin	8000
Titanium	8000
Tungsten	8000
Vanadium	8000
Zinc	8000
Zirconium	8000

The above applies to the following instrument runs:
MA45520

Metals Analysis

Raw Data

MA45511

Method: ACCUTEST Operator: Admin Date of Analysis: 25 Oct 2018 09:29:16

Sample ID	Date	Type	Units	Conc.	µ Abs.	Wt.	Vol.
STDA - 1	25 Oct 2018 09:29:30	Std	ug/l	-	133	1.000	1.000
STDB - 1	25 Oct 2018 09:30:48	Std	ug/l	-	1920	1.000	1.000
STDC - 1	25 Oct 2018 09:32:06	Std	ug/l	-	4437	1.000	1.000
STDD - 1	25 Oct 2018 09:33:30	Std	ug/l	-	9465	1.000	1.000
STDE - 1	25 Oct 2018 09:34:59	Std	ug/l	-	24217	1.000	1.000
STDF - 1	25 Oct 2018 09:36:35	Std	ug/l	-	47085	1.000	1.000
ICV - 1	25 Oct 2018 09:40:32	CK STND	ug/l	102.4% 3.0723	29094	1.000	1.000
ICB - 1	25 Oct 2018 09:41:48	CK STND	ug/l	-0.0258	-199	1.000	1.000
CCV - 1	25 Oct 2018 09:43:31	CK STND	ug/l	100.4% 2.5106	23783	1.000	1.000
CCB - 1	25 Oct 2018 09:44:49	CK STND	ug/l	-0.0224	-167	1.000	1.000
CRI - 1	25 Oct 2018 09:46:32	CK STND	ug/l	102.4% 0.2049	1982	1.000	1.000
MP9868-MB1 - 1	25 Oct 2018 09:58:10	SMPL	ug/l	0.0699	706	1.000	1.000
MP9868-B1 - 1	25 Oct 2018 09:59:26	SMPL	ug/l	1.9215	18213	1.000	1.000
MP9868-S1 - 1	25 Oct 2018 10:00:45	SMPL	ug/l	1.9877	18839	1.000	1.000
MP9868-S2 - 1	25 Oct 2018 10:02:27	SMPL	ug/l	1.8778	17800	1.000	1.000
JC76495-1 - 1	25 Oct 2018 10:04:12	SMPL	ug/l	0.0615	626	1.000	1.000
CCV - 1	25 Oct 2018 10:05:59	CK STND	ug/l	100.1% 2.5037	23718	1.000	1.000
CCB - 1	25 Oct 2018 10:07:19	CK STND	ug/l	-0.0311	-249	1.000	1.000
JC76435-1 - 1	25 Oct 2018 10:09:01	SMPL	ug/l	0.1215	1194	1.000	1.000
JC76435-3 - 1	25 Oct 2018 10:10:18	SMPL	ug/l	0.1370	1340	1.000	1.000
JC76435-5 - 1	25 Oct 2018 10:11:39	SMPL	ug/l	0.0787	789	1.000	1.000
JC76435-7 - 1	25 Oct 2018 10:13:00	SMPL	ug/l	0.1154	1136	1.000	1.000
JC76435-9 - 1	25 Oct 2018 10:14:20	SMPL	ug/l	0.1229	1207	1.000	1.000
JC76435-11 - 1	25 Oct 2018 10:15:42	SMPL	ug/l	0.0993	984	1.000	1.000
JC76435-13 - 1	25 Oct 2018 10:17:03	SMPL	ug/l	1.6851	15978	1.000	1.000
JC76435-15 - 1	25 Oct 2018 10:18:24	SMPL	ug/l	0.0792	794	1.000	1.000
CCV - 1	25 Oct 2018 10:20:08	CK STND	ug/l	98.9% 2.4725	23423	1.000	1.000
CCB - 1	25 Oct 2018 10:21:28	CK STND	ug/l	-0.0301	-240	1.000	1.000
JC76435-17 - 1	25 Oct 2018 10:23:10	SMPL	ug/l	0.1065	1052	1.000	1.000
JC76435-19 - 1	25 Oct 2018 10:24:27	SMPL	ug/l	0.0753	757	1.000	1.000
JC76435-21 - 1	25 Oct 2018 10:25:46	SMPL	ug/l	0.1097	1082	1.000	1.000
JC76435-23 - 1	25 Oct 2018 10:27:06	SMPL	ug/l	0.2246	2169	1.000	1.000
JC76495-4 - 1	25 Oct 2018 10:28:25	SMPL	ug/l	0.0952	945	1.000	1.000
JC76495-5 - 1	25 Oct 2018 10:29:51	SMPL	ug/l	0.3723	3565	1.000	1.000
JC76496-1 - 1	25 Oct 2018 10:31:11	SMPL	ug/l	8.0321	75990	1.000	1.000
JC76500-5 - 1	25 Oct 2018 10:32:42	SMPL	ug/l	0.0585	598	1.000	1.000
JC76508-1 - 1	25 Oct 2018 10:34:44	SMPL	ug/l	0.0630	641	1.000	1.000
CCV - 1	25 Oct 2018 10:36:05	CK STND	ug/l	98.2% 2.4540	23248	1.000	1.000
CCB - 1	25 Oct 2018 10:37:25	CK STND	ug/l	-0.0245	-187	1.000	1.000
RINNSECONF - 1	25 Oct 2018 10:39:07	SMPL	ug/l	0.1726	1677	1.000	1.000
MP9849-B1 - 1	25 Oct 2018 10:40:27	SMPL	ug/l	2.0738	19653	1.000	1.000
MP9849-S1 - 1	25 Oct 2018 10:41:54	SMPL	ug/l	19.1218	180844	1.000	1.000
MP9849-S2 - 1	25 Oct 2018 10:43:36	SMPL	ug/l	16.5681	156699	1.000	1.000
JC76176-1 - 1	25 Oct 2018 10:45:50	SMPL	ug/l	14.0283	132685	1.000	1.000
JC76176-2 - 1	25 Oct 2018 10:48:05	SMPL	ug/l	19.4279	183739	1.000	1.000
JC76176-3 - 1	25 Oct 2018 10:50:17	SMPL	ug/l	22.4867	212660	1.000	1.000
JC76176-4 - 1	25 Oct 2018 10:52:34	SMPL	ug/l	7.9889	75581	1.000	1.000
JC76176-5 - 1	25 Oct 2018 10:54:52	SMPL	ug/l	19.9576	188747	1.000	1.000
CCV - 1	25 Oct 2018 10:56:57	CK STND	ug/l	95.0% 2.3752	22503	1.000	1.000
CCB - 1	25 Oct 2018 10:59:13	CK STND	ug/l	-0.0307	-245	1.000	1.000
JC72073-1R - 1	25 Oct 2018 11:06:57	SMPL	ug/l	0.1044	1032	1.000	1.000
JC72073-2R - 1	25 Oct 2018 11:08:14	SMPL	ug/l	0.0940	934	1.000	1.000
SAMPLECONF - 1	25 Oct 2018 11:09:35	SMPL	ug/l	-0.0388	-322	1.000	1.000
SAMPLECONF - 1	25 Oct 2018 11:10:56	SMPL	ug/l	-0.0048	0	1.000	1.000
JC72073-3R - 1	25 Oct 2018 11:12:36	SMPL	ug/l	0.1265	1241	1.000	1.000
JC72073-4R - 1	25 Oct 2018 11:13:54	SMPL	ug/l	0.0714	720	1.000	1.000
CCV - 1	25 Oct 2018 11:15:15	CK STND	ug/l	97.5% 2.4372	23089	1.000	1.000
CCB - 1	25 Oct 2018 11:16:35	CK STND	ug/l	-0.0237	-179	1.000	1.000
JC76170-1 - 1	25 Oct 2018 11:18:19	SMPL	ug/l	0.0720	726	1.000	1.000
JC76170-2 - 1	25 Oct 2018 11:19:39	SMPL	ug/l	0.0331	358	1.000	1.000
JC76170-3 - 1	25 Oct 2018 11:20:58	SMPL	ug/l	0.0109	148	1.000	1.000
JC76217-3 - 1	25 Oct 2018 11:22:17	SMPL	ug/l	7.9023	74762	1.000	1.000
JC76299-1 - 1	25 Oct 2018 11:23:35	SMPL	ug/l	0.6879	6549	1.000	1.000
JC76299-2 - 1	25 Oct 2018 11:25:38	SMPL	ug/l	0.2429	2342	1.000	1.000
JC76299-3 - 1	25 Oct 2018 11:27:14	SMPL	ug/l	0.1656	1611	1.000	1.000
JC76299-4 - 1	25 Oct 2018 11:28:41	SMPL	ug/l	0.6760	6437	1.000	1.000
CCV - 1	25 Oct 2018 11:30:05	CK STND	ug/l	102.3% 2.5579	24230	1.000	1.000
CCB - 1	25 Oct 2018 11:31:40	CK STND	ug/l	0.0050	92	1.000	1.000
JC76299-5 - 1	25 Oct 2018 11:33:23	SMPL	ug/l	0.7316	6962	1.000	1.000

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Sample ID	Date	Type	Units	Conc.	µ Abs.	Wt.	Vol.
JC76299-6 - 1	25 Oct 2018 11:34:42	SMPL	ug/l	0.3456	3313	1.000	1.000
JC76500-5CONF - 1	25 Oct 2018 11:36:17	SMPL	ug/l	0.1061	1048	1.000	1.000
JC76496-1 - 1	25 Oct 2018 11:37:46	SMPL	ug/l	8.7122	16520	1.000	5.000
MP9849-S1 - 1	25 Oct 2018 11:39:07	SMPL	ug/l	21.5153	20388	1.000	10.000
MP9849-S2 - 1	25 Oct 2018 11:40:50	SMPL	ug/l	18.6312	17661	1.000	10.000
JC76176-1 - 1	25 Oct 2018 11:42:33	SMPL	ug/l	15.2468	14461	1.000	10.000
JC76176-2 - 1	25 Oct 2018 11:44:14	SMPL	ug/l	21.7279	20589	1.000	10.000
CCV - 1	25 Oct 2018 11:45:54	CK STND	ug/l	101.9% 2.5478	24135	1.000	1.000
CCB - 1	25 Oct 2018 11:47:38	CK STND	ug/l	-0.0009	36	1.000	1.000
JC76176-3 - 1	25 Oct 2018 11:49:21	SMPL	ug/l	26.1086	24731	1.000	10.000
JC76176-4 - 1	25 Oct 2018 11:50:40	SMPL	ug/l	8.6334	16371	1.000	5.000
JC76176-5 - 1	25 Oct 2018 11:52:28	SMPL	ug/l	23.4381	22206	1.000	10.000
MP9861-MB1 - 1	25 Oct 2018 11:54:10	SMPL	ug/l	-0.0098	-48	1.000	1.000
MP9861-B1 - 1	25 Oct 2018 11:55:58	SMPL	ug/l	1.8525	17561	1.000	1.000
MP9861-S1 - 1	25 Oct 2018 11:57:17	SMPL	ug/l	2.6910	25489	1.000	1.000
MP9861-S2 - 1	25 Oct 2018 11:59:01	SMPL	ug/l	2.5562	24214	1.000	1.000
JC76462-27 - 1	25 Oct 2018 12:00:54	SMPL	ug/l	0.7595	7226	1.000	1.000
CCV - 1	25 Oct 2018 12:02:45	CK STND	ug/l	100.9% 2.5218	23889	1.000	1.000
CCB - 1	25 Oct 2018 12:04:23	CK STND	ug/l	-0.0012	34	1.000	1.000
JC76072-1 - 1	25 Oct 2018 12:06:06	SMPL	ug/l	1.9931	18890	1.000	1.000
JC76072-2 - 1	25 Oct 2018 12:07:27	SMPL	ug/l	1.3930	13216	1.000	1.000
JC76073-1 - 1	25 Oct 2018 12:09:12	SMPL	ug/l	0.3456	3313	1.000	1.000
JC76073-3 - 1	25 Oct 2018 12:10:52	SMPL	ug/l	0.2350	2267	1.000	1.000
JC76073-4 - 1	25 Oct 2018 12:12:22	SMPL	ug/l	0.3890	3723	1.000	1.000
JC76217-3 - 1	25 Oct 2018 12:13:48	SMPL	ug/l	8.1004	15363	1.000	5.000
JC76117-1 - 1	25 Oct 2018 12:15:16	SMPL	ug/l	0.0911	906	1.000	1.000
JC76117-4 - 1	25 Oct 2018 12:16:57	SMPL	ug/l	0.0626	637	1.000	1.000
CCV - 1	25 Oct 2018 12:18:18	CK STND	ug/l	101.9% 2.5467	24124	1.000	1.000
CCB - 1	25 Oct 2018 12:19:38	CK STND	ug/l	0.0039	82	1.000	1.000
JC76117-6 - 1	25 Oct 2018 12:21:21	SMPL	ug/l	1.3580	12885	1.000	1.000
JC76117-8 - 1	25 Oct 2018 12:22:40	SMPL	ug/l	0.2011	1946	1.000	1.000
JC76117-10 - 1	25 Oct 2018 12:24:23	SMPL	ug/l	6.5795	62255	1.000	1.000
JC76117-12 - 1	25 Oct 2018 12:25:48	SMPL	ug/l	0.2569	2474	1.000	1.000
JC76280-1 - 1	25 Oct 2018 12:27:48	SMPL	ug/l	0.5715	5449	1.000	1.000
JC76280-2 - 1	25 Oct 2018 12:29:17	SMPL	ug/l	0.0313	341	1.000	1.000
JC76280-3 - 1	25 Oct 2018 12:30:50	SMPL	ug/l	0.0749	753	1.000	1.000
JC76280-4 - 1	25 Oct 2018 12:32:11	SMPL	ug/l	0.0594	607	1.000	1.000
CCV - 1	25 Oct 2018 12:33:30	CK STND	ug/l	102.2% 2.5545	24198	1.000	1.000
CCB - 1	25 Oct 2018 12:34:50	CK STND	ug/l	0.0034	77	1.000	1.000
JC76280-5 - 1	25 Oct 2018 12:36:33	SMPL	ug/l	0.0681	689	1.000	1.000
JC76280-6 - 1	25 Oct 2018 12:37:53	SMPL	ug/l	0.0911	906	1.000	1.000
JC76371-1 - 1	25 Oct 2018 12:39:13	SMPL	ug/l	1.2254	11631	1.000	1.000
JC76462-28 - 1	25 Oct 2018 12:40:33	SMPL	ug/l	0.3906	3738	1.000	1.000
MP9893-MB1 - 1	25 Oct 2018 12:42:16	SMPL	ug/l	-0.0179	-124	1.000	1.000
MP9893-B1 - 1	25 Oct 2018 12:43:46	SMPL	ug/l	1.9981	18937	1.000	1.000
MP9893-S1 - 1	25 Oct 2018 12:45:06	SMPL	ug/l	1.9822	18787	1.000	1.000
MP9893-S2 - 1	25 Oct 2018 12:46:49	SMPL	ug/l	1.9596	18573	1.000	1.000
CCV - 1	25 Oct 2018 12:48:33	CK STND	ug/l	102.3% 2.5584	24235	1.000	1.000
CCB - 1	25 Oct 2018 12:50:20	CK STND	ug/l	-0.0032	15	1.000	1.000
JC76151-1R - 1	25 Oct 2018 12:52:03	SMPL	ug/l	0.0112	151	1.000	1.000
JC76151-2R - 1	25 Oct 2018 12:53:23	SMPL	ug/l	0.2560	2465	1.000	1.000
JC76151-3R - 1	25 Oct 2018 12:54:42	SMPL	ug/l	-0.0226	-169	1.000	1.000
JC76117-10 - 1	25 Oct 2018 12:57:48	SMPL	ug/l	6.5317	30924	1.000	2.000
MP9847-MB1 - 1	25 Oct 2018 12:59:05	SMPL	ug/l	-0.0240	-182	1.000	1.000
MP9847-B1 - 1	25 Oct 2018 13:00:58	SMPL	ug/l	2.0665	19584	1.000	1.000
SAMPLECONF - 1	25 Oct 2018 13:02:18	SMPL	ug/l	5.1072	48334	1.000	1.000
SAMPLECONF - 1	25 Oct 2018 13:04:00	SMPL	ug/l	10.0871	95420	1.000	1.000
CCV - 1	25 Oct 2018 13:05:57	CK STND	ug/l	100.8% 2.5211	23882	1.000	1.000
CCB - 1	25 Oct 2018 13:08:03	CK STND	ug/l	-0.0059	-11	1.000	1.000
JC75993-2 - 1	25 Oct 2018 13:09:45	SMPL	ug/l	2.4847	23538	1.000	1.000
JC75993-4 - 1	25 Oct 2018 13:11:05	SMPL	ug/l	0.0628	639	1.000	1.000
JC75995-1 - 1	25 Oct 2018 13:12:55	SMPL	ug/l	0.1417	1385	1.000	1.000
JC75995-2 - 1	25 Oct 2018 13:14:15	SMPL	ug/l	0.0736	741	1.000	1.000
JC75995-3 - 1	25 Oct 2018 13:15:37	SMPL	ug/l	0.0586	599	1.000	1.000
JC75995-4 - 1	25 Oct 2018 13:16:58	SMPL	ug/l	0.3447	3304	1.000	1.000
JC76005-1 - 1	25 Oct 2018 13:18:19	SMPL	ug/l	0.7100	6758	1.000	1.000
JC76015-1 - 1	25 Oct 2018 13:19:48	SMPL	ug/l	0.0277	307	1.000	1.000
CCV - 1	25 Oct 2018 13:21:22	CK STND	ug/l	100.7% 2.5166	23840	1.000	1.000
CCB - 1	25 Oct 2018 13:22:41	CK STND	ug/l	-0.0034	13	1.000	1.000

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JC76035-1 - 1	25 Oct 2018 13:24:22	SMPL	ug/l	0.7782	7403	1.000	1.000
JC76035-2 - 1	25 Oct 2018 13:25:42	SMPL	ug/l	10.4525	98875	1.000	1.000
JC76037-2 - 1	25 Oct 2018 13:27:19	SMPL	ug/l	2.8532	27022	1.000	1.000
JC76037-4 - 1	25 Oct 2018 13:29:34	SMPL	ug/l	0.6145	5855	1.000	1.000
JC76037-6 - 1	25 Oct 2018 13:31:25	SMPL	ug/l	0.3649	3495	1.000	1.000
JC76037-8 - 1	25 Oct 2018 13:33:00	SMPL	ug/l	0.2634	2535	1.000	1.000
JC76037-10 - 1	25 Oct 2018 13:34:28	SMPL	ug/l	0.9414	8946	1.000	1.000
JC76049-1 - 1	25 Oct 2018 13:35:55	SMPL	ug/l	0.1983	1920	1.000	1.000
CCV - 1	25 Oct 2018 13:37:34	CK STND	ug/l	104.5% 2.6117	24739	1.000	1.000
CCB - 1	25 Oct 2018 13:39:40	CK STND	ug/l	(H)0.2472	2382	1.000	1.000
CCB - 1	25 Oct 2018 13:42:42	CK STND	ug/l	0.0115	154	1.000	1.000
CCV - 1	25 Oct 2018 13:45:28	CK STND	ug/l	104.2% 2.6051	24677	1.000	1.000
CCB - 1	25 Oct 2018 13:46:48	CK STND	ug/l	0.0917	912	1.000	1.000
JC76049-2 - 1	25 Oct 2018 13:48:29	SMPL	ug/l	0.3164	3037	1.000	1.000
JC76063-1 - 1	25 Oct 2018 13:49:53	SMPL	ug/l	0.2731	2627	1.000	1.000
JC76063-2 - 1	25 Oct 2018 13:51:33	SMPL	ug/l	0.3177	3049	1.000	1.000
JC76063-3 - 1	25 Oct 2018 13:52:53	SMPL	ug/l	0.0743	747	1.000	1.000
MP9849-MB1 - 1	25 Oct 2018 13:54:25	SMPL	ug/l	0.0582	595	1.000	1.000
MP9847-S1 - 1	25 Oct 2018 13:55:44	SMPL	ug/l	4.6670	44172	1.000	1.000
MP9847-S2 - 1	25 Oct 2018 13:57:07	SMPL	ug/l	4.5104	42691	1.000	1.000
CCV - 1	25 Oct 2018 13:59:04	CK STND	ug/l	101.5% 2.5377	24039	1.000	1.000
CCB - 1	25 Oct 2018 14:00:58	CK STND	ug/l	0.0580	593	1.000	1.000
MP9848-MB1 - 1	25 Oct 2018 14:02:41	SMPL	ug/l	0.0272	302	1.000	1.000
MP9848-B1 - 1	25 Oct 2018 14:04:02	SMPL	ug/l	2.1491	20365	1.000	1.000
MP9848-S1 - 1	25 Oct 2018 14:05:22	SMPL	ug/l	2.6608	25203	1.000	1.000
MP9848-S2 - 1	25 Oct 2018 14:07:09	SMPL	ug/l	2.9787	28209	1.000	1.000
JC76202-4 - 1	25 Oct 2018 14:08:59	SMPL	ug/l	0.9615	9136	1.000	1.000
JC76202-2 - 1	25 Oct 2018 14:10:47		ug/l	HIGH	359426	1.000	1.000
JC76122-1 - 1	25 Oct 2018 14:12:14	SMPL	ug/l	0.0837	836	1.000	1.000
JC76122-2 - 1	25 Oct 2018 14:14:30	SMPL	ug/l	0.5188	4950	1.000	1.000
CCV - 1	25 Oct 2018 14:15:53	CK STND	ug/l	102.2% 2.5551	24204	1.000	1.000
CCB - 1	25 Oct 2018 14:17:28	CK STND	ug/l	0.0344	370	1.000	1.000
JC76122-3 - 1	25 Oct 2018 14:19:11	SMPL	ug/l	0.1714	1666	1.000	1.000
JC76122-4 - 1	25 Oct 2018 14:20:32	SMPL	ug/l	0.0033	76	1.000	1.000
JC76123-1 - 1	25 Oct 2018 14:21:58	SMPL	ug/l	0.7644	7272	1.000	1.000
JC76123-2 - 1	25 Oct 2018 14:23:19	SMPL	ug/l	0.4267	4079	1.000	1.000
JC76123-3 - 1	25 Oct 2018 14:24:59	SMPL	ug/l	0.0341	367	1.000	1.000
JC76123-4 - 1	25 Oct 2018 14:26:33	SMPL	ug/l	0.0202	236	1.000	1.000
JC76123-5 - 1	25 Oct 2018 14:27:54	SMPL	ug/l	-0.0379	-313	1.000	1.000
JC76123-6 - 1	25 Oct 2018 14:29:15	SMPL	ug/l	0.7309	6956	1.000	1.000
CCV - 1	25 Oct 2018 14:30:33	CK STND	ug/l	102.7% 2.5687	24332	1.000	1.000
CCB - 1	25 Oct 2018 14:32:11	CK STND	ug/l	0.0099	139	1.000	1.000
JC76138-1 - 1	25 Oct 2018 14:33:55	SMPL	ug/l	0.2551	2457	1.000	1.000
JC76138-2 - 1	25 Oct 2018 14:35:16	SMPL	ug/l	0.4131	3951	1.000	1.000
JC76138-3 - 1	25 Oct 2018 14:36:47	SMPL	ug/l	-0.0498	-426	1.000	1.000
JC76138-4 - 1	25 Oct 2018 14:38:23	SMPL	ug/l	0.1273	1249	1.000	1.000
JC76138-13 - 1	25 Oct 2018 14:39:43	SMPL	ug/l	0.9708	9224	1.000	1.000
JC76138-14 - 1	25 Oct 2018 14:41:07	SMPL	ug/l	0.3615	3463	1.000	1.000
JC76138-15 - 1	25 Oct 2018 14:42:47	SMPL	ug/l	0.1147	1129	1.000	1.000
JC76138-16 - 1	25 Oct 2018 14:44:21	SMPL	ug/l	0.0261	292	1.000	1.000
CCV - 1	25 Oct 2018 14:45:43	CK STND	ug/l	102.2% 2.5540	24193	1.000	1.000
CCB - 1	25 Oct 2018 14:47:03	CK STND	ug/l	0.0200	234	1.000	1.000
JC76299-1CONF - 1	25 Oct 2018 14:48:48	SMPL	ug/l	0.7887	7502	1.000	1.000
JC76117-12CONF - 1	25 Oct 2018 14:50:09	SMPL	ug/l	0.2930	2815	1.000	1.000
SAMPLECONF - 1	25 Oct 2018 14:51:48	SMPL	ug/l	14.4001	27276	1.000	5.000
JC76035-2 - 1	25 Oct 2018 14:53:19	SMPL	ug/l	11.4033	21609	1.000	5.000
JC76202-2 - 1	25 Oct 2018 14:55:09	SMPL	ug/l	82.7487	39165	1.000	20.000
RINSECONF - 1	25 Oct 2018 14:57:01	SMPL	ug/l	0.0154	191	1.000	1.000
JC76122-1CONF - 1	25 Oct 2018 14:58:52	SMPL	ug/l	0.0975	967	1.000	1.000
CCV - 1	25 Oct 2018 15:00:13	CK STND	ug/l	102.5% 2.5620	24269	1.000	1.000
CCB - 1	25 Oct 2018 15:01:34	CK STND	ug/l	0.0235	267	1.000	1.000
JC76035-1 - 1	25 Oct 2018 15:03:18	SMPL	ug/l	0.7897	7512	1.000	1.000
JC76037-4 - 1	25 Oct 2018 15:04:39	SMPL	ug/l	0.6580	6266	1.000	1.000
JC76037-6 - 1	25 Oct 2018 15:06:16	SMPL	ug/l	0.3947	3777	1.000	1.000
JC76037-8 - 1	25 Oct 2018 15:07:53	SMPL	ug/l	0.2642	2543	1.000	1.000
JC76037-10 - 1	25 Oct 2018 15:09:23	SMPL	ug/l	0.9587	9110	1.000	1.000
JC76049-1 - 1	25 Oct 2018 15:10:51	SMPL	ug/l	0.2057	1990	1.000	1.000
SAMPLECONF - 1	25 Oct 2018 15:12:30	SMPL	ug/l	-0.3915	-3657	1.000	1.000
SAMPLECONF - 1	25 Oct 2018 15:15:13	SMPL	ug/l	-0.0048	0	1.000	1.000

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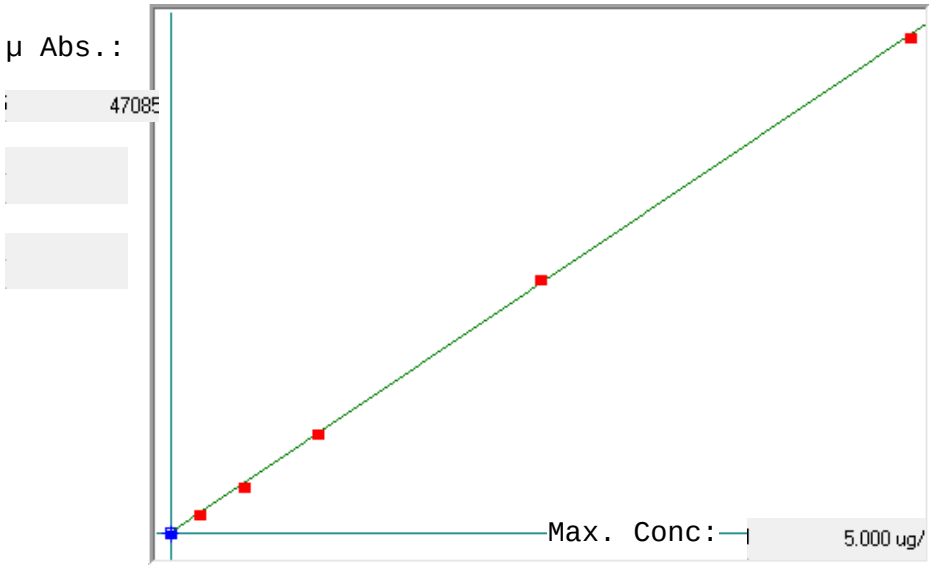
MP9850-MB1 - 1	25 Oct 2018 15:21:54	SMPL	ug/l	0.0377	401	1.000	1.000
MP9850-B1 - 1	25 Oct 2018 15:23:20	SMPL	ug/l	2.1516	20389	1.000	1.000
CCV - 1	25 Oct 2018 15:24:51	CK STND	ug/l	102.0% 2.5489	24145	1.000	1.000
CCB - 1	25 Oct 2018 15:26:37	CK STND	ug/l	0.0206	240	1.000	1.000
SAMPLECONF - 1	25 Oct 2018 15:28:23	SMPL	ug/l	21.6365	204621	1.000	1.000
MP9850-S2 - 1	25 Oct 2018 15:29:44	SMPL	ug/l	8.7242	82534	1.000	1.000
JC76177-1 - 1	25 Oct 2018 15:31:59	SMPL	ug/l	6.9645	65895	1.000	1.000
JC76138-17 - 1	25 Oct 2018 15:34:01	SMPL	ug/l	1.1988	11380	1.000	1.000
JC76138-18 - 1	25 Oct 2018 15:36:04	SMPL	ug/l	0.2336	2254	1.000	1.000
JC76138-19 - 1	25 Oct 2018 15:37:52	SMPL	ug/l	0.5167	4930	1.000	1.000
JC76138-20 - 1	25 Oct 2018 15:39:22	SMPL	ug/l	0.2310	2229	1.000	1.000
JC76138-21 - 1	25 Oct 2018 15:40:58	SMPL	ug/l	0.2717	2614	1.000	1.000
JC76138-22 - 1	25 Oct 2018 15:42:25	SMPL	ug/l	0.2544	2450	1.000	1.000
CCV - 1	25 Oct 2018 15:43:57	CK STND	ug/l	102.2% 2.5540	24193	1.000	1.000
CCB - 1	25 Oct 2018 15:45:29	CK STND	ug/l	0.0131	169	1.000	1.000
JC76138-23 - 1	25 Oct 2018 15:47:12	SMPL	ug/l	0.4033	3858	1.000	1.000
JC76138-24 - 1	25 Oct 2018 15:48:33	SMPL	ug/l	0.2481	2391	1.000	1.000
JC76138-25 - 1	25 Oct 2018 15:50:11	SMPL	ug/l	0.1035	1024	1.000	1.000
JC76138-26 - 1	25 Oct 2018 15:51:41	SMPL	ug/l	5.9783	56571	1.000	1.000
JC76138-27 - 1	25 Oct 2018 15:53:06	SMPL	ug/l	1.2870	12214	1.000	1.000
JC76177-2 - 1	25 Oct 2018 15:55:04	SMPL	ug/l	4.6551	44060	1.000	1.000
JC76177-3 - 1	25 Oct 2018 15:56:46	SMPL	ug/l	5.2509	49693	1.000	1.000
JC76177-4 - 1	25 Oct 2018 15:58:41	SMPL	ug/l	6.4457	60990	1.000	1.000
JC76177-5 - 1	25 Oct 2018 16:00:41	SMPL	ug/l	5.3493	50623	1.000	1.000
CCV - 1	25 Oct 2018 16:02:39	CK STND	ug/l	102.1% 2.5529	24183	1.000	1.000
CCB - 1	25 Oct 2018 16:04:36	CK STND	ug/l	(H)0.4103	3924	1.000	1.000
CCB - 1	25 Oct 2018 16:08:09	CK STND	ug/l	-0.0048	0	1.000	1.000
CCV - 1	25 Oct 2018 16:14:57	CK STND	ug/l	103.2% 2.5801	24440	1.000	1.000
CCB - 1	25 Oct 2018 16:16:14	CK STND	ug/l	0.0085	125	1.000	1.000
JC76138-23 - 1	25 Oct 2018 16:17:58	SMPL	ug/l	0.4472	4273	1.000	1.000
JC76138-24 - 1	25 Oct 2018 16:19:19	SMPL	ug/l	0.2413	2326	1.000	1.000
JC76138-25 - 1	25 Oct 2018 16:20:57	SMPL	ug/l	0.1121	1105	1.000	1.000
JC76138-26 - 1	25 Oct 2018 16:22:29	SMPL	ug/l	5.9286	28073	1.000	2.000
JC76138-27 - 1	25 Oct 2018 16:24:46	SMPL	ug/l	1.1816	11217	1.000	1.000
JC76177-2 - 1	25 Oct 2018 16:26:09	SMPL	ug/l	4.5017	42609	1.000	1.000
JC76177-3 - 1	25 Oct 2018 16:27:52	SMPL	ug/l	5.7393	27178	1.000	2.000
JC76177-4 - 1	25 Oct 2018 16:29:50	SMPL	ug/l	6.6749	31601	1.000	2.000
JC76177-5 - 1	25 Oct 2018 16:31:40	SMPL	ug/l	5.5906	26475	1.000	2.000
CCV - 1	25 Oct 2018 16:33:30	CK STND	ug/l	102.4% 2.5607	24257	1.000	1.000
CCB - 1	25 Oct 2018 16:35:19	CK STND	ug/l	0.0130	168	1.000	1.000
JC76237-1 - 1	25 Oct 2018 16:37:02	SMPL	ug/l	0.4741	4528	1.000	1.000
JC76237-2 - 1	25 Oct 2018 16:38:23	SMPL	ug/l	0.1584	1543	1.000	1.000
JC76237-3 - 1	25 Oct 2018 16:39:58	SMPL	ug/l	0.0681	689	1.000	1.000
MP9850-S1 - 1	25 Oct 2018 16:41:24	SMPL	ug/l	9.1320	86389	1.000	1.000
MP9850-S1 - 1	25 Oct 2018 16:42:46	SMPL	ug/l	9.4214	17861	1.000	5.000
MP9850-S2 - 1	25 Oct 2018 16:44:45	SMPL	ug/l	9.3970	17815	1.000	5.000
JC76177-1 - 1	25 Oct 2018 16:46:30	SMPL	ug/l	7.2104	13680	1.000	5.000
CCV - 1	25 Oct 2018 16:48:14	CK STND	ug/l	102.2% 2.5543	24196	1.000	1.000
CCB - 1	25 Oct 2018 16:49:53	CK STND	ug/l	0.0134	172	1.000	1.000
JC76138-17CONF - 1	25 Oct 2018 17:02:37	SMPL	ug/l	1.1594	11007	1.000	1.000
JC76037-2CONF - 1	25 Oct 2018 17:05:02	SMPL	ug/l	2.9018	27482	1.000	1.000
CCV - 1	25 Oct 2018 17:07:56	CK STND	ug/l	102.0% 2.5502	24157	1.000	1.000
CCB - 1	25 Oct 2018 17:09:13	CK STND	ug/l	0.0185	220	1.000	1.000

ACCUTEST

Linear



A= 0.0000e+000

B= 1.0576e-004

C= -4.7531e-003

Rho= 0.9998596

Accept= Accepted

Accepted Date=

10/25/18 09:39

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
STDA	0.000	0.009	0.009	133	0.000	133				
STDB	0.200	0.198	-0.002	1920	0.0 %	1920				
STDC	0.500	0.465	-0.035	4437	0.0 %	4437				
STDD	1.000	0.996	-0.004	9465	0.0 %	9465				
STDE	2.500	2.556	0.056	24217	0.0 %	24217				
STDF	5.000	4.975	-0.025	47085	0.0 %	47085				

Zoom In
Zoom Out

Sample Name: STDA Acquired: 10/24/2018 15:29:26 Type: Cal
Method: SGS NO VALVE3(v348) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0006**	**-.0025**	**.0005**	**.0000**	**-.0000**	**.0088**	**.0000**	**-.0005**	**-.0014**
Stddev	.0009	.0003	.0000	.0001	.0000	.0000	.0000	.0001	.0000
%RSD	144.9	11.00	9.774	177.4	276.4	.1662	32.92	19.15	1.285
#1	-.0001	-.0028	.0004	.0000	.0000	.0088	.0000	-.0006	-.0014
#2	-.0017	-.0023	.0005	-.0000	-.0000	.0088	.0000	-.0004	-.0014
#3	-.0001	-.0023	.0004	.0001	-.0000	.0088	.0000	-.0004	-.0014

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0001**	**.0016**	**-.0008**	**-.0002**	**-.0003**	**.0003**	**-.0010**	**.0001**	**.0107**
Stddev	.0000	.0002	.0001	.0001	.0000	.0001	.0001	.0007	.0006
%RSD	41.76	13.06	6.018	52.36	4.892	33.44	10.05	689.9	5.973
#1	.0000	.0018	-.0009	-.0001	-.0002	.0004	-.0009	-.0006	.0102
#2	.0001	.0016	-.0009	-.0003	-.0003	.0003	-.0011	.0001	.0114
#3	.0001	.0014	-.0008	-.0002	-.0002	.0002	-.0009	.0008	.0106

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0002**	**-.0001**	**.0057**	**-.0048**	**.0012**	**.0022**	**.0056**	**.0002**	**-.0006**
Stddev	.0005	.0003	.0016	.0014	.0000	.0001	.0002	.0001	.0002
%RSD	281.6	307.4	27.99	29.62	3.027	4.260	3.906	48.44	32.37
#1	.0007	-.0003	.0064	-.0034	.0012	.0023	.0057	.0002	-.0006
#2	.0000	-.0002	.0069	-.0049	.0012	.0021	.0054	.0001	-.0008
#3	-.0002	.0003	.0039	-.0062	.0011	.0022	.0059	.0002	-.0004

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0006**	**.0021**	**-.0004**	**-.0007**	**-.0006**	**.0136**	**-.0060**
Stddev	.0001	.0001	.0001	.0001	.0002	.0014	.0001
%RSD	14.45	6.014	20.39	13.82	31.93	10.56	1.177
#1	-.0007	.0022	-.0003	-.0007	-.0006	.0140	-.0060
#2	-.0006	.0020	-.0005	-.0007	-.0008	.0148	-.0059
#3	-.0005	.0020	-.0004	-.0008	-.0004	.0120	-.0060

Zoom In
Zoom Out

Sample Name: STDA Acquired: 10/24/2018 15:29:26 Type: Cal
Method: SGS NO VALVE3(v348) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98295.**	**4567.7**	**4311.4**	**10879.**
Stddev	164.	6.8	9.9	14.
%RSD	.16708	.14793	.23030	.12490
#1	98263.	4575.5	4300.1	10876.
#2	98150.	4563.0	4318.8	10894.
#3	98473.	4564.8	4315.4	10867.

Zoom In
Zoom Out

Sample Name: STDB Acquired: 10/24/2018 15:34:56 Type: Cal
Method: SGS NO VALVE3(v348) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14.14**	**17.21**	**4.631**	**1.856**	**.6844**	**1.670**	**1.712**	**1.365**	**.1217**
Stddev	.00	.04	.002	.002	.0027	.011	.005	.001	.0004
%RSD	.0041	.2058	.0434	.0899	.3998	.6287	.2833	.0808	.3567
#1	14.14	17.22	4.633	1.858	.6874	1.678	1.716	1.367	.1221
#2	14.14	17.23	4.631	1.856	.6836	1.674	1.714	1.364	.1218
#3	14.14	17.17	4.629	1.855	.6821	1.658	1.707	1.365	.1212

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.057**	**3.873**	**.5714**	**.1619**	**.5246**	**.4062**	**.8118**	**4.648**	**7.039**
Stddev	.005	.003	.0002	.0003	.0003	.0005	.0003	.005	.029
%RSD	.4328	.0812	.0338	.2002	.0544	.1236	.0339	.1164	.4177
#1	1.062	3.874	.5714	.1622	.5250	.4060	.8117	4.648	7.054
#2	1.057	3.876	.5711	.1615	.5245	.4068	.8115	4.653	7.057
#3	1.053	3.870	.5715	.1620	.5245	.4059	.8121	4.642	7.005

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.912**	**.6487**	**7.638**	**24.44**	**1.038**	**3.287**	**2.675**	**.6440**	**9.719**
Stddev	.009	.0022	.009	.03	.001	.002	.001	.0012	.006
%RSD	.1914	.3397	.1219	.1259	.0600	.0595	.0211	.1827	.0662
#1	4.919	.6486	7.631	24.45	1.037	3.286	2.674	.6449	9.726
#2	4.917	.6509	7.648	24.46	1.038	3.289	2.675	.6443	9.713
#3	4.901	.6465	7.633	24.41	1.038	3.286	2.675	.6426	9.719

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.176**	**1.646**	**2.544**	**.3425**	**1.103**	**12.03**	**.6862**
Stddev	.004	.002	.009	.0007	.001	.01	.0019
%RSD	.3588	.1055	.3610	.1937	.0638	.1146	.2727
#1	1.181	1.646	2.544	.3426	1.103	12.01	.6854
#2	1.176	1.648	2.553	.3430	1.104	12.03	.6884
#3	1.172	1.644	2.534	.3417	1.103	12.04	.6849

Zoom In
Zoom Out

Sample Name: STDB Acquired: 10/24/2018 15:34:56 Type: Cal
Method: SGS NO VALVE3(v348) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**92404.**	**4468.6**	**4073.2**	**9906.5**
Stddev	299.	21.9	2.5	4.0
%RSD	.32397	.48912	.06108	.04025
#1	92154.	4466.0	4074.7	9902.1
#2	92322.	4448.1	4070.4	9909.8
#3	92735.	4491.6	4074.6	9907.7

Zoom In Zoom Out

Sample Name: ccvconf Acquired: 10/24/2018 15:40:16 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.980**	**2.079**	**2.010**	**2.014**	**2.051**	**2.000**	**2.078**	**2.040**	**.2500**
Stddev	.002	.004	.005	.002	.012	.016	.012	.002	.0014
%RSD	.1139	.1958	.2601	.0981	.5848	.7845	.5716	.1188	.5712
#1	1.979	2.084	2.016	2.012	2.062	2.013	2.088	2.038	.2510
#2	1.982	2.079	2.006	2.013	2.038	1.983	2.065	2.040	.2484
#3	1.978	2.075	2.008	2.016	2.053	2.005	2.080	2.043	.2507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.040**	**2.062**	**1.989**	**2.049**	**2.039**	**2.006**	**1.993**	**39.81**	**40.07**
Stddev	.013	.006	.005	.002	.001	.009	.008	.09	.17
%RSD	.6522	.3160	.2557	.0740	.0522	.4266	.4039	.2189	.4281
#1	2.053	2.057	1.995	2.049	2.039	2.016	2.002	39.91	40.27
#2	2.026	2.059	1.985	2.048	2.039	2.000	1.987	39.80	40.00
#3	2.042	2.069	1.987	2.051	2.041	2.003	1.991	39.73	39.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.15**	**39.99**	**39.08**	**39.60**	**2.032**	**2.018**	**5.181**	**2.032**	**2.006**
Stddev	.16	.29	.06	.06	.008	.004	.016	.003	.001
%RSD	.4026	.7329	.1509	.1628	.3891	.2028	.3046	.1392	.0665
#1	40.31	40.30	39.13	39.65	2.041	2.022	5.199	2.034	2.007
#2	40.15	39.72	39.10	39.62	2.027	2.015	5.171	2.029	2.006
#3	39.99	39.95	39.02	39.53	2.028	2.015	5.173	2.034	2.005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccvconf Acquired: 10/24/2018 15:40:16 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.024**	**1.995**	**2.028**	**1.983**	**1.994**	**2.025**	**2.015**
Stddev	.013	.004	.013	.009	.009	.002	.004
%RSD	.6186	.2082	.6584	.4678	.4685	.0853	.1730
#1	2.036	1.999	2.038	1.994	2.003	2.023	2.019
#2	2.011	1.991	2.013	1.976	1.993	2.025	2.012
#3	2.026	1.994	2.033	1.979	1.985	2.026	2.014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**93773.**	**4430.0**	**4180.1**	**10210.**
Stddev	612.	24.6	14.6	14.
%RSD	.65299	.55621	.34973	.13572
#1	93212.	4402.7	4163.2	10195.
#2	94427.	4436.6	4188.5	10222.
#3	93681.	4450.6	4188.5	10215.

Zoom In Zoom Out

Sample Name: ccbconf Acquired: 10/24/2018 15:45:22 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0001**	**.0001**	**-.0001**	**.0000**	**-.0002**	**.0000**	**-.0002**	**-.0002**
Stddev	.0002	.0001	.0001	.0001	.0001	.0004	.0000	.0001	.0002
%RSD	60.60	79.81	151.5	101.4	266.6	188.4	88.18	43.64	106.5
#1	.0002	-.0001	.0001	-.0001	-.0000	-.0005	.0001	-.0002	-.0000
#2	.0005	-.0000	.0001	.0000	-.0000	.0002	.0000	-.0003	-.0005
#3	.0001	-.0001	-.0000	-.0002	.0002	-.0004	.0000	-.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0009**	**.0006**	**-.0016**	**.0001**	**.0012**	**.0001**	**-.0036**	**-.0033**
Stddev	.0001	.0001	.0004	.0010	.0003	.0004	.0007	.0247	.0054
%RSD	751.3	6.308	63.54	61.99	346.6	36.43	1031.	688.5	161.7
#1	.0001	-.0009	.0003	-.0027	-.0003	.0007	-.0006	.0206	-.0071
#2	.0000	-.0008	.0005	-.0006	.0004	.0013	.0000	-.0026	.0028
#3	-.0001	-.0008	.0011	-.0017	.0002	.0016	.0007	-.0287	-.0057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0083**	**.0723**	**.0088**	**.0024**	F **.0032**	**.0007**	**.0003**	**-.0001**
Stddev	.0056	.0367	.0145	.0045	.0007	.0006	.0004	.0003	.0001
%RSD	1809.	442.5	20.03	50.73	27.51	18.88	65.78	99.65	121.2
#1	.0040	.0484	.0718	.0136	.0026	.0039	.0012	.0007	-.0002
#2	.0030	-.0236	.0871	.0081	.0030	.0030	.0003	.0003	.0000
#3	-.0061	.0001	.0581	.0048	.0017	.0027	.0005	.0000	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccbconf Acquired: 10/24/2018 15:45:22 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0015**	**.0001**	**-.0009**	**.0002**	**.0014**	**-.0003**
Stddev	.0001	.0007	.0000	.0013	.0004	.0002	.0002
%RSD	33.05	44.41	27.12	135.7	182.2	12.32	73.92
#1	.0002	.0020	.0001	-.0009	.0005	.0012	-.0003
#2	.0004	.0018	.0002	-.0022	.0005	.0015	-.0001
#3	.0002	.0008	.0001	.0003	-.0003	.0014	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97871.**	**4549.9**	**4324.5**	**10885.**
Stddev	1069.	14.9	7.0	6.
%RSD	1.0927	.32816	.16228	.05788
#1	98484.	4534.9	4328.8	10891.
#2	96636.	4564.8	4316.4	10886.
#3	98491.	4550.1	4328.4	10878.

Zoom In
Zoom Out

Sample Name: icv Acquired: 10/24/2018 15:50:56 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.984**	**2.051**	**2.014**	**2.021**	**2.043**	**1.985**	**2.074**	**2.046**	**.2418**
Stddev	.005	.005	.003	.003	.009	.012	.010	.002	.0014
%RSD	.2429	.2443	.1234	.1523	.4583	.5948	.4633	.1014	.5755
#1	1.980	2.051	2.014	2.022	2.047	1.992	2.081	2.048	.2422
#2	1.981	2.046	2.011	2.018	2.032	1.972	2.063	2.044	.2403
#3	1.989	2.056	2.016	2.024	2.049	1.992	2.078	2.045	.2430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.028**	**2.069**	**1.991**	**2.057**	**2.043**	**2.000**	**1.994**	**39.31**	**39.85**
Stddev	.010	.006	.002	.002	.006	.003	.003	.08	.23
%RSD	.5008	.2691	.0937	.1165	.3109	.1393	.1548	.2128	.5730
#1	2.035	2.068	1.991	2.054	2.051	2.001	1.994	39.24	39.75
#2	2.016	2.064	1.989	2.058	2.040	1.997	1.991	39.29	39.69
#3	2.033	2.075	1.992	2.059	2.039	2.003	1.997	39.41	40.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.85**	**39.37**	**38.84**	**39.21**	**2.035**	**2.013**	**4.978**	**2.039**	**2.007**
Stddev	.19	.25	.16	.09	.003	.004	.002	.003	.002
%RSD	.4888	.6421	.4116	.2408	.1561	.2129	.0455	.1307	.1115
#1	39.78	39.22	38.80	39.18	2.033	2.011	4.977	2.039	2.006
#2	39.70	39.22	38.71	39.13	2.033	2.009	4.976	2.036	2.005
#3	40.07	39.66	39.02	39.31	2.038	2.017	4.981	2.041	2.010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In
Zoom Out

Sample Name: icv Acquired: 10/24/2018 15:50:56 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.014**	**1.993**	**2.019**	**1.968**	**1.975**	**1.984**	**2.021**
Stddev	.010	.004	.010	.003	.003	.004	.004
%RSD	.5016	.1793	.4884	.1401	.1536	.1786	.1882
#1	2.021	1.992	2.024	1.965	1.971	1.987	2.021
#2	2.003	1.990	2.008	1.969	1.976	1.980	2.017
#3	2.019	1.997	2.025	1.970	1.977	1.985	2.025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94621.**	**4502.1**	**4194.0**	**10222.**
Stddev	527.	28.1	5.7	7.
%RSD	.55683	.62394	.13651	.06500
#1	94514.	4499.4	4196.3	10226.
#2	95194.	4531.5	4198.2	10226.
#3	94156.	4475.5	4187.5	10214.

Zoom In
Zoom Out

Sample Name: icb Acquired: 10/24/2018 15:56:00 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0001**	**.0000**	**-.0001**	**-.0000**	**.0001**	**-.0001**	**.0002**
Stddev	.0002	.0000	.0001	.0001	.0002	.0002	.0001	.0001	.0002
%RSD	112.7	40.42	152.7	12340.	260.0	6304.	43.68	132.0	72.22
#1	.0000	.0001	-.0001	-.0001	.0001	-.0003	.0002	-.0002	.0001
#2	.0004	.0000	.0001	.0001	-.0000	.0001	.0001	-.0000	.0002
#3	.0001	.0001	.0002	-.0000	-.0003	.0002	.0001	-.0000	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0010**	**.0004**	**-.0010**	**-.0001**	**.0021**	**.0006**	**.0108**	**-.0007**
Stddev	.0003	.0001	.0012	.0018	.0007	.0006	.0007	.0052	.0012
%RSD	204.7	5.674	290.2	181.4	907.8	28.05	121.6	47.95	158.8
#1	.0004	-.0010	-.0008	-.0018	-.0003	.0025	-.0002	.0071	-.0020
#2	-.0001	-.0009	.0017	.0011	-.0007	.0023	.0009	.0085	-.0004
#3	.0001	-.0010	.0004	-.0022	.0007	.0014	.0011	.0167	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032**	**-.0192**	**.0645**	**.0103**	**.0014**	**.0019**	**-.0000**	**.0001**	**.0000**
Stddev	.0017	.0478	.0148	.0024	.0004	.0003	.0005	.0006	.0002
%RSD	54.27	249.0	23.02	22.95	26.10	18.07	931.2	429.6	7465.
#1	.0039	-.0186	.0816	.0085	.0018	.0022	.0003	.0003	.0002
#2	.0012	.0283	.0557	.0129	.0014	.0019	-.0006	.0007	-.0001
#3	.0044	-.0672	.0561	.0094	.0010	.0015	.0001	-.0006	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: icb Acquired: 10/24/2018 15:56:00 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0016**	**.0002**	**-.0007**	**-.0003**	**.0001**	**-.0004**
Stddev	.0001	.0006	.0000	.0025	.0010	.0002	.0007
%RSD	31.80	36.14	24.97	348.9	332.7	195.8	192.6
#1	.0003	.0009	.0002	-.0024	-.0014	.0001	.0004
#2	.0001	.0019	.0002	.0021	.0006	-.0001	-.0005
#3	.0002	.0020	.0001	-.0019	-.0001	.0003	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98007.**	**4490.6**	**4355.4**	**10904.**
Stddev	177.	11.1	3.5	8.
%RSD	.18067	.24748	.08069	.06909
#1	97891.	4492.2	4356.6	10912.
#2	97920.	4478.9	4358.2	10897.
#3	98211.	4500.9	4351.5	10905.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 16:01:36 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.971**	**2.072**	**2.008**	**2.015**	**2.046**	**1.981**	**2.071**	**2.048**	**.2473**
Stddev	.003	.003	.002	.002	.008	.010	.008	.002	.0012
%RSD	.1250	.1184	.1034	.1038	.3818	.4926	.3689	.0828	.4925
#1	1.972	2.074	2.007	2.017	2.055	1.990	2.079	2.048	.2485
#2	1.968	2.069	2.006	2.015	2.044	1.982	2.071	2.050	.2475
#3	1.972	2.073	2.010	2.013	2.040	1.970	2.063	2.046	.2460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.028**	**2.068**	**1.988**	**2.061**	**2.043**	**2.007**	**1.988**	**39.75**	**40.36**
Stddev	.009	.002	.002	.003	.002	.004	.002	.04	.07
%RSD	.4216	.0891	.1153	.1535	.1018	.2046	.1218	.1069	.1707
#1	2.036	2.067	1.990	2.062	2.042	2.011	1.990	39.80	40.39
#2	2.029	2.066	1.985	2.063	2.045	2.004	1.986	39.71	40.41
#3	2.019	2.069	1.988	2.057	2.042	2.005	1.988	39.74	40.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.31**	**40.31**	**38.97**	**39.49**	**2.027**	**2.008**	**5.161**	**2.036**	**1.998**
Stddev	.07	.11	.07	.06	.001	.001	.003	.005	.004
%RSD	.1723	.2696	.1693	.1461	.0252	.0335	.0557	.2434	.1886
#1	40.37	40.44	39.05	39.56	2.027	2.008	5.160	2.037	2.002
#2	40.34	40.25	38.92	39.44	2.027	2.008	5.159	2.031	1.994
#3	40.23	40.25	38.95	39.48	2.028	2.007	5.164	2.041	1.998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 16:01:36 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.010**	**1.994**	**2.018**	**1.981**	**1.986**	**1.998**	**2.018**
Stddev	.010	.002	.011	.005	.008	.004	.000
%RSD	.4990	.0980	.5307	.2396	.4100	.1857	.0154
#1	2.020	1.993	2.027	1.986	1.996	2.000	2.018
#2	2.010	1.993	2.019	1.981	1.981	1.994	2.018
#3	2.000	1.996	2.006	1.977	1.982	2.001	2.018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94394.**	**4411.4**	**4200.9**	**10225.**
Stddev	340.	12.0	2.1	6.
%RSD	.36015	.27201	.05045	.06199
#1	94062.	4403.3	4199.7	10220.
#2	94378.	4405.6	4203.4	10223.
#3	94741.	4425.1	4199.8	10232.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 16:06:40 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**-.0000**	**.0000**	**.0001**	**-.0000**	**.0001**	**-.0001**	**.0000**
Stddev	.0002	.0001	.0001	.0000	.0002	.0002	.0000	.0001	.0002
%RSD	258.8	49.96	171.5	179.6	141.6	3342.	33.73	110.0	385.8
#1	-.0001	.0002	-.0001	-.0000	.0001	.0002	.0001	-.0002	-.0001
#2	.0001	.0001	.0000	.0000	.0003	-.0002	.0001	.0000	.0000
#3	.0002	.0001	-.0000	.0000	-.0001	-.0000	.0001	-.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0007**	**.0001**	**.0000**	**-.0005**	**.0024**	**.0005**	**.0021**	**-.0014**
Stddev	.0001	.0001	.0002	.0005	.0005	.0008	.0009	.0020	.0027
%RSD	178.0	7.604	279.1	3424.	95.43	31.95	174.5	94.28	193.2
#1	.0002	-.0007	.0003	-.0005	-.0000	.0017	.0016	.0024	-.0010
#2	-.0001	-.0007	-.0002	.0006	-.0005	.0023	-.0001	-.0000	.0011
#3	.0001	-.0008	.0001	-.0000	-.0010	.0033	.0001	.0040	-.0042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0151**	**.0355**	**.0066**	**.0009**	**.0015**	**-.0003**	**.0001**	**-.0000**
Stddev	.0036	.0224	.0083	.0086	.0001	.0005	.0004	.0009	.0001
%RSD	2281.	148.9	23.27	130.4	10.37	29.45	115.0	1120.	663.1
#1	-.0017	.0399	.0300	.0085	.0010	.0020	.0000	-.0003	-.0000
#2	-.0028	-.0036	.0315	.0141	.0009	.0016	-.0003	.0010	.0001
#3	.0040	.0088	.0450	-.0028	.0008	.0011	-.0007	-.0005	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 16:06:40 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0013**	**.0002**	**-.0006**	**.0005**	**.0012**	**-.0003**
Stddev	.0002	.0000	.0000	.0017	.0002	.0010	.0005
%RSD	105.5	2.549	7.501	292.3	43.11	81.39	209.7
#1	.0002	.0013	.0001	.0010	.0003	.0020	.0003
#2	-.0000	.0012	.0002	-.0003	.0007	.0001	-.0008
#3	.0003	.0013	.0002	-.0024	.0004	.0016	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97572.**	**4488.9**	**4359.6**	**10978.**
Stddev	211.	16.1	2.4	4.
%RSD	.21671	.35798	.05396	.03291
#1	97345.	4503.7	4357.8	10980.
#2	97764.	4471.8	4358.7	10973.
#3	97606.	4491.1	4362.3	10979.

Zoom In Zoom Out

Sample Name: crid 7 Acquired: 10/24/2018 16:12:16 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0044**	**.0011**	**.0012**	**.0033**	**.0023**	F **.0003**	**.0035**	**.0043**
Stddev	.0003	.0000	.0000	.0001	.0000	.0002	.0000	.0002
%RSD	7.234	.6545	.9601	2.006	1.570	55.05	1.060	4.228
#1	.0041	.0011	.0012	.0033	.0023	.0005	.0035	.0042
#2	.0043	.0010	.0012	.0032	.0023	.0001	.0035	.0042
#3	.0047	.0011	.0012	.0033	.0022	.0004	.0036	.0046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value						.0020		
Range						-20.00%		

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0002**	**.0022**	**.0107**	**.0030**	**.0017**	F **-.0007**	F **.0065**	F **-.0009**
Stddev	.0000	.0001	.0002	.0009	.0008	.0003	.0012	.0009
%RSD	5.496	6.141	1.506	31.41	44.93	38.19	18.92	105.8
#1	.0002	.0021	.0108	.0038	.0022	-.0011	.0051	-.0004
#2	.0002	.0023	.0108	.0032	.0022	-.0006	.0071	-.0003
#3	.0002	.0023	.0105	.0020	.0008	-.0006	.0074	-.0019
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
Value	.0020					.0025	.0050	.0030
Range	-20.00%					-20.00%	30.00%	-20.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1102**	**1.108**	**-.0007**	**.1154**	**2.064**	**1.062**	**-.0005**	**-.0005**
Stddev	.0111	.005	.0007	.0335	.017	.008	.0003	.0001
%RSD	10.09	.4397	94.99	29.05	.8200	.7178	53.58	20.94
#1	.1069	1.113	-.0009	.0930	2.080	1.063	-.0006	-.0004
#2	.1010	1.103	-.0012	.0991	2.047	1.054	-.0007	-.0004
#3	.1225	1.109	.0000	.1539	2.067	1.069	-.0002	-.0006
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Zoom In Zoom Out

Sample Name: crid 7 Acquired: 10/24/2018 16:12:16 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0047**	**.0006**	**-.0001**	**-.0000**	**-.0000**	**.0001**	**-.0016**	**.0002**
Stddev	.0005	.0003	.0002	.0001	.0007	.0000	.0013	.0006
%RSD	10.43	56.01	127.7	473.7	1464.	53.50	82.84	309.6
#1	-.0044	.0010	-.0003	-.0001	-.0008	.0001	-.0024	-.0005
#2	-.0053	.0004	-.0000	.0001	.0001	.0001	-.0022	.0004
#3	-.0045	.0005	-.0000	-.0001	.0005	.0001	-.0001	.0007
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0015**	**-.0012**
Stddev	.0006	.0010
%RSD	40.53	88.44
#1	.0022	-.0016
#2	.0014	.0000
#3	.0010	-.0019
Check ?	None	None
Value		
Range		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97662.**	**4501.9**	**4339.0**	**10886.**
Stddev	777.	24.8	4.6	5.
%RSD	.79525	.55168	.10612	.04502
#1	96979.	4481.5	4335.7	10881.
#2	97500.	4494.7	4337.0	10891.
#3	98507.	4529.6	4344.2	10884.

Zoom In Zoom Out

Sample Name: cri Acquired: 10/24/2018 16:17:48 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1919**	**.0019**	**.0032**	**.0499**	**.0103**	**.0107**	**.0163**	**.0099**	**.0053**
Stddev	.0001	.0001	.0001	.0002	.0001	.0001	.0001	.0002	.0002
%RSD	.0373	3.295	1.947	.3108	1.163	.7312	.3920	2.274	4.481
#1	.1918	.0019	.0031	.0497	.0104	.0107	.0163	.0102	.0051
#2	.1920	.0018	.0032	.0500	.0103	.0106	.0162	.0098	.0053
#3	.1919	.0020	.0032	.0500	.0102	.0108	.0163	.0098	.0055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0512**	**.0205**	**.0091**	**.0113**	**.0025**	**.0097**	**.0063**	**.2179**	**5.092**
Stddev	.0003	.0001	.0003	.0010	.0007	.0006	.0002	.0087	.029
%RSD	.6018	.5126	3.506	8.925	26.50	5.906	3.669	3.999	.5720
#1	.0509	.0206	.0088	.0124	.0021	.0096	.0066	.2276	5.078
#2	.0513	.0204	.0095	.0108	.0021	.0103	.0063	.2152	5.072
#3	.0515	.0205	.0092	.0106	.0033	.0092	.0061	.2108	5.125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1078**	**4.922**	**4.710**	**4.846**	**.0988**	**.0194**	**.1857**	**.0096**	**.0098**
Stddev	.0035	.033	.028	.014	.0008	.0002	.0015	.0008	.0001
%RSD	3.244	.6601	.5909	.2830	.7814	1.028	.8236	8.621	1.504
#1	.1046	4.959	4.683	4.830	.0994	.0196	.1859	.0096	.0097
#2	.1072	4.896	4.708	4.851	.0980	.0192	.1840	.0105	.0100
#3	.1115	4.912	4.739	4.856	.0992	.0194	.1870	.0089	.0098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: cri Acquired: 10/24/2018 16:17:48 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0104**	**.0502**	F **.0179**	**.0488**	**.0206**	**.0495**	**.0503**
Stddev	.0001	.0005	.0005	.0005	.0005	.0009	.0007
%RSD	.9673	.9320	2.948	1.094	2.351	1.833	1.383
#1	.0103	.0500	.0184	.0486	.0204	.0485	.0499
#2	.0105	.0498	.0178	.0484	.0211	.0503	.0499
#3	.0105	.0507	.0174	.0494	.0202	.0498	.0511
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.0100				
Range			20.00%				

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97087.**	**4585.2**	**4314.9**	**10796.**
Stddev	140.	27.5	2.4	6.
%RSD	.14419	.60034	.05467	.05419
#1	97242.	4611.8	4314.6	10802.
#2	97048.	4586.9	4317.4	10791.
#3	96970.	4556.8	4312.7	10794.

Zoom In Zoom Out

Sample Name: icsa Acquired: 10/24/2018 16:23:16 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**-.0000**	**.0021**	**-.0017**	**.0002**	**-.0003**	**.0052**	**-.0018**	**.0028**
Stddev	.0001	.0001	.0001	.0001	.0002	.0001	.0001	.0003	.0007
%RSD	6.427	126.5	6.215	7.156	97.88	32.83	2.584	14.27	23.80
#1	.0017	-.0001	.0019	-.0018	.0003	-.0003	.0054	-.0015	.0036
#2	.0015	-.0001	.0022	-.0016	-.0000	-.0003	.0052	-.0020	.0026
#3	.0016	.0000	.0022	-.0016	.0002	-.0004	.0051	-.0019	.0023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0024**	**.0007**	**-.0008**	**-.0004**	**-.0017**	**.0031**	**-.0011**	**535.6**	**393.2**
Stddev	.0004	.0004	.0018	.0021	.0027	.0032	.0015	1.8	1.8
%RSD	15.07	53.48	227.6	482.5	159.3	102.5	137.1	.3446	.4542
#1	-.0025	.0007	-.0026	.0013	.0004	.0048	-.0028	537.5	395.1
#2	-.0026	.0010	-.0009	-.0028	-.0047	-.0006	-.0000	533.9	391.5
#3	-.0020	.0003	.0011	.0002	-.0007	.0051	-.0005	535.4	393.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**203.0**	**528.8**	**-.0095**	**.0056**	**-.0038**	**-.0002**	**-.0154**	**-.0045**	**.0012**
Stddev	.7	3.1	.0273	.0011	.0001	.0003	.0010	.0002	.0002
%RSD	.3466	.5787	287.9	19.77	2.076	195.1	6.216	5.228	12.99
#1	203.8	531.8	-.0321	.0045	-.0039	-.0003	-.0146	-.0046	.0010
#2	202.4	525.7	.0209	.0067	-.0038	.0002	-.0151	-.0047	.0013
#3	202.9	528.7	-.0172	.0058	-.0037	-.0004	-.0164	-.0042	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: icsa Acquired: 10/24/2018 16:23:16 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033**	**.0093**	**.0022**	**-.0115**	**.0080**	**.0032**	**.0156**
Stddev	.0001	.0011	.0001	.0019	.0011	.0001	.0005
%RSD	2.136	11.66	3.970	16.45	13.69	2.262	3.148
#1	.0032	.0091	.0023	-.0094	.0077	.0032	.0161
#2	.0034	.0105	.0023	-.0129	.0093	.0031	.0152
#3	.0033	.0084	.0021	-.0124	.0071	.0032	.0156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**87876.**	**4227.4**	**3887.3**	**9279.1**
Stddev	392.	19.7	6.8	16.7
%RSD	.44621	.46579	.17401	.17944
#1	88269.	4205.3	3890.2	9283.7
#2	87873.	4243.0	3879.6	9260.6
#3	87485.	4233.9	3892.2	9292.9

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 10/24/2018 16:28:24 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5087**	**.5077**	**1.013**	**.4768**	**.4735**	**.5255**	**.5003**	**.9609**	**1.055**
Stddev	.0016	.0009	.001	.0005	.0007	.0023	.0004	.0011	.003
%RSD	.3143	.1826	.0894	.0998	.1519	.4305	.0769	.1107	.2618
#1	.5080	.5075	1.014	.4773	.4727	.5229	.5000	.9622	1.053
#2	.5106	.5069	1.012	.4764	.4737	.5267	.5003	.9602	1.056
#3	.5076	.5087	1.013	.4768	.4740	.5268	.5007	.9605	1.058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4787**	**.9416**	**1.015**	**.9580**	**.9615**	**.9938**	**1.013**	**522.4**	**401.1**
Stddev	.0008	.0016	.004	.0018	.0044	.0041	.000	.5	.8
%RSD	.1642	.1748	.3583	.1867	.4557	.4099	.0231	.0922	.1974
#1	.4778	.9435	1.018	.9584	.9659	.9970	1.013	522.1	400.4
#2	.4790	.9411	1.017	.9560	.9571	.9892	1.013	523.0	401.9
#3	.4793	.9403	1.011	.9595	.9616	.9952	1.013	522.2	400.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**197.4**	**521.7**	**-.0125**	**.2023**	**.5586**	**.4843**	**.4789**	**.4522**	**.4857**
Stddev	.1	.6	.0131	.0032	.0015	.0005	.0023	.0017	.0010
%RSD	.0503	.1118	104.8	1.575	.2597	.0961	.4855	.3758	.1962
#1	197.3	521.1	-.0135	.2054	.5594	.4842	.4768	.4540	.4862
#2	197.5	521.8	.0011	.2025	.5569	.4848	.4814	.4520	.4846
#3	197.4	522.2	-.0250	.1990	.5594	.4839	.4786	.4507	.4864
Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	None	None	None
Value									
Range									

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 10/24/2018 16:28:24 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4832**	**.4779**	**.4662**	**.4908**	**.5083**	**.5203**	**.5036**
Stddev	.0010	.0016	.0055	.0040	.0015	.0009	.0012
%RSD	.2123	.3305	1.176	.8212	.2927	.1762	.2421
#1	.4821	.4774	.4604	.4892	.5073	.5200	.5022
#2	.4839	.4765	.4670	.4877	.5076	.5196	.5038
#3	.4838	.4796	.4713	.4953	.5100	.5213	.5047
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**88321.**	**4221.7**	**3880.1**	**9277.8**
Stddev	73.	9.7	1.4	7.5
%RSD	.08237	.23067	.03518	.08082
#1	88404.	4230.1	3880.2	9272.1
#2	88270.	4211.0	3881.3	9286.3
#3	88287.	4223.9	3878.6	9275.1

Zoom In Zoom Out

Sample Name: hstd 7 Acquired: 10/24/2018 16:33:23 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.975**	**8.413**	**7.919**	**8.265**	**8.503**	**8.055**	**8.279**	**8.247**	**.5659**
Stddev	.006	.007	.008	.011	.048	.045	.055	.013	.0029
%RSD	.0763	.0822	.1017	.1380	.5638	.5573	.6604	.1536	.5139
#1	7.978	8.408	7.915	8.264	8.536	8.015	8.326	8.239	.5679
#2	7.978	8.421	7.915	8.253	8.448	8.046	8.219	8.241	.5625
#3	7.968	8.410	7.929	8.276	8.525	8.103	8.292	8.262	.5671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.356**	**8.524**	**7.995**	**8.237**	**8.281**	**8.077**	**8.040**	**.0513**	**.0412**
Stddev	.050	.004	.005	.003	.020	.001	.005	.0084	.0012
%RSD	.5940	.0533	.0680	.0298	.2381	.0151	.0632	16.43	3.029
#1	8.382	8.519	7.990	8.237	8.275	8.076	8.034	.0435	.0398
#2	8.299	8.525	7.993	8.240	8.265	8.076	8.042	.0503	.0421
#3	8.387	8.528	8.001	8.236	8.303	8.078	8.044	.0602	.0418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0080**	**-.0836**	**.0361**	**.0214**	**8.116**	**8.165**	**25.04**	**8.343**	**8.020**
Stddev	.0066	.0061	.0312	.0069	.004	.014	.06	.010	.009
%RSD	82.35	7.340	86.48	32.32	.0438	.1768	.2423	.1160	.1123
#1	.0135	-.0844	.0680	.0294	8.112	8.153	24.98	8.334	8.028
#2	.0099	-.0770	.0345	.0174	8.115	8.161	25.04	8.342	8.023
#3	.0007	-.0892	.0057	.0174	8.119	8.181	25.10	8.353	8.010
Check ?	None	None	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: hstd 7 Acquired: 10/24/2018 16:33:23 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.201**	**8.404**	**8.164**	**105.6**	**7.935**	**8.013**	**8.028**
Stddev	.041	.013	.034	.1	.014	.008	.011
%RSD	.5037	.1512	.4196	.0636	.1727	.0963	.1311
#1	8.241	8.396	8.150	105.6	7.920	8.019	8.017
#2	8.159	8.396	8.140	105.6	7.940	8.015	8.038
#3	8.204	8.418	8.204	105.7	7.946	8.004	8.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95657.**	**4484.3**	**4275.2**	**10755.**
Stddev	438.	21.8	2.9	14.
%RSD	.45816	.48531	.06811	.13221
#1	95463.	4508.4	4272.3	10742.
#2	96159.	4478.4	4278.2	10770.
#3	95349.	4466.0	4275.1	10752.

Zoom In Zoom Out

Sample Name: hstd Acquired: 10/24/2018 16:39:04 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**-.0049**	**.0019**	**-.0013**	**.0006**	**-.0010**	**.0046**	**-.0010**	**.0018**
Stddev	.0002	.0001	.0001	.0001	.0002	.0002	.0001	.0004	.0005
%RSD	11.85	1.964	7.553	7.066	32.49	20.58	2.064	38.07	29.25
#1	.0014	-.0048	.0018	-.0012	.0006	-.0008	.0045	-.0006	.0013
#2	.0016	-.0049	.0017	-.0013	.0004	-.0011	.0047	-.0010	.0024
#3	.0018	-.0050	.0020	-.0014	.0007	-.0011	.0047	-.0013	.0018
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0020**	**.0047**	**-.0019**	**.0020**	**-.0035**	**.0059**	**.0007**	**315.1**	**198.7**
Stddev	.0002	.0003	.0014	.0016	.0014	.0027	.0004	1.3	.7
%RSD	8.996	5.765	74.96	79.02	39.24	46.36	61.48	.4254	.3515
#1	-.0022	.0047	-.0034	.0036	-.0024	.0036	.0008	313.6	197.9
#2	-.0019	.0049	-.0015	.0003	-.0031	.0089	.0011	315.7	198.8
#3	-.0019	.0044	-.0007	.0022	-.0051	.0052	.0002	316.1	199.3
Check ?	None	None	None	None	None	None	None	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**197.6**	**311.5**	**201.0**	**199.8**	**.0042**	**.0136**	**-.0025**	**-.0030**	**.0007**
Stddev	.7	.7	.3	1.1	.0016	.0021	.0005	.0009	.0001
%RSD	.3650	.2216	.1397	.5646	38.73	15.67	21.38	29.33	16.48
#1	196.8	310.7	200.7	199.0	.0059	.0158	-.0027	-.0040	.0005
#2	197.7	311.6	201.2	201.1	.0041	.0133	-.0030	-.0025	.0007
#3	198.2	312.1	201.1	199.2	.0026	.0116	-.0019	-.0025	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	None	None
Value									
Range									

Zoom In Zoom Out

Sample Name: hstd Acquired: 10/24/2018 16:39:04 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026**	**.0118**	**.0024**	**-.0086**	**.0093**	**.0093**	**.0089**
Stddev	.0001	.0012	.0001	.0016	.0004	.0005	.0013
%RSD	4.706	10.37	5.710	18.57	3.884	5.612	14.15
#1	.0028	.0127	.0025	-.0093	.0092	.0088	.0081
#2	.0026	.0123	.0024	-.0068	.0090	.0092	.0103
#3	.0025	.0104	.0023	-.0097	.0097	.0099	.0081
Check ?	None	None	None	None	None	None	None
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**88761.**	**4346.7**	**3957.3**	**9354.5**
Stddev	92.	14.9	11.0	8.1
%RSD	.10342	.34216	.27825	.08639
#1	88669.	4363.3	3944.7	9346.1
#2	88853.	4342.1	3965.1	9355.1
#3	88762.	4334.6	3962.1	9362.2

Zoom In Zoom Out

Sample Name: emptyconf Acquired: 10/24/2018 16:44:32 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.868**	F **8.443**	**-.0006**	**-.0054**	**2.810**	*****	**2.893**	**.0009**
Stddev	.011	.015	.0003	.0098	4.861	-----	4.735	.0003
%RSD	.1384	.1813	50.71	179.3	173.0	-----	163.7	35.47
#1	7.858	8.439	-.0008	-.0167	8.423	8.034	8.358	.0005
#2	7.867	8.430	-.0005	.0001	.0063	.0001	.3204	.0010
#3	7.880	8.460	-.0003	.0003	.0006	-----	.0006	.0011

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1841**	**2.717**	**-.0006**	**.0024**	**.0427**	**.0026**	**-.0025**	F **-.0277**
Stddev	.3192	4.701	.0011	.0035	.0652	.0004	.0013	.0543
%RSD	173.4	173.0	193.0	146.9	152.6	15.86	51.64	195.7
#1	.5527	8.145	.0007	-.0017	.1180	.0031	-.0039	-.0904
#2	-.0002	.0053	-.0013	.0043	.0050	.0026	-.0023	.0037
#3	-.0003	.0005	-.0011	.0045	.0052	.0022	-.0013	.0035

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4002**	**.0639**	**.0201**	**-.2335**	**.2247**	**.0691**	**.0026**	**-.0018**
Stddev	.0119	.0079	.0016	.0631	.0224	.0012	.0012	.0004
%RSD	2.980	12.39	8.207	27.05	9.951	1.670	46.90	21.73
#1	.3866	.0547	.0220	-.2019	.2399	.0687	.0038	-.0013
#2	.4051	.0685	.0189	-.3062	.2352	.0704	.0025	-.0020
#3	.4089	.0683	.0193	-.1923	.1991	.0681	.0014	-.0020

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.1638**	**.0078**	**7.913**	**2.739**	**-.0036**	**2.788**	**-.0071**	**.0056**
Stddev	.2677	.0145	.109	4.737	.0003	4.819	.0313	.0076
%RSD	163.4	185.0	1.373	173.0	8.915	172.9	442.0	135.1
#1	-.4729	.0246	7.956	8.209	-.0039	8.353	-.0433	.0144
#2	-.0066	-.0007	7.790	.0063	-.0033	.0099	.0099	.0012
#3	-.0119	-.0003	7.994	.0017	-.0035	.0013	.0121	.0013

Zoom In Zoom Out

Sample Name: emptyconf Acquired: 10/24/2018 16:44:32 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	F **8.004**	**-.0140**
Stddev	.004	.0149
%RSD	.0532	106.0
#1	7.999	-.0312
#2	8.008	-.0048
#3	8.004	-.0061

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**287030.**	**4466.7**	**21785.**	**49654.**
Stddev	166280.	12.2	68.	165.
%RSD	57.933	.27408	.31268	.33242
#1	95123.	4467.8	21812.	49729.
#2	377540.	4478.4	21707.	49464.
#3	388430.	4454.0	21835.	49768.

Zoom In Zoom Out

Sample Name: sampleconf Acquired: 10/24/2018 16:50:13 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**-.0047**	**.0030**	**-.0003**	**.0007**	**-.0007**	**.0047**	**-.0034**	**.0023**
Stddev	.0001	.0001	.0001	.0000	.0002	.0002	.0002	.0000	.0008
%RSD	6.251	2.732	1.691	14.32	30.92	36.39	4.305	1.156	33.20
#1	.0018	-.0049	.0031	-.0002	.0009	-.0005	.0048	-.0035	.0025
#2	.0016	-.0047	.0030	-.0003	.0007	-.0006	.0049	-.0034	.0029
#3	.0017	-.0046	.0031	-.0003	.0005	-.0009	.0045	-.0034	.0015
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0019**	**-.0057**	**.0099**	**.0197**	**.0238**	**.0292**	**.0156**	**319.1**	**200.8**
Stddev	.0001	.0000	.0002	.0003	.0002	.0001	.0002	1.0	1.0
%RSD	5.287	.2930	1.904	1.293	.6438	.2649	1.313	.2984	.4774
#1	-.0018	-.0057	.0098	.0199	.0237	.0293	.0158	319.8	201.8
#2	-.0020	-.0057	.0102	.0197	.0240	.0292	.0154	319.6	200.6
#3	-.0019	-.0058	.0099	.0194	.0237	.0292	.0156	318.0	199.9
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**199.7**	**317.9**	**199.5**	**200.4**	**-.0025**	**.0002**	**-.0207**	**-.0041**	**.0004**
Stddev	.7	1.1	.9	2.2	.0001	.0001	.0014	.0000	.0002
%RSD	.3316	.3428	.4590	1.116	4.378	35.40	6.832	.8947	47.91
#1	200.4	318.9	200.4	201.5	-.0026	.0003	-.0191	-.0041	.0003
#2	199.7	318.0	199.5	201.9	-.0025	.0002	-.0216	-.0040	.0007
#3	199.1	316.7	198.5	197.9	-.0024	.0002	-.0215	-.0041	.0004
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Zoom In Zoom Out

Sample Name: sampleconf Acquired: 10/24/2018 16:50:13 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**-.0042**	**.0026**	**-.0476**	**-.0031**	**.0097**	**-.0056**
Stddev	.0002	.0004	.0000	.0003	.0002	.0007	.0001
%RSD	7.199	10.09	.7756	.6168	5.379	7.090	2.398
#1	.0023	-.0037	.0026	-.0480	-.0029	.0105	-.0055
#2	.0026	-.0045	.0026	-.0476	-.0032	.0093	-.0057
#3	.0024	-.0043	.0026	-.0474	-.0032	.0094	-.0057
Check ?	None	None	None	None	None	None	None
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**88258.**	**4260.4**	**21535.**	**49160.**
Stddev	995.	21.5	74.	139.
%RSD	1.1272	.50423	.34437	.28291
#1	88336.	4241.6	21484.	49096.
#2	89211.	4255.8	21501.	49065.
#3	87226.	4283.8	21620.	49320.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 16:55:44 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.979**	**2.069**	**2.014**	**2.029**	**2.045**	**1.994**	**2.084**	**2.055**	**.2468**
Stddev	.006	.004	.004	.001	.008	.003	.006	.002	.0007
%RSD	.3261	.1766	.1805	.0346	.3723	.1288	.2980	.0718	.2995
#1	1.986	2.073	2.018	2.030	2.054	1.997	2.091	2.054	.2477
#2	1.977	2.069	2.013	2.030	2.044	1.994	2.080	2.055	.2463
#3	1.973	2.065	2.011	2.029	2.039	1.991	2.081	2.057	.2465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.035**	**2.087**	**2.004**	**2.059**	**2.060**	**2.028**	**2.004**	**39.89**	**40.30**
Stddev	.006	.002	.006	.006	.002	.005	.004	.04	.07
%RSD	.2791	.0854	.3228	.2886	.0766	.2406	.1890	.0926	.1851
#1	2.041	2.089	2.011	2.057	2.058	2.034	2.008	39.92	40.24
#2	2.033	2.086	2.005	2.054	2.060	2.026	2.005	39.85	40.27
#3	2.030	2.086	1.998	2.066	2.061	2.025	2.000	39.91	40.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.44**	**39.90**	**38.79**	**39.43**	**2.049**	**2.027**	**5.193**	**2.048**	**2.006**
Stddev	.01	.09	.08	.10	.002	.001	.011	.001	.005
%RSD	.0226	.2300	.1973	.2640	.0854	.0600	.2174	.0651	.2670
#1	40.43	39.81	38.86	39.54	2.049	2.028	5.206	2.049	2.012
#2	40.45	39.88	38.80	39.40	2.047	2.026	5.186	2.049	2.005
#3	40.43	39.99	38.71	39.34	2.050	2.026	5.187	2.046	2.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 16:55:44 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.016**	**2.010**	**2.029**	**1.993**	**2.004**	**2.004**	**2.032**
Stddev	.005	.002	.003	.001	.001	.010	.004
%RSD	.2610	.1119	.1427	.0357	.0706	.4912	.2233
#1	2.022	2.013	2.032	1.994	2.005	2.015	2.034
#2	2.013	2.011	2.028	1.992	2.004	2.000	2.026
#3	2.012	2.008	2.027	1.993	2.002	1.996	2.035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94260.**	**4445.3**	**4186.7**	**10218.**
Stddev	324.	12.4	7.1	4.
%RSD	.34404	.27871	.17011	.03909
#1	93886.	4455.1	4179.0	10214.
#2	94450.	4449.4	4187.9	10222.
#3	94445.	4431.3	4193.0	10219.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 17:00:49 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0000**	**-.0000**	**.0000**	**-.0000**	**.0002**	**.0001**	**-.0001**	**-.0003**
Stddev	.0003	.0001	.0001	.0002	.0001	.0003	.0000	.0002	.0001
%RSD	248.8	330.6	330.1	654.3	550.9	106.4	35.76	205.4	25.83
#1	.0004	.0000	.0000	.0003	.0001	.0004	.0001	.0001	-.0003
#2	.0001	-.0001	.0000	-.0001	-.0000	-.0001	.0001	-.0003	-.0002
#3	-.0001	-.0000	-.0001	-.0000	-.0001	.0004	.0001	-.0002	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0002**	**.0000**	**.0006**	**-.0003**	**.0007**	**.0005**	**.0010**	**-.0015**
Stddev	.0001	.0001	.0007	.0017	.0002	.0015	.0006	.0039	.0018
%RSD	52.42	74.23	1436.	272.8	53.48	217.2	113.4	380.0	119.4
#1	.0003	-.0000	-.0007	-.0012	-.0003	.0011	.0002	.0020	-.0024
#2	.0003	-.0003	.0006	.0007	-.0005	.0019	.0012	.0044	.0006
#3	.0001	-.0003	.0002	.0023	-.0002	-.0010	.0002	-.0033	-.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029**	**-.0395**	**.0938**	**.0232**	**.0023**	F **.0035**	**.0016**	**.0004**	**-.0000**
Stddev	.0018	.0143	.0246	.0017	.0004	.0006	.0003	.0004	.0001
%RSD	62.52	36.23	26.20	7.264	18.63	18.06	18.25	91.16	2955.
#1	.0044	-.0412	.1110	.0214	.0024	.0041	.0018	.0001	-.0000
#2	.0035	-.0528	.1049	.0232	.0018	.0035	.0016	.0008	-.0001
#3	.0009	-.0244	.0657	.0248	.0026	.0028	.0013	.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 17:00:49 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0022**	**.0001**	**-.0019**	**-.0002**	**.0020**	**.0001**
Stddev	.0003	.0007	.0000	.0005	.0006	.0004	.0012
%RSD	116.3	31.27	14.28	27.66	401.0	19.67	1913.
#1	-.0001	.0030	.0001	-.0013	-.0002	.0023	.0009
#2	.0003	.0018	.0001	-.0023	-.0007	.0016	-.0013
#3	.0005	.0018	.0001	-.0022	.0005	.0022	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97227.**	**4577.0**	**4323.6**	**10868.**
Stddev	712.	28.2	3.1	18.
%RSD	.73220	.61574	.07281	.16185
#1	96493.	4606.2	4327.3	10885.
#2	97274.	4550.0	4322.1	10850.
#3	97914.	4574.7	4321.6	10868.

Zoom In Zoom Out

Sample Name: feconf Acquired: 10/24/2018 17:06:25 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0000**	**.0016**	**-.0005**	**.0005**	**-.0031**	**.0041**	**-.0002**	**.0016**
Stddev	.0001	.0000	.0001	.0001	.0000	.0002	.0002	.0001	.0007
%RSD	12.43	140.0	3.255	13.65	7.621	7.669	4.529	65.90	46.64
#1	.0006	.0001	.0016	-.0004	.0005	-.0033	.0039	-.0003	.0009
#2	.0007	-.0000	.0017	-.0006	.0004	-.0032	.0043	-.0001	.0024
#3	.0006	.0000	.0017	-.0004	.0004	-.0028	.0041	-.0002	.0015

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0022**	**-.0014**	**.0014**	**.0049**	**-.0002**	**.0043**	**.0010**	**.0072**	**-.0448**
Stddev	.0000	.0003	.0005	.0024	.0012	.0008	.0009	.0122	.0049
%RSD	2.054	18.22	36.87	49.18	550.9	18.75	83.44	168.7	10.87
#1	-.0022	-.0014	.0016	.0075	.0011	.0051	.0004	.0214	-.0497
#2	-.0022	-.0012	.0017	.0044	-.0013	.0035	.0020	.0003	-.0399
#3	-.0022	-.0017	.0008	.0027	-.0004	.0042	.0006	.0000	-.0448

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **213.6**	**-.0537**	**-.0412**	**.0089**	**-.0029**	**-.0004**	**-.0008**	**-.0024**	**-.0002**
Stddev	.4	.0246	.0265	.0066	.0003	.0001	.0002	.0003	.0002
%RSD	.2089	45.87	64.28	73.94	9.410	15.38	19.92	13.57	122.0
#1	213.2	-.0794	-.0338	.0016	-.0028	-.0004	-.0006	-.0027	-.0003
#2	214.1	-.0303	-.0192	.0108	-.0027	-.0005	-.0009	-.0021	.0001
#3	213.6	-.0513	-.0706	.0143	-.0032	-.0004	-.0009	-.0023	-.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0010**	**.0026**	**-.0258**	**.0121**	**.0015**	**.0025**
Stddev	.0003	.0010	.0002	.0025	.0013	.0003	.0004
%RSD	192.3	105.4	6.215	9.899	10.72	20.74	15.93
#1	-.0001	.0001	.0025	-.0242	.0112	.0018	.0023
#2	.0001	.0021	.0028	-.0244	.0136	.0013	.0030
#3	-.0005	.0007	.0025	-.0287	.0114	.0013	.0023

Zoom In Zoom Out

Sample Name: feconf Acquired: 10/24/2018 17:06:25 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96537.**	**4496.9**	**4286.0**	**10934.**
Stddev	760.	10.8	4.2	18.
%RSD	.78724	.23906	.09751	.16446
#1	95824.	4503.0	4282.1	10914.
#2	97336.	4484.5	4290.4	10938.
#3	96452.	4503.3	4285.5	10950.

Zoom In Zoom Out

Sample Name: crconf Acquired: 10/24/2018 17:11:56 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0000**	**.0000**	**.0002**	F **10.32**	**-.0007**	**-.0011**	**-.0001**	**-.0002**
Stddev	.0002	.0001	.0001	.0002	.01	.0000	.0000	.0001	.0001
%RSD	114.1	197.4	466.1	155.0	.1214	4.563	.4533	106.7	49.47
#1	.0000	.0001	-.0001	.0004	10.31	-.0006	-.0011	-.0002	-.0001
#2	.0004	-.0000	.0001	.0000	10.31	-.0007	-.0011	-.0001	-.0004
#3	.0001	.0000	.0000	-.0000	10.33	-.0007	-.0011	.0000	-.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0011**	**-.0033**	**-.0015**	**.0006**	**.0009**	**.0004**	**.0002**	**-.0003**	**-.0005**
Stddev	.0001	.0002	.0002	.0014	.0009	.0019	.0021	.0053	.0023
%RSD	11.82	4.563	16.15	227.8	105.2	479.0	1362.	1615.	446.4
#1	-.0011	-.0035	-.0018	-.0003	.0007	.0021	.0020	-.0062	-.0004
#2	-.0010	-.0032	-.0013	.0022	.0019	-.0017	.0005	.0011	.0017
#3	-.0013	-.0032	-.0014	-.0001	.0001	.0009	-.0021	.0041	-.0028

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**-.0250**	**.0170**	**.0029**	**-.0011**	**.0000**	**-.0008**	**-.0007**	**-.0001**
Stddev	.0024	.0367	.0363	.0035	.0004	.0000	.0010	.0003	.0001
%RSD	121.0	146.6	213.6	122.2	40.88	319.1	123.9	41.24	132.3
#1	.0001	.0159	.0063	.0017	-.0010	-.0000	-.0000	-.0008	.0000
#2	.0047	-.0359	.0575	.0001	-.0016	.0000	-.0005	-.0009	-.0001
#3	.0012	-.0550	-.0127	.0068	-.0007	.0000	-.0020	-.0004	-.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**.0004**	**-.0011**	**.0004**	**-.0037**	**-.0000**	**-.0010**
Stddev	.0001	.0006	.0002	.0006	.0004	.0004	.0006
%RSD	4.142	147.4	14.78	177.2	10.57	854.4	61.09
#1	.0019	.0005	-.0010	.0005	-.0037	.0002	-.0007
#2	.0018	.0009	-.0010	.0009	-.0033	.0002	-.0005
#3	.0019	-.0002	-.0013	-.0003	-.0041	-.0005	-.0016

Zoom In Zoom Out

Sample Name: crconf Acquired: 10/24/2018 17:11:56 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98224.**	**4550.7**	**4298.2**	**10952.**
Stddev	70.	7.5	43.9	113.
%RSD	.07098	.16522	1.0204	1.0296
#1	98172.	4543.3	4276.5	10894.
#2	98303.	4550.3	4269.5	10881.
#3	98196.	4558.3	4348.7	11082.

Zoom In Zoom Out

Sample Name: asconf Acquired: 10/24/2018 17:17:30 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**-.0006**	**-.0001**	**-.0001**	**-.0000**	**.0001**	**-.0001**	**-.0006**
Stddev	.0001	.0001	.0001	.0002	.0001	.0002	.0000	.0003	.0000
%RSD	31.02	76.82	23.46	255.7	143.0	432.7	46.31	238.6	3.690
#1	.0001	.0002	-.0005	.0001	-.0001	.0001	.0001	-.0003	-.0006
#2	.0002	.0001	-.0008	-.0001	.0000	.0000	.0001	.0002	-.0006
#3	.0002	.0000	-.0006	-.0003	-.0003	-.0002	.0000	-.0003	-.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0003**	**5.269**	**-.0016**	**.0002**	**.0002**	**.0004**	**.0020**	**-.0011**
Stddev	.0001	.0000	.006	.0017	.0008	.0015	.0004	.0059	.0003
%RSD	266.8	14.10	.1184	105.2	354.9	648.1	99.68	299.4	25.92
#1	.0001	-.0002	5.274	-.0029	.0007	-.0011	.0009	-.0035	-.0010
#2	.0002	-.0003	5.262	.0003	-.0007	.0001	.0004	.0011	-.0009
#3	-.0001	-.0003	5.270	-.0021	.0008	.0018	.0000	.0083	-.0014

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**-.0052**	**-.0204**	**-.0008**	**-.0015**	**-.0007**	**-.0011**	**-.0005**	**-.0001**
Stddev	.0015	.0568	.0068	.0016	.0003	.0001	.0001	.0006	.0001
%RSD	289.1	1086.	33.56	196.1	19.82	12.58	5.783	127.5	145.4
#1	.0002	-.0664	-.0209	-.0017	-.0012	-.0006	-.0012	-.0003	-.0001
#2	-.0022	.0048	-.0133	.0010	-.0016	-.0007	-.0010	-.0012	.0000
#3	.0004	.0459	-.0270	-.0018	-.0018	-.0008	-.0011	-.0000	-.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0005**	**.0001**	**-.0024**	**.0001**	**.0002**	**-.0007**
Stddev	.0001	.0003	.0000	.0005	.0006	.0007	.0004
%RSD	38.00	69.38	89.65	19.65	502.7	273.1	61.45
#1	.0004	.0001	.0001	-.0019	-.0006	.0001	-.0004
#2	.0002	.0005	-.0000	-.0025	.0003	-.0004	-.0005
#3	.0003	.0007	.0001	-.0028	.0006	.0010	-.0011

Zoom In Zoom Out

Sample Name: asconf Acquired: 10/24/2018 17:17:30 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98513.**	**4545.4**	**4345.1**	**10928.**
Stddev	227.	20.9	3.2	4.
%RSD	.22991	.45923	.07401	.03583
#1	98281.	4561.3	4341.7	10926.
#2	98734.	4521.8	4348.1	10933.
#3	98524.	4553.2	4345.5	10927.

Zoom In Zoom Out

Sample Name: mp9814-mb1 7 Acquired: 10/24/2018 17:23:01 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0000**	**.0002**	**-.0001**	**.0010**	**.0013**	**.0002**	**.0006**	**-.0002**
Stddev	.0001	.0001	.0002	.0001	.0001	.0001	.0000	.0003	.0002
%RSD	38.98	319.5	82.42	100.9	6.103	5.411	7.252	44.89	99.00
#1	.0002	.0001	.0003	-.0001	.0010	.0013	.0002	.0003	-.0001
#2	.0002	-.0000	.0002	.0000	.0011	.0013	.0002	.0009	-.0001
#3	.0004	-.0001	.0000	-.0002	.0011	.0014	.0002	.0007	-.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0022**	**.0010**	**-.0001**	**.0000**	**.0006**	**.0002**	**.0074**	**.0324**
Stddev	.0001	.0001	.0000	.0015	.0002	.0004	.0003	.0059	.0009
%RSD	3644.	5.591	4.530	2688.	958.1	73.42	151.9	79.79	2.733
#1	-.0001	.0021	.0010	.0017	-.0000	.0010	.0004	.0059	.0330
#2	.0001	.0023	.0010	-.0008	-.0001	.0001	.0004	.0024	.0329
#3	.0000	.0022	.0009	-.0010	.0002	.0007	-.0002	.0139	.0314

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0194**	**-.0021**	**.0524**	**.0830**	**-.0014**	**-.0008**	**.0109**	**.0174**	**.0000**
Stddev	.0017	.0077	.0120	.0057	.0002	.0000	.0003	.0007	.0001
%RSD	8.876	361.6	22.80	6.924	15.71	4.304	2.931	4.179	162.7
#1	.0208	-.0092	.0627	.0882	-.0011	-.0008	.0105	.0169	.0000
#2	.0175	-.0034	.0393	.0840	-.0015	-.0009	.0111	.0170	.0000
#3	.0199	.0062	.0553	.0768	-.0015	-.0008	.0110	.0182	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0002**	**.0002**	**.0092**	**-.0000**	**.0006**	**.0199**
Stddev	.0003	.0002	.0001	.0018	.0010	.0008	.0006
%RSD	96.39	75.65	30.73	19.94	2933.	140.4	2.806
#1	.0002	-.0004	.0002	.0112	.0006	.0009	.0204
#2	.0007	-.0001	.0001	.0076	.0004	.0011	.0193
#3	.0001	-.0002	.0003	.0087	-.0011	-.0003	.0200

Zoom In Zoom Out

Sample Name: mp9814-mb1 7 Acquired: 10/24/2018 17:23:01 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98161.**	**4475.7**	**4293.8**	**10849.**
Stddev	289.	5.6	9.5	12.
%RSD	.29402	.12558	.22020	.10835
#1	98211.	4470.8	4304.5	10862.
#2	98421.	4474.5	4286.4	10840.
#3	97851.	4481.9	4290.6	10845.

Zoom In Zoom Out

Sample Name: mp9814-b1 Acquired: 10/24/2018 17:28:31 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.828**	**1.959**	**1.876**	**1.898**	**1.911**	**1.869**	**1.955**	**1.917**
Stddev	.007	.004	.001	.002	.012	.009	.013	.003
%RSD	.3683	.1802	.0711	.0903	.6289	.4761	.6849	.1317
#1	1.835	1.963	1.876	1.897	1.923	1.878	1.968	1.920
#2	1.822	1.956	1.875	1.900	1.912	1.870	1.957	1.918
#3	1.828	1.958	1.878	1.897	1.899	1.860	1.941	1.915

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2349**	**1.894**	**1.969**	**1.873**	**1.904**	**1.919**	**1.846**	**1.876**
Stddev	.0015	.010	.003	.005	.004	.002	.004	.003
%RSD	.6402	.5420	.1404	.2645	.2216	.1125	.1912	.1719
#1	.2364	1.904	1.966	1.867	1.902	1.920	1.843	1.873
#2	.2350	1.894	1.972	1.875	1.909	1.919	1.850	1.876
#3	.2334	1.883	1.968	1.877	1.902	1.916	1.847	1.880

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.28**	**24.59**	**24.64**	**24.15**	**23.36**	**24.08**	**1.864**	**1.921**
Stddev	.04	.05	.05	.01	.03	.07	.002	.002
%RSD	.1753	.1882	.2042	.0308	.1262	.2824	.0913	.1273
#1	24.32	24.61	24.68	24.15	23.38	24.16	1.862	1.918
#2	24.23	24.53	24.65	24.16	23.32	24.05	1.865	1.921
#3	24.29	24.62	24.58	24.15	23.37	24.04	1.864	1.923

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0349**	**1.959**	**1.862**	**1.909**	**1.533**	**1.909**	F **-.1692**	**-.0090**
Stddev	.0010	.003	.005	.010	.004	.010	.0006	.0002
%RSD	2.912	.1297	.2535	.5398	.2309	.5039	.3486	2.333
#1	.0341	1.960	1.868	1.918	1.529	1.919	-.1698	-.0093
#2	.0345	1.956	1.859	1.911	1.535	1.909	-.1687	-.0089
#3	.0360	1.961	1.861	1.898	1.535	1.899	-.1690	-.0089

Zoom In Zoom Out

Sample Name: mp9814-b1 Acquired: 10/24/2018 17:28:31 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0011**	**1.919**
Stddev	.0003	.003
%RSD	28.10	.1796
#1	.0007	1.921
#2	.0011	1.922
#3	.0013	1.915

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95555.**	**4442.6**	**4208.6**	**10393.**
Stddev	586.	2.1	3.8	9.
%RSD	.61288	.04694	.09046	.08724
#1	95031.	4443.3	4212.7	10396.
#2	95447.	4440.2	4208.1	10383.
#3	96188.	4444.2	4205.1	10400.

Zoom In Zoom Out

Sample Name: mp9814-s1 Acquired: 10/24/2018 17:33:35 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.474**	**1.913**	**1.897**	**1.942**	**2.741**	**2.414**	**4.765**	**2.094**	**.2469**
Stddev	.004	.005	.003	.002	.007	.004	.018	.003	.0003
%RSD	.1033	.2488	.1458	.1111	.2542	.1473	.3856	.1481	.1312
#1	3.478	1.913	1.897	1.941	2.735	2.416	4.760	2.095	.2467
#2	3.472	1.918	1.900	1.944	2.740	2.417	4.750	2.097	.2469
#3	3.472	1.908	1.895	1.940	2.749	2.410	4.786	2.091	.2473

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.132**	**2.951**	**1.946**	**1.885**	**4.885**	**1.853**	**1.229**	**113.7**	F **207.6**
Stddev	.002	.010	.005	.002	.006	.003	.001	.3	.5
%RSD	.1010	.3311	.2451	.0899	.1325	.1782	.0829	.2300	.2268
#1	2.130	2.946	1.946	1.886	4.881	1.851	1.228	113.8	207.5
#2	2.132	2.962	1.951	1.883	4.892	1.857	1.230	114.0	208.1
#3	2.134	2.944	1.941	1.886	4.880	1.852	1.230	113.5	207.2

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **206.8**	**61.08**	**40.00**	**33.53**	**1.895**	**1.854**	**3.928**	**2.201**	**3.025**
Stddev	.4	.36	.04	.07	.005	.003	.009	.006	.004
%RSD	.2093	.5930	.0896	.1977	.2560	.1822	.2328	.2565	.1319
#1	207.0	60.79	39.99	33.56	1.894	1.852	3.932	2.196	3.030
#2	207.1	61.48	40.03	33.58	1.900	1.858	3.934	2.207	3.024
#3	206.3	60.97	39.96	33.46	1.891	1.852	3.917	2.201	3.022

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.683**	**1.161**	**1.950**	**4.543**	**-.0126**	**.1257**	F **10.28**
Stddev	.007	.003	.002	.010	.0016	.0008	.01
%RSD	.1310	.2318	.1032	.2143	12.68	.6509	.1283
#1	5.677	1.159	1.948	4.543	-.0128	.1264	10.28
#2	5.681	1.164	1.950	4.553	-.0110	.1257	10.29
#3	5.692	1.159	1.952	4.534	-.0142	.1248	10.27

Zoom In Zoom Out

Sample Name: mp9814-s1 Acquired: 10/24/2018 17:33:35 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95197.**	**4582.8**	**4176.5**	**9989.5**
Stddev	157.	20.6	7.0	12.9
%RSD	.16494	.44995	.16701	.12945
#1	95202.	4594.3	4177.5	9992.4
#2	95351.	4559.0	4169.1	9975.3
#3	95037.	4595.1	4182.9	10001.

Zoom In Zoom Out

Sample Name: mp9814-s2 Acquired: 10/24/2018 17:38:45 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.345**	**1.971**	**1.913**	**1.946**	**2.919**	**2.400**	**4.800**	**2.091**	**.2482**
Stddev	.005	.004	.003	.004	.008	.024	.030	.004	.0011
%RSD	.1423	.1977	.1425	.2337	.2715	1.006	.6229	.1965	.4350
#1	3.343	1.968	1.915	1.950	2.928	2.427	4.831	2.093	.2493
#2	3.342	1.970	1.914	1.947	2.913	2.390	4.797	2.093	.2480
#3	3.351	1.975	1.910	1.941	2.916	2.382	4.771	2.086	.2472

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.135**	**2.800**	**1.974**	**1.886**	**4.833**	**1.867**	**1.252**	**114.4**	**196.5**
Stddev	.011	.008	.002	.004	.017	.005	.001	.3	.4
%RSD	.5015	.2769	.0920	.2132	.3444	.2497	.0578	.2262	.2119
#1	2.147	2.805	1.975	1.887	4.844	1.864	1.253	114.2	196.1
#2	2.129	2.803	1.976	1.890	4.841	1.865	1.252	114.3	196.5
#3	2.128	2.791	1.972	1.882	4.814	1.873	1.252	114.7	197.0

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **236.9**	**66.74**	**39.84**	**33.96**	**1.913**	**1.874**	**4.057**	**2.061**	**2.898**
Stddev	.3	.04	.08	.09	.003	.001	.007	.006	.003
%RSD	.1122	.0542	.2074	.2745	.1522	.0616	.1671	.2743	.1142
#1	236.8	66.72	39.78	33.87	1.917	1.873	4.054	2.064	2.898
#2	236.7	66.78	39.80	33.96	1.911	1.875	4.065	2.065	2.894
#3	237.2	66.73	39.93	34.05	1.913	1.873	4.052	2.055	2.901

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.718**	**1.220**	**1.952**	**4.175**	**-.0120**	**.1218**	F **8.912**
Stddev	.030	.002	.013	.006	.0004	.0011	.013
%RSD	.5251	.1705	.6824	.1518	2.931	.9277	.1505
#1	5.753	1.220	1.967	4.181	-.0120	.1212	8.916
#2	5.702	1.222	1.945	4.169	-.0116	.1211	8.923
#3	5.699	1.218	1.943	4.175	-.0123	.1231	8.897

Zoom In Zoom Out

Sample Name: mp9814-s2 Acquired: 10/24/2018 17:38:45 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95189.**	**4446.1**	**4151.8**	**9979.8**
Stddev	439.	15.5	5.9	9.4
%RSD	.46149	.34956	.14212	.09382
#1	94686.	4461.3	4158.5	9988.1
#2	95494.	4446.7	4149.8	9969.7
#3	95388.	4430.2	4147.2	9981.7

Zoom In Zoom Out

Sample Name: jc76377-1 Acquired: 10/24/2018 17:43:55 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.388**	**.0049**	**.0043**	**.0835**	**.7607**	**.7602**	**3.105**	**.2319**	**.0075**
Stddev	.002	.0001	.0004	.0004	.0027	.0003	.011	.0003	.0003
%RSD	.1362	1.820	8.372	.4209	.3500	.0381	.3575	.1249	4.581
#1	1.387	.0050	.0044	.0832	.7591	.7600	3.095	.2317	.0079
#2	1.390	.0048	.0045	.0835	.7637	.7601	3.117	.2318	.0072
#3	1.388	.0049	.0039	.0839	.7591	.7606	3.102	.2322	.0074

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3157**	**1.314**	**.0931**	**.0095**	**3.343**	**.0063**	**.0117**	**63.09**	**143.4**
Stddev	.0004	.005	.0007	.0019	.005	.0006	.0003	.05	.3
%RSD	.1403	.3585	.7939	19.76	.1501	9.579	2.944	.0772	.2027
#1	.3153	1.312	.0928	.0089	3.342	.0068	.0113	63.14	143.7
#2	.3162	1.310	.0925	.0080	3.339	.0056	.0120	63.06	143.1
#3	.3156	1.319	.0939	.0116	3.349	.0065	.0119	63.06	143.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **286.6**	**29.68**	**11.33**	**7.987**	**.0545**	**.0180**	**4.916**	**.1844**	**.9358**
Stddev	.7	.08	.02	.009	.0007	.0003	.029	.0011	.0010
%RSD	.2582	.2735	.1388	.1079	1.278	1.528	.5927	.5840	.1108
#1	287.4	29.76	11.32	7.977	.0552	.0181	4.943	.1848	.9362
#2	286.1	29.68	11.35	7.992	.0545	.0183	4.920	.1832	.9366
#3	286.2	29.60	11.33	7.992	.0538	.0177	4.885	.1853	.9346

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.328**	**.0256**	**.0676**	**4.610**	**.0015**	**.1106**	F **8.817**
Stddev	.003	.0014	.0005	.009	.0012	.0010	.012
%RSD	.0878	5.438	.7331	.2009	76.94	.8813	.1368
#1	3.326	.0270	.0682	4.605	.0028	.1111	8.830
#2	3.331	.0256	.0675	4.621	.0010	.1095	8.813
#3	3.326	.0242	.0672	4.604	.0007	.1111	8.807

Zoom In Zoom Out

Sample Name: jc76377-1 Acquired: 10/24/2018 17:43:55 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96349.**	**4502.0**	**4197.1**	**10309.**
Stddev	168.	11.1	6.3	5.
%RSD	.17461	.24596	.14896	.04860
#1	96484.	4490.3	4192.9	10314.
#2	96161.	4512.4	4194.1	10304.
#3	96404.	4503.3	4204.3	10310.

Zoom In Zoom Out

Sample Name: mp9814-sd1 Acquired: 10/24/2018 17:49:18 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.424**	**.0050**	**.0047**	**.0868**	**.8101**	**.7596**	**3.371**	**.2430**	**.0103**
Stddev	.004	.0003	.0011	.0008	.0047	.0051	.012	.0005	.0010
%RSD	.2884	5.014	22.92	.9026	.5820	.6713	.3470	.2080	9.812
#1	1.423	.0053	.0035	.0874	.8089	.7645	3.366	.2428	.0102
#2	1.428	.0049	.0051	.0871	.8060	.7543	3.362	.2426	.0093
#3	1.420	.0048	.0055	.0859	.8152	.7598	3.384	.2436	.0113

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3320**	**1.437**	**.1024**	**.0156**	**3.607**	**.0073**	**.0109**	**64.91**	**149.6**
Stddev	.0015	.003	.0051	.0077	.008	.0046	.0018	.13	.5
%RSD	.4503	.1768	5.029	49.12	.2167	63.84	16.05	.2021	.3400
#1	.3315	1.439	.1065	.0213	3.616	.0070	.0106	65.03	149.9
#2	.3308	1.434	.1040	.0069	3.603	.0121	.0093	64.77	149.0
#3	.3337	1.437	.0966	.0185	3.602	.0028	.0128	64.94	149.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**303.7**	**30.56**	**11.49**	**7.991**	**.0492**	**.0134**	**5.025**	**.1923**	**.9600**
Stddev	.8	.04	.12	.043	.0029	.0005	.048	.0022	.0035
%RSD	.2535	.1471	1.037	.5412	5.861	3.957	.9559	1.145	.3626
#1	304.2	30.57	11.59	8.027	.0492	.0140	5.081	.1948	.9638
#2	302.8	30.50	11.51	7.943	.0463	.0132	5.000	.1908	.9570
#3	304.0	30.59	11.36	8.004	.0521	.0130	4.995	.1912	.9593

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.449**	**.0297**	**.0682**	**4.649**	**.0069**	**.1133**	**9.356**
Stddev	.016	.0023	.0010	.039	.0046	.0022	.036
%RSD	.4615	7.885	1.519	.8396	66.39	1.908	.3898
#1	3.446	.0294	.0692	4.654	.0085	.1155	9.396
#2	3.434	.0275	.0671	4.607	.0104	.1130	9.325
#3	3.466	.0321	.0682	4.685	.0017	.1112	9.348

Zoom In Zoom Out

Sample Name: mp9814-sd1 Acquired: 10/24/2018 17:49:18 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98434.**	**4564.1**	**4335.9**	**10758.**
Stddev	383.	21.3	3.7	8.
%RSD	.38867	.46562	.08475	.07206
#1	98493.	4544.7	4332.1	10749.
#2	98785.	4586.8	4339.5	10760.
#3	98026.	4560.9	4336.0	10765.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 17:54:38 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.969**	**2.040**	**2.001**	**2.023**	**2.048**	**2.001**	**2.086**	**2.044**	**.2469**
Stddev	.005	.005	.004	.005	.001	.001	.000	.005	.0001
%RSD	.2602	.2645	.2169	.2394	.0392	.0591	.0182	.2289	.0476
#1	1.975	2.045	2.004	2.025	2.049	2.002	2.085	2.048	.2470
#2	1.969	2.040	2.003	2.026	2.048	2.000	2.086	2.045	.2468
#3	1.965	2.034	1.996	2.017	2.047	2.001	2.086	2.039	.2468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.037**	**2.076**	**1.991**	**2.042**	**2.051**	**2.009**	**1.989**	**39.41**	**39.90**
Stddev	.002	.006	.005	.016	.007	.003	.004	.07	.03
%RSD	.0746	.2845	.2497	.8023	.3493	.1670	.2057	.1816	.0725
#1	2.036	2.079	1.992	2.050	2.054	2.011	1.992	39.46	39.92
#2	2.039	2.079	1.994	2.052	2.056	2.010	1.991	39.44	39.92
#3	2.037	2.069	1.985	2.023	2.043	2.005	1.984	39.33	39.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.92**	**39.49**	**38.54**	**39.20**	**2.023**	**2.007**	**5.148**	**2.035**	**1.996**
Stddev	.07	.12	.09	.12	.002	.003	.006	.004	.005
%RSD	.1849	.2914	.2295	.2967	.0737	.1244	.1105	.1866	.2722
#1	39.95	39.35	38.61	39.32	2.022	2.008	5.153	2.039	2.001
#2	39.98	39.55	38.58	39.20	2.022	2.008	5.149	2.036	1.997
#3	39.84	39.55	38.44	39.09	2.024	2.004	5.142	2.031	1.990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 17:54:38 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.020**	**1.988**	**2.048**	**1.969**	**1.986**	**1.980**	**2.013**
Stddev	.000	.005	.001	.003	.001	.008	.003
%RSD	.0169	.2339	.0337	.1328	.0508	.4223	.1701
#1	2.020	1.993	2.049	1.972	1.987	1.987	2.015
#2	2.020	1.984	2.047	1.968	1.985	1.983	2.014
#3	2.019	1.986	2.048	1.967	1.986	1.971	2.009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94492.**	**4519.0**	**4229.6**	**10293.**
Stddev	108.	2.3	5.4	20.
%RSD	.11409	.05199	.12748	.19649
#1	94400.	4516.7	4225.6	10282.
#2	94467.	4521.4	4227.6	10281.
#3	94611.	4518.7	4235.8	10316.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 17:59:43 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0002**	**.0002**	**.0001**	**.0001**	**.0003**	**.0002**	**.0000**	**-.0000**
Stddev	.0003	.0000	.0001	.0002	.0001	.0001	.0000	.0001	.0001
%RSD	85.92	.4046	44.54	203.7	148.2	47.92	15.88	261.6	890.9
#1	.0000	.0002	.0003	-.0001	-.0000	.0002	.0002	.0001	.0001
#2	.0004	.0002	.0003	.0003	.0001	.0002	.0002	.0000	-.0001
#3	.0007	.0002	.0001	.0001	.0000	.0004	.0002	-.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0005**	**.0010**	**-.0005**	**-.0001**	**.0002**	**-.0002**	**.0061**	**-.0020**
Stddev	.0001	.0001	.0002	.0013	.0008	.0002	.0009	.0074	.0041
%RSD	57.13	10.43	20.59	264.7	1237.	82.67	433.5	121.8	204.5
#1	.0001	-.0005	.0011	-.0016	-.0009	.0002	-.0012	.0112	-.0041
#2	.0002	-.0006	.0012	-.0009	.0004	.0003	.0001	.0095	-.0046
#3	.0001	-.0004	.0008	.0010	.0004	.0000	.0005	-.0024	.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0084**	**.0088**	**.0272**	**.0033**	**.0002**	**.0009**	**-.0008**	**-.0001**	**.0001**
Stddev	.0046	.0202	.0040	.0068	.0002	.0003	.0011	.0005	.0000
%RSD	55.17	229.6	14.77	207.7	100.4	40.59	134.2	701.7	40.34
#1	.0091	.0053	.0240	-.0044	.0003	.0012	-.0021	.0004	.0000
#2	.0034	.0305	.0260	.0058	-.0000	.0005	-.0001	-.0005	.0001
#3	.0125	-.0094	.0317	.0084	.0003	.0008	-.0003	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 17:59:43 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0017**	**.0002**	**-.0006**	**-.0004**	**.0003**	**-.0001**
Stddev	.0004	.0011	.0001	.0011	.0014	.0000	.0012
%RSD	161.4	61.14	36.03	189.2	358.1	2.755	959.7
#1	.0001	.0019	.0001	-.0015	-.0020	.0003	-.0015
#2	.0007	.0027	.0001	.0006	.0008	.0003	.0010
#3	-.0001	.0006	.0002	-.0009	-.0001	.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98917.**	**4519.9**	**4374.6**	**10991.**
Stddev	390.	11.2	4.4	8.
%RSD	.39436	.24857	.09994	.07622
#1	99185.	4524.9	4378.5	10995.
#2	99097.	4527.7	4369.8	10997.
#3	98470.	4507.0	4375.4	10982.

Zoom In Zoom Out

Sample Name: jc76377-2 Acquired: 10/24/2018 18:05:16 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9767**	**.0038**	**.0084**	**.0554**	**.1239**	**.5570**	**1.686**	**.1607**	**.0044**
Stddev	.0056	.0000	.0002	.0004	.0005	.0013	.002	.0006	.0002
%RSD	.5754	1.322	2.012	.7442	.3954	.2359	.1096	.3790	5.513
#1	.9832	.0037	.0086	.0557	.1233	.5558	1.686	.1611	.0046
#2	.9734	.0037	.0082	.0555	.1243	.5566	1.685	.1611	.0042
#3	.9736	.0038	.0083	.0549	.1239	.5584	1.688	.1600	.0043

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1626**	**4.787**	**.0340**	**.0045**	**2.311**	**.0032**	**.0055**	**67.67**	**63.14**
Stddev	.0001	.014	.0007	.0022	.008	.0011	.0007	.37	.35
%RSD	.0841	.2895	2.111	48.03	.3501	35.84	13.16	.5512	.5466
#1	.1626	4.776	.0337	.0025	2.311	.0044	.0060	68.10	63.52
#2	.1624	4.803	.0336	.0042	2.320	.0022	.0059	67.46	62.84
#3	.1627	4.783	.0349	.0068	2.303	.0029	.0047	67.44	63.06

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**110.3**	**24.03**	**10.24**	**3.182**	**.0281**	**.0009**	**2.165**	**.1979**	**.2082**
Stddev	.6	.10	.06	.013	.0005	.0000	.020	.0023	.0018
%RSD	.5774	.4131	.6316	.4144	1.852	4.866	.9014	1.166	.8658
#1	111.0	24.06	10.32	3.196	.0287	.0009	2.186	.1985	.2102
#2	109.9	23.92	10.20	3.181	.0277	.0009	2.147	.1953	.2077
#3	110.0	24.11	10.21	3.170	.0279	.0009	2.163	.1998	.2068

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.105**	**.0205**	**.0552**	**1.218**	**-.0048**	**.0978**	**3.529**
Stddev	.003	.0007	.0002	.006	.0013	.0010	.005
%RSD	.1419	3.242	.3675	.5102	27.82	1.059	.1551
#1	2.103	.0211	.0554	1.218	-.0057	.0988	3.535
#2	2.104	.0205	.0551	1.211	-.0054	.0967	3.525
#3	2.109	.0198	.0551	1.224	-.0033	.0978	3.527

Zoom In Zoom Out

Sample Name: jc76377-2 Acquired: 10/24/2018 18:05:16 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98956.**	**4631.6**	**4352.8**	**10422.**
Stddev	39.	18.7	9.4	21.
%RSD	.03949	.40374	.21642	.19753
#1	98991.	4613.6	4343.3	10404.
#2	98962.	4650.9	4362.2	10418.
#3	98914.	4630.2	4352.9	10444.

Zoom In Zoom Out

Sample Name: jc76377-3 Acquired: 10/24/2018 18:10:31 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2839**	**.0040**	**.0023**	**.0644**	**.1839**	**.1739**	**2.970**	**.1292**	**.0040**
Stddev	.0007	.0001	.0001	.0002	.0010	.0011	.017	.0005	.0003
%RSD	.2444	1.577	5.816	.2440	.5569	.6363	.5782	.3840	8.004
#1	.2831	.0040	.0024	.0642	.1829	.1731	2.957	.1297	.0042
#2	.2842	.0041	.0021	.0645	.1837	.1734	2.963	.1292	.0042
#3	.2844	.0040	.0023	.0644	.1850	.1751	2.989	.1287	.0036

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2308**	**.3494**	**.0450**	**.0048**	**.1595**	**.0050**	**.0018**	**100.5**	**8.315**
Stddev	.0011	.0008	.0004	.0010	.0006	.0014	.0011	.2	.060
%RSD	.4597	.2396	.9173	21.89	.3563	28.53	64.53	.1753	.7257
#1	.2298	.3489	.0450	.0037	.1599	.0053	.0006	100.5	8.296
#2	.2305	.3504	.0455	.0048	.1589	.0062	.0029	100.7	8.382
#3	.2319	.3489	.0447	.0058	.1599	.0034	.0018	100.4	8.266

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**169.3**	**30.23**	**9.976**	**4.647**	**.0249**	**.0013**	**2.447**	**.0165**	**.1080**
Stddev	.8	.17	.022	.012	.0002	.0003	.012	.0004	.0002
%RSD	.4532	.5560	.2245	.2577	.8577	24.24	.4785	2.470	.1903
#1	169.5	30.18	9.970	4.655	.0247	.0016	2.456	.0160	.1082
#2	169.9	30.41	10.00	4.652	.0251	.0010	2.451	.0168	.1079
#3	168.4	30.09	9.956	4.633	.0250	.0013	2.434	.0166	.1078

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.727**	**.0023**	**.0653**	**.2528**	**-.0027**	**.2253**	**2.835**
Stddev	.006	.0008	.0007	.0041	.0016	.0002	.008
%RSD	.3553	37.75	1.128	1.632	59.29	.0830	.2895
#1	1.721	.0030	.0646	.2540	-.0023	.2256	2.843
#2	1.727	.0013	.0652	.2561	-.0045	.2252	2.835
#3	1.733	.0024	.0661	.2481	-.0014	.2253	2.826

Zoom In Zoom Out

Sample Name: jc76377-3 Acquired: 10/24/2018 18:10:31 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100440.**	**4642.0**	**4453.6**	**10597.**
Stddev	426.	33.2	6.3	17.
%RSD	.42414	.71622	.14075	.15996
#1	100780.	4643.6	4450.8	10589.
#2	100570.	4608.0	4449.1	10586.
#3	99961.	4674.4	4460.7	10617.

Zoom In Zoom Out

Sample Name: jc76377-4 Acquired: 10/24/2018 18:15:57 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4100**	**.0024**	**.0008**	**.0377**	**.2187**	**.0913**	**1.075**	**.1076**	**.0031**
Stddev	.0016	.0001	.0001	.0002	.0014	.0013	.007	.0006	.0006
%RSD	.3882	5.206	18.19	.5289	.6514	1.377	.6296	.5177	18.07
#1	.4117	.0025	.0007	.0379	.2187	.0910	1.076	.1079	.0033
#2	.4096	.0023	.0008	.0375	.2173	.0902	1.068	.1070	.0036
#3	.4085	.0022	.0010	.0377	.2201	.0927	1.081	.1080	.0025

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1773**	**.2330**	**.0215**	**.0058**	**.0813**	**.0015**	**-.0003**	**105.1**	**7.691**
Stddev	.0014	.0006	.0012	.0012	.0015	.0022	.0011	.4	.055
%RSD	.7839	.2542	5.598	20.03	1.865	145.6	369.9	.3689	.7099
#1	.1781	.2337	.0225	.0051	.0808	.0025	.0010	105.5	7.739
#2	.1757	.2325	.0201	.0072	.0801	-.0010	-.0011	105.1	7.701
#3	.1782	.2329	.0218	.0052	.0830	.0030	-.0008	104.7	7.632

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**113.7**	**26.13**	**10.42**	**8.221**	**.0219**	**.0004**	**3.947**	**.0189**	**.1141**
Stddev	.5	.17	.05	.032	.0007	.0000	.021	.0004	.0006
%RSD	.4087	.6648	.5108	.3849	3.149	8.934	.5321	1.949	.5171
#1	114.1	26.24	10.48	8.253	.0217	.0004	3.966	.0191	.1147
#2	113.7	26.22	10.41	8.219	.0213	.0005	3.925	.0191	.1137
#3	113.2	25.93	10.37	8.190	.0226	.0004	3.951	.0184	.1138

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.413**	**.0033**	**.0739**	**.2266**	**-.0152**	**.1407**	**1.079**
Stddev	.028	.0005	.0011	.0021	.0006	.0009	.002
%RSD	.8293	14.76	1.441	.9074	3.777	.6562	.1755
#1	3.411	.0031	.0735	.2285	-.0154	.1417	1.080
#2	3.386	.0029	.0730	.2244	-.0146	.1403	1.076
#3	3.442	.0038	.0751	.2268	-.0157	.1400	1.079

Zoom In Zoom Out

Sample Name: jc76377-4 Acquired: 10/24/2018 18:15:57 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99602.**	**4572.3**	**4430.0**	**10569.**
Stddev	640.	36.4	19.0	33.
%RSD	.64224	.79635	.42978	.30889
#1	99557.	4547.5	4412.8	10544.
#2	100260.	4555.3	4450.5	10606.
#3	98986.	4614.1	4426.8	10557.

Zoom In Zoom Out

Sample Name: jc76377-5 Acquired: 10/24/2018 18:21:15 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1644**	**.0020**	**.0008**	**.0244**	**.0924**	**.0362**	**1.579**	**.0487**	**.0017**
Stddev	.0002	.0001	.0001	.0002	.0004	.0006	.006	.0004	.0002
%RSD	.1285	4.640	12.88	.9953	.4505	1.595	.3785	.7391	10.80
#1	.1642	.0021	.0010	.0241	.0921	.0361	1.576	.0485	.0018
#2	.1646	.0019	.0008	.0246	.0922	.0357	1.575	.0491	.0019
#3	.1644	.0019	.0008	.0244	.0929	.0369	1.586	.0484	.0015

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0918**	**.1291**	**.0200**	**.0016**	**.0222**	**.0007**	**.0013**	**36.20**	**3.903**
Stddev	.0002	.0011	.0001	.0018	.0008	.0014	.0010	.01	.012
%RSD	.1795	.8883	.3707	115.2	3.493	200.7	78.33	.0230	.3126
#1	.0917	.1281	.0199	.0032	.0219	.0022	.0003	36.21	3.901
#2	.0917	.1303	.0200	-.0004	.0230	-.0004	.0023	36.20	3.916
#3	.0920	.1290	.0200	.0018	.0215	.0002	.0012	36.19	3.892

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**75.96**	**9.751**	**3.893**	**2.203**	**.0139**	**.0002**	**2.264**	**.0143**	**.0374**
Stddev	.03	.036	.015	.010	.0005	.0001	.006	.0007	.0001
%RSD	.0360	.3731	.3724	.4440	3.265	64.80	.2848	5.086	.3423
#1	75.93	9.782	3.879	2.197	.0143	.0002	2.256	.0149	.0373
#2	75.99	9.711	3.908	2.214	.0141	.0000	2.269	.0145	.0375
#3	75.97	9.761	3.892	2.197	.0134	.0002	2.266	.0135	.0373

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.220**	**.0006**	**.0316**	**.1497**	**-.0025**	**.0513**	**1.258**
Stddev	.005	.0008	.0001	.0022	.0008	.0006	.016
%RSD	.4034	142.7	.3169	1.465	33.09	1.076	1.235
#1	1.216	.0008	.0317	.1472	-.0021	.0511	1.241
#2	1.217	.0012	.0315	.1507	-.0034	.0509	1.263
#3	1.225	-.0003	.0317	.1512	-.0019	.0520	1.271

Zoom In Zoom Out

Sample Name: jc76377-5 Acquired: 10/24/2018 18:21:15 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99281.**	**4601.9**	**4431.1**	**10803.**
Stddev	430.	8.3	24.1	55.
%RSD	.43322	.17965	.54309	.51269
#1	99596.	4611.1	4458.6	10866.
#2	99455.	4595.2	4420.5	10767.
#3	98791.	4599.3	4414.1	10774.

Zoom In Zoom Out

Sample Name: jc76377-6 Acquired: 10/24/2018 18:26:37 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2511**	**.0033**	**.0015**	**.0587**	**.5563**	**.1311**	**1.123**	**.1367**	**.0026**
Stddev	.0005	.0000	.0001	.0002	.0009	.0007	.003	.0009	.0003
%RSD	.1974	.7157	3.697	.3596	.1551	.5402	.2298	.6804	13.27
#1	.2517	.0033	.0015	.0589	.5573	.1318	1.125	.1376	.0022
#2	.2507	.0033	.0016	.0588	.5560	.1304	1.123	.1368	.0029
#3	.2509	.0033	.0016	.0585	.5556	.1312	1.120	.1357	.0028

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1357**	**.4216**	**.0305**	**.0033**	**.0729**	**.0025**	**-.0005**	**68.90**	**11.16**
Stddev	.0005	.0013	.0015	.0015	.0011	.0010	.0006	.12	.09
%RSD	.3771	.2977	5.077	46.62	1.551	39.11	122.1	.1689	.7755
#1	.1362	.4218	.0319	.0049	.0728	.0036	.0002	68.96	11.26
#2	.1357	.4228	.0288	.0019	.0742	.0023	-.0008	68.97	11.13
#3	.1352	.4203	.0308	.0032	.0719	.0016	-.0010	68.76	11.10

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**147.6**	**27.56**	**11.14**	**3.316**	**.0230**	**.0008**	**4.779**	**.0148**	**.0748**
Stddev	.4	.02	.05	.008	.0005	.0003	.008	.0007	.0003
%RSD	.2613	.0852	.4433	.2385	2.107	33.27	.1743	4.697	.4451
#1	147.7	27.59	11.16	3.318	.0225	.0008	4.782	.0140	.0751
#2	147.8	27.55	11.17	3.324	.0234	.0006	4.786	.0152	.0747
#3	147.1	27.55	11.08	3.308	.0230	.0011	4.770	.0152	.0744

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.378**	**.0020**	**.0660**	**.1745**	**-.0031**	**.1186**	**3.911**
Stddev	.002	.0007	.0002	.0014	.0001	.0010	.009
%RSD	.1534	36.48	.3651	.8178	3.260	.8244	.2339
#1	1.381	.0028	.0663	.1760	-.0032	.1195	3.919
#2	1.377	.0013	.0660	.1732	-.0030	.1175	3.914
#3	1.377	.0020	.0658	.1741	-.0032	.1187	3.901

Zoom In Zoom Out

Sample Name: jc76377-6 Acquired: 10/24/2018 18:26:37 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99932.**	**4624.6**	**4452.4**	**10630.**
Stddev	242.	13.7	5.9	18.
%RSD	.24204	.29660	.13171	.16945
#1	99683.	4620.8	4445.6	10611.
#2	99947.	4613.2	4455.5	10631.
#3	100170.	4639.9	4456.0	10647.

Zoom In Zoom Out

Sample Name: jc76377-7 Acquired: 10/24/2018 18:31:55 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3080**	**.0037**	**.0014**	**.0557**	**.1376**	**.1329**	**1.033**	**.1400**	**.0025**
Stddev	.0010	.0001	.0001	.0003	.0009	.0016	.007	.0001	.0006
%RSD	.3114	2.127	9.584	.5766	.6419	1.170	.6536	.0884	22.43
#1	.3072	.0037	.0016	.0554	.1378	.1330	1.033	.1401	.0030
#2	.3090	.0036	.0013	.0560	.1366	.1313	1.026	.1399	.0027
#3	.3076	.0037	.0014	.0557	.1384	.1344	1.040	.1399	.0019

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1346**	**.3913**	**.0222**	**.0037**	**.0684**	**.0022**	**.0002**	**70.14**	**9.316**
Stddev	.0006	.0010	.0003	.0008	.0005	.0005	.0007	.12	.028
%RSD	.4535	.2439	1.357	22.79	.7253	24.49	411.0	.1650	.3033
#1	.1345	.3908	.0222	.0027	.0679	.0025	-.0005	70.24	9.337
#2	.1340	.3924	.0220	.0043	.0688	.0016	.0001	70.16	9.328
#3	.1352	.3907	.0226	.0040	.0686	.0025	.0009	70.01	9.284

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**131.3**	**28.21**	**9.939**	**4.816**	**.0205**	**-.0003**	**3.234**	**.0145**	**.0621**
Stddev	.3	.18	.024	.012	.0001	.0001	.003	.0005	.0002
%RSD	.2176	.6307	.2386	.2465	.5533	21.23	.0826	3.587	.3120
#1	131.6	28.39	9.960	4.824	.0206	-.0002	3.235	.0145	.0619
#2	131.3	28.19	9.944	4.822	.0206	-.0002	3.235	.0149	.0622
#3	131.0	28.03	9.913	4.803	.0204	-.0003	3.230	.0139	.0623

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.299**	**.0020**	**.0683**	**.4927**	**-.0043**	**.1381**	**3.134**
Stddev	.009	.0001	.0006	.0038	.0008	.0004	.005
%RSD	.6997	3.253	.8735	.7717	18.20	.2830	.1463
#1	1.299	.0019	.0682	.4949	-.0044	.1384	3.129
#2	1.290	.0020	.0678	.4949	-.0051	.1376	3.138
#3	1.308	.0020	.0690	.4883	-.0035	.1382	3.135

Zoom In Zoom Out

Sample Name: jc76377-7 Acquired: 10/24/2018 18:31:55 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100730.**	**4619.8**	**4474.5**	**10650.**
Stddev	626.	25.9	7.4	15.
%RSD	.62115	.55968	.16469	.14142
#1	100810.	4593.7	4471.0	10648.
#2	101310.	4620.3	4469.6	10636.
#3	100070.	4645.4	4483.0	10666.

Zoom In Zoom Out

Sample Name: jc76377-8 Acquired: 10/24/2018 18:37:13 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3779**	**.0039**	**.0012**	**.0557**	**.1292**	**.0839**	**.9751**	**.1108**	**.0026**
Stddev	.0012	.0001	.0001	.0001	.0013	.0003	.0070	.0001	.0003
%RSD	.3284	1.703	6.403	.2338	.9906	.3303	.7151	.1299	10.03
#1	.3785	.0039	.0011	.0558	.1303	.0841	.9829	.1107	.0023
#2	.3764	.0039	.0012	.0556	.1278	.0836	.9693	.1109	.0027
#3	.3786	.0038	.0013	.0556	.1295	.0840	.9733	.1109	.0028

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2126**	**.2558**	**.0264**	**.0050**	**.0684**	**.0017**	**.0008**	**83.24**	**5.709**
Stddev	.0013	.0004	.0008	.0005	.0014	.0005	.0006	.21	.015
%RSD	.6210	.1414	3.139	10.74	2.021	32.57	81.16	.2576	.2655
#1	.2142	.2562	.0256	.0050	.0679	.0019	.0014	83.02	5.696
#2	.2117	.2556	.0264	.0055	.0673	.0020	.0008	83.25	5.707
#3	.2120	.2557	.0273	.0045	.0699	.0010	.0001	83.45	5.726

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**116.0**	**20.80**	**8.498**	**4.891**	**.0257**	**.0002**	**3.792**	**.0166**	**.0565**
Stddev	.2	.11	.028	.019	.0001	.0003	.012	.0004	.0001
%RSD	.1622	.5152	.3249	.3847	.3571	229.4	.3248	2.302	.2417
#1	115.9	20.88	8.472	4.889	.0257	.0004	3.804	.0167	.0564
#2	116.0	20.68	8.527	4.873	.0255	-.0002	3.793	.0169	.0564
#3	116.2	20.84	8.494	4.910	.0257	.0003	3.779	.0162	.0566

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.505**	**.0018**	**.0637**	**2.257**	**-.0088**	**.1004**	**1.864**
Stddev	.017	.0005	.0004	.010	.0007	.0013	.006
%RSD	.6771	27.88	.6609	.4420	8.044	1.269	.3135
#1	2.524	.0014	.0642	2.246	-.0084	.1006	1.858
#2	2.491	.0024	.0634	2.259	-.0084	.1016	1.865
#3	2.501	.0018	.0635	2.265	-.0096	.0990	1.869

Zoom In Zoom Out

Sample Name: jc76377-8 Acquired: 10/24/2018 18:37:13 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101090.**	**4683.9**	**4508.6**	**10641.**
Stddev	682.	17.0	4.1	6.
%RSD	.67445	.36374	.09127	.05565
#1	100330.	4703.4	4505.9	10636.
#2	101650.	4675.8	4506.5	10638.
#3	101290.	4672.4	4513.3	10647.

Zoom In Zoom Out

Sample Name: jc76377-9 Acquired: 10/24/2018 18:42:27 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2571**	**.0033**	**.0016**	**.0599**	**.1017**	**.1043**	**2.478**	**.1244**	**.0029**
Stddev	.0009	.0001	.0001	.0003	.0002	.0010	.021	.0009	.0005
%RSD	.3421	1.887	7.951	.5489	.1633	.9861	.8462	.7039	15.93
#1	.2581	.0032	.0017	.0601	.1016	.1040	2.466	.1237	.0029
#2	.2567	.0033	.0014	.0600	.1019	.1034	2.466	.1241	.0033
#3	.2565	.0032	.0017	.0595	.1016	.1054	2.502	.1254	.0024

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1329**	**.3648**	**.0249**	**.0024**	**.0598**	**.0038**	**.0004**	**82.40**	**6.361**
Stddev	.0007	.0006	.0003	.0019	.0005	.0020	.0014	.07	.027
%RSD	.4973	.1768	1.221	78.77	.7614	52.27	384.7	.0813	.4205
#1	.1326	.3646	.0246	.0042	.0593	.0017	-.0008	82.48	6.377
#2	.1324	.3643	.0249	.0026	.0600	.0040	.0000	82.38	6.376
#3	.1336	.3655	.0252	.0004	.0602	.0057	.0020	82.35	6.330

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**145.6**	**27.72**	**8.227**	**4.350**	**.0185**	**-.0003**	**2.009**	**.0141**	**.0526**
Stddev	.1	.07	.004	.008	.0007	.0001	.007	.0008	.0002
%RSD	.0532	.2523	.0540	.1754	3.851	20.88	.3548	5.727	.3429
#1	145.6	27.65	8.231	4.359	.0191	-.0002	2.017	.0145	.0528
#2	145.7	27.79	8.228	4.344	.0177	-.0003	2.008	.0145	.0524
#3	145.6	27.72	8.222	4.349	.0187	-.0003	2.003	.0131	.0527

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.275**	**.0041**	**.0620**	**.5167**	**-.0014**	**.1301**	**3.029**
Stddev	.006	.0013	.0004	.0028	.0013	.0008	.002
%RSD	.4662	32.17	.7118	.5358	89.72	.6050	.0581
#1	1.273	.0051	.0616	.5142	-.0011	.1309	3.028
#2	1.270	.0026	.0619	.5161	-.0028	.1302	3.028
#3	1.282	.0046	.0625	.5197	-.0003	.1293	3.031

Zoom In Zoom Out

Sample Name: jc76377-9 Acquired: 10/24/2018 18:42:27 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99981.**	**4633.8**	**4428.7**	**10637.**
Stddev	466.	6.0	5.7	18.
%RSD	.46603	.12849	.12807	.16678
#1	100200.	4632.1	4426.0	10617.
#2	100290.	4628.8	4424.9	10644.
#3	99445.	4640.4	4435.3	10651.

Zoom In Zoom Out

Sample Name: jc76377-10 Acquired: 10/24/2018 18:47:51 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2539**	**.0031**	**.0015**	**.0580**	**.0932**	**.1032**	**3.218**	**.1180**	**.0028**
Stddev	.0012	.0001	.0000	.0002	.0012	.0009	.021	.0004	.0001
%RSD	.4843	2.170	1.958	.2717	1.301	.8804	.6561	.3783	4.297
#1	.2551	.0031	.0015	.0579	.0936	.1035	3.229	.1184	.0028
#2	.2526	.0030	.0015	.0582	.0919	.1021	3.193	.1175	.0030
#3	.2539	.0030	.0015	.0580	.0942	.1039	3.230	.1180	.0027

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1223**	**.3431**	**.0241**	**.0019**	**.0525**	**.0036**	**.0011**	**76.45**	**7.618**
Stddev	.0008	.0004	.0008	.0025	.0007	.0018	.0009	.18	.026
%RSD	.6288	.1061	3.516	132.8	1.368	50.84	78.58	.2347	.3361
#1	.1222	.3427	.0249	-.0003	.0532	.0023	.0016	76.58	7.635
#2	.1215	.3434	.0232	.0047	.0518	.0058	.0001	76.25	7.588
#3	.1231	.3432	.0240	.0013	.0526	.0028	.0017	76.54	7.629

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**133.6**	**25.76**	**8.394**	**3.331**	**.0206**	**-.0000**	**5.006**	**.0150**	**.0503**
Stddev	.4	.05	.036	.003	.0008	.0004	.005	.0006	.0002
%RSD	.2626	.1968	.4347	.1031	3.785	944.8	.0970	4.069	.4146
#1	133.7	25.81	8.415	3.331	.0201	.0003	5.010	.0144	.0505
#2	133.2	25.71	8.352	3.327	.0215	-.0005	5.001	.0149	.0501
#3	133.9	25.77	8.416	3.334	.0202	.0001	5.008	.0157	.0505

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.232**	**.0021**	**.0548**	**1.341**	**-.0025**	**.1192**	**3.176**
Stddev	.008	.0010	.0006	.007	.0016	.0010	.004
%RSD	.6456	45.16	1.066	.5032	66.18	.8394	.1138
#1	1.234	.0024	.0551	1.346	-.0042	.1202	3.172
#2	1.223	.0011	.0541	1.333	-.0010	.1192	3.176
#3	1.239	.0029	.0552	1.344	-.0021	.1182	3.179

Zoom In Zoom Out

Sample Name: jc76377-10 Acquired: 10/24/2018 18:47:51 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99941.**	**4630.1**	**4435.1**	**10648.**
Stddev	761.	12.1	3.7	11.
%RSD	.76142	.26209	.08396	.09984
#1	99733.	4639.4	4438.7	10637.
#2	100780.	4634.4	4435.3	10657.
#3	99306.	4616.4	4431.2	10651.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 18:53:16 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.944**	**2.059**	**1.996**	**2.019**	**2.023**	**1.984**	**2.069**	**2.034**	**.2438**
Stddev	.002	.001	.005	.005	.003	.006	.004	.005	.0010
%RSD	.0878	.0481	.2582	.2446	.1422	.3193	.1704	.2466	.4178
#1	1.943	2.060	1.997	2.017	2.025	1.981	2.069	2.033	.2444
#2	1.945	2.059	2.001	2.024	2.020	1.980	2.065	2.039	.2427
#3	1.942	2.058	1.991	2.014	2.026	1.991	2.072	2.030	.2444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.016**	**2.071**	**1.988**	**2.027**	**2.044**	**2.008**	**1.988**	**39.71**	**39.88**
Stddev	.004	.010	.008	.004	.003	.002	.003	.03	.04
%RSD	.2127	.4779	.3971	.2054	.1530	.1021	.1716	.0777	.1000
#1	2.017	2.068	1.993	2.028	2.044	2.009	1.989	39.71	39.86
#2	2.011	2.082	1.993	2.031	2.048	2.010	1.990	39.74	39.85
#3	2.019	2.063	1.979	2.023	2.041	2.006	1.984	39.68	39.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.01**	**39.83**	**38.37**	**39.43**	**2.020**	**2.007**	**5.140**	**2.030**	**1.977**
Stddev	.05	.12	.04	.03	.000	.004	.009	.006	.003
%RSD	.1222	.2976	.1074	.0837	.0208	.2160	.1777	.2981	.1250
#1	40.00	39.93	38.32	39.43	2.020	2.009	5.144	2.030	1.978
#2	39.97	39.86	38.40	39.46	2.019	2.011	5.147	2.037	1.978
#3	40.06	39.70	38.37	39.39	2.020	2.003	5.130	2.025	1.974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 18:53:16 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.999**	**1.983**	**2.031**	**1.969**	**1.986**	**1.994**	**2.008**
Stddev	.004	.006	.005	.001	.005	.005	.004
%RSD	.2270	.2920	.2562	.0595	.2356	.2765	.1931
#1	1.999	1.987	2.031	1.969	1.990	1.996	2.008
#2	1.995	1.986	2.026	1.970	1.985	1.999	2.011
#3	2.004	1.976	2.036	1.968	1.981	1.988	2.004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95610.**	**4442.2**	**4245.4**	**10359.**
Stddev	156.	10.2	9.7	17.
%RSD	.16272	.23042	.22790	.15971
#1	95581.	4442.3	4245.1	10365.
#2	95778.	4452.4	4235.9	10341.
#3	95471.	4432.0	4255.2	10372.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 18:58:20 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0002**	**.0000**	**-.0000**	**.0002**	**.0001**	**.0000**	**-.0004**
Stddev	.0001	.0001	.0002	.0003	.0001	.0001	.0000	.0002	.0000
%RSD	47.02	71.38	124.3	996.1	722.1	57.61	11.41	1125.	6.212
#1	.0002	.0000	.0003	-.0002	.0001	.0003	.0001	-.0000	-.0004
#2	.0001	.0002	-.0001	.0004	-.0000	.0002	.0001	-.0001	-.0004
#3	.0003	.0002	.0002	-.0001	-.0001	.0001	.0002	.0002	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0004**	**.0012**	**-.0002**	**-.0005**	**.0011**	**.0001**	**.0132**	**.0004**
Stddev	.0001	.0001	.0008	.0009	.0002	.0015	.0004	.0051	.0021
%RSD	6417.	14.71	69.76	450.7	44.16	134.1	311.5	38.75	496.2
#1	.0000	-.0004	.0011	-.0001	-.0004	-.0003	-.0003	.0158	.0028
#2	.0000	-.0005	.0020	-.0012	-.0007	.0026	.0005	.0165	-.0013
#3	-.0001	-.0004	.0004	.0007	-.0004	.0009	.0002	.0073	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033**	**-.0085**	**-.0066**	**-.0042**	**-.0008**	**.0006**	**-.0011**	**-.0001**	**.0000**
Stddev	.0036	.0248	.0178	.0051	.0006	.0002	.0001	.0004	.0001
%RSD	111.5	292.1	271.4	123.0	75.31	27.35	6.978	331.3	309.5
#1	.0064	-.0368	.0013	-.0096	-.0001	.0008	-.0010	.0003	.0000
#2	.0040	.0020	-.0269	-.0036	-.0010	.0006	-.0011	-.0003	.0001
#3	-.0007	.0094	.0060	.0006	-.0012	.0005	-.0012	-.0003	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 18:58:20 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0003**	**.0001**	**-.0009**	**.0003**	**.0006**	**.0002**
Stddev	.0002	.0004	.0001	.0015	.0004	.0005	.0008
%RSD	93.44	147.0	134.5	166.2	133.4	94.57	356.9
#1	.0002	.0001	.0001	-.0021	.0000	.0008	-.0005
#2	.0000	.0008	.0002	.0008	.0008	-.0000	.0010
#3	.0004	-.0000	-.0000	-.0013	.0001	.0009	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98390.**	**4489.9**	**4389.9**	**11032.**
Stddev	880.	18.7	4.1	4.
%RSD	.89412	.41722	.09339	.03434
#1	97497.	4486.3	4394.5	11032.
#2	98416.	4473.2	4386.5	11028.
#3	99256.	4510.1	4388.8	11036.

Zoom In Zoom Out

Sample Name: jc76377-11 Acquired: 10/24/2018 19:03:53 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4141**	**.0040**	**.0020**	**.0651**	**.1251**	**.1377**	F **9.075**	**.1362**	**.0031**
Stddev	.0006	.0001	.0001	.0003	.0003	.0012	.032	.0005	.0006
%RSD	.1512	1.408	6.407	.3905	.2335	.8488	.3522	.3829	18.73
#1	.4135	.0041	.0020	.0649	.1253	.1379	9.062	.1357	.0028
#2	.4140	.0040	.0018	.0650	.1252	.1387	9.112	.1361	.0027
#3	.4147	.0040	.0021	.0654	.1248	.1364	9.052	.1368	.0037

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1692**	**.3903**	**.0304**	**.0043**	**.2216**	**.0003**	**.0003**	**102.4**	**65.55**
Stddev	.0010	.0005	.0008	.0014	.0013	.0031	.0019	.2	.14
%RSD	.6201	.1330	2.531	32.54	.5943	905.8	732.4	.1595	.2192
#1	.1691	.3906	.0296	.0040	.2230	.0036	.0020	102.4	65.40
#2	.1703	.3897	.0311	.0058	.2215	-.0002	.0006	102.3	65.55
#3	.1682	.3906	.0307	.0031	.2204	-.0024	-.0018	102.6	65.69

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**167.4**	**29.08**	**10.68**	**1.034**	**.0289**	**.0017**	**1.666**	**.0148**	**.1560**
Stddev	.3	.10	.03	.009	.0002	.0003	.012	.0011	.0001
%RSD	.1825	.3484	.3119	.8305	.7843	14.57	.6919	7.411	.0872
#1	167.1	28.97	10.71	1.043	.0290	.0017	1.679	.0159	.1560
#2	167.3	29.15	10.65	1.035	.0290	.0020	1.660	.0147	.1561
#3	167.7	29.13	10.69	1.026	.0286	.0015	1.658	.0137	.1559

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.686**	**.0033**	**.0592**	**5.392**	**-.0001**	**.1396**	**3.921**
Stddev	.006	.0003	.0003	.023	.0011	.0007	.004
%RSD	.3549	10.11	.5914	.4279	1056.	.4724	.1065
#1	1.688	.0029	.0591	5.411	-.0010	.1402	3.924
#2	1.691	.0035	.0596	5.400	.0011	.1389	3.922
#3	1.679	.0035	.0589	5.367	-.0004	.1396	3.916

Zoom In Zoom Out

Sample Name: jc76377-11 Acquired: 10/24/2018 19:03:53 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98684.**	**4603.4**	**4374.7**	**10441.**
Stddev	488.	17.6	6.5	7.
%RSD	.49420	.38322	.14893	.06640
#1	98591.	4619.0	4367.8	10439.
#2	98250.	4606.9	4375.6	10448.
#3	99212.	4584.2	4380.7	10435.

Zoom In Zoom Out

Sample Name: jc76377-12 Acquired: 10/24/2018 19:09:15 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3957**	**.0057**	**.0011**	**.0400**	**.1855**	**.0574**	**1.284**	**.1262**	**.0017**
Stddev	.0005	.0000	.0000	.0005	.0025	.0006	.013	.0006	.0005
%RSD	.1258	.8068	.7452	1.167	1.340	.9853	.9986	.4930	27.19
#1	.3953	.0058	.0011	.0405	.1858	.0577	1.285	.1261	.0015
#2	.3962	.0057	.0011	.0396	.1879	.0577	1.296	.1256	.0013
#3	.3956	.0057	.0011	.0400	.1829	.0567	1.271	.1269	.0022

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2510**	**.3584**	**.0340**	**.0068**	**.1632**	**.0037**	**-.0001**	**113.3**	**16.83**
Stddev	.0027	.0002	.0002	.0006	.0006	.0022	.0013	.1	.04
%RSD	1.059	.0461	.7221	8.598	.3594	60.73	1355.	.1275	.2421
#1	.2511	.3585	.0343	.0074	.1626	.0024	-.0001	113.2	16.87
#2	.2536	.3582	.0338	.0068	.1632	.0062	.0012	113.4	16.80
#3	.2483	.3585	.0340	.0062	.1637	.0024	-.0015	113.2	16.80

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**125.5**	**34.72**	**23.09**	**5.713**	**.1916**	**.0088**	**2.324**	**.0161**	**.9611**
Stddev	.1	.05	.03	.010	.0014	.0002	.004	.0005	.0010
%RSD	.0729	.1496	.1202	.1724	.7464	1.743	.1510	3.226	.1076
#1	125.5	34.69	23.08	5.711	.1908	.0088	2.320	.0155	.9604
#2	125.6	34.69	23.12	5.724	.1907	.0087	2.323	.0166	.9623
#3	125.4	34.78	23.06	5.705	.1933	.0090	2.327	.0161	.9607

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.143**	**.0030**	**.0880**	**51.35**	**-.0064**	**.2640**	**3.817**
Stddev	.021	.0003	.0013	.06	.0003	.0013	.006
%RSD	.9862	11.75	1.439	.1118	5.062	.5048	.1493
#1	2.146	.0026	.0889	51.36	-.0061	.2625	3.817
#2	2.163	.0032	.0886	51.28	-.0068	.2645	3.811
#3	2.121	.0031	.0865	51.40	-.0064	.2650	3.823

Zoom In Zoom Out

Sample Name: jc76377-12 Acquired: 10/24/2018 19:09:15 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100090.**	**4677.2**	**4430.5**	**10478.**
Stddev	1027.	1.8	3.3	7.
%RSD	1.0258	.03858	.07552	.07051
#1	99868.	4678.3	4429.0	10476.
#2	99197.	4675.1	4434.3	10487.
#3	101210.	4678.1	4428.2	10472.

Zoom In Zoom Out

Sample Name: jc76377-13 Acquired: 10/24/2018 19:14:30 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2643**	**.0055**	**.0031**	**.0770**	**.2062**	**.1109**	**3.397**	**.1852**	**.0035**
Stddev	.0024	.0001	.0002	.0002	.0006	.0004	.020	.0003	.0002
%RSD	.9159	1.392	5.265	.2622	.2673	.3306	.5843	.1767	7.017
#1	.2636	.0054	.0033	.0770	.2063	.1107	3.376	.1850	.0034
#2	.2623	.0055	.0030	.0772	.2056	.1107	3.399	.1856	.0034
#3	.2670	.0056	.0030	.0768	.2067	.1113	3.415	.1850	.0038

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2509**	**.5215**	**.0849**	**.0052**	**.1056**	**.0060**	**.0009**	**117.4**	**14.51**
Stddev	.0006	.0025	.0009	.0028	.0005	.0008	.0009	.6	.06
%RSD	.2450	.4818	1.083	54.85	.4936	13.34	98.02	.4842	.4023
#1	.2505	.5237	.0845	.0033	.1052	.0068	.0013	117.3	14.53
#2	.2507	.5220	.0842	.0038	.1062	.0060	.0016	116.9	14.45
#3	.2516	.5187	.0859	.0084	.1055	.0052	-.0001	118.0	14.56

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **242.1**	**44.13**	**25.31**	**10.53**	**.1668**	**.0111**	**2.334**	**.0157**	**.1642**
Stddev	1.0	.18	.17	.05	.0011	.0003	.004	.0006	.0016
%RSD	.3930	.4081	.6559	.4857	.6558	2.634	.1884	3.612	.9815
#1	242.3	44.23	25.33	10.52	.1662	.0111	2.329	.0160	.1639
#2	241.1	43.92	25.14	10.49	.1661	.0114	2.334	.0161	.1628
#3	243.0	44.23	25.47	10.59	.1680	.0108	2.338	.0151	.1660

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.363**	**.0035**	**.1067**	F **158.4**	**.0010**	**.2363**	**2.992**
Stddev	.006	.0012	.0004	.1	.0010	.0021	.005
%RSD	.2560	36.03	.3973	.0898	94.87	.8795	.1600
#1	2.363	.0021	.1066	158.2	.0003	.2352	2.986
#2	2.357	.0044	.1063	158.5	.0006	.2349	2.993
#3	2.369	.0039	.1072	158.4	.0021	.2386	2.996

Zoom In Zoom Out

Sample Name: jc76377-13 Acquired: 10/24/2018 19:14:30 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101230.**	**4700.7**	**4459.1**	**10592.**
Stddev	183.	12.6	6.2	4.
%RSD	.18078	.26745	.13942	.03738
#1	101320.	4690.6	4462.2	10590.
#2	101340.	4714.8	4463.2	10589.
#3	101020.	4696.7	4451.9	10596.

Zoom In Zoom Out

Sample Name: jc76377-14 Acquired: 10/24/2018 19:19:51 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2774**	**.0038**	**.0014**	**.0585**	**.1695**	**.1011**	**1.921**	**.1230**	**.0029**
Stddev	.0005	.0000	.0001	.0002	.0006	.0005	.005	.0008	.0003
%RSD	.1921	1.022	3.683	.3399	.3284	.5168	.2790	.6684	9.980
#1	.2777	.0038	.0014	.0587	.1688	.1016	1.922	.1236	.0026
#2	.2777	.0038	.0014	.0585	.1699	.1006	1.915	.1234	.0032
#3	.2767	.0038	.0015	.0583	.1698	.1012	1.925	.1221	.0029

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1769**	**.2871**	**.0732**	**.0057**	**.0633**	**.0037**	**-.0001**	**68.21**	**17.55**
Stddev	.0007	.0007	.0002	.0029	.0010	.0030	.0012	.08	.02
%RSD	.3816	.2457	.2130	51.31	1.506	80.58	1139.	.1210	.1412
#1	.1773	.2878	.0734	.0026	.0632	.0032	-.0006	68.16	17.55
#2	.1762	.2864	.0731	.0062	.0643	.0068	-.0010	68.17	17.53
#3	.1773	.2872	.0732	.0084	.0624	.0010	.0013	68.31	17.58

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**131.1**	**26.48**	**13.40**	**5.243**	**.0587**	**.0051**	**2.978**	**.0164**	**.1149**
Stddev	.1	.10	.01	.009	.0011	.0001	.009	.0005	.0002
%RSD	.0571	.3601	.0775	.1743	1.922	1.476	.2860	3.191	.1987
#1	131.0	26.51	13.41	5.254	.0582	.0052	2.977	.0161	.1147
#2	131.1	26.37	13.39	5.237	.0600	.0050	2.987	.0170	.1151
#3	131.2	26.55	13.39	5.238	.0580	.0051	2.970	.0162	.1151

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.529**	**.0012**	**.0534**	**68.42**	**-.0059**	**.1185**	**2.275**
Stddev	.009	.0013	.0003	.12	.0020	.0011	.003
%RSD	.3346	109.7	.5355	.1717	34.69	.9394	.1355
#1	2.533	.0009	.0533	68.45	-.0077	.1196	2.271
#2	2.519	.0001	.0532	68.53	-.0037	.1174	2.276
#3	2.535	.0025	.0537	68.30	-.0063	.1187	2.277

Zoom In Zoom Out

Sample Name: jc76377-14 Acquired: 10/24/2018 19:19:51 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101570.**	**4659.1**	**4466.6**	**10709.**
Stddev	295.	11.4	14.4	24.
%RSD	.29055	.24515	.32320	.22054
#1	101450.	4658.4	4470.5	10703.
#2	101900.	4670.8	4450.6	10689.
#3	101350.	4648.0	4478.6	10735.

Zoom In Zoom Out

Sample Name: jc76377-15 Acquired: 10/24/2018 19:25:07 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5139**	**.0055**	**.0020**	**.0632**	**.1896**	**.1516**	**1.186**	**.1851**	**.0026**
Stddev	.0012	.0001	.0003	.0005	.0003	.0004	.002	.0002	.0001
%RSD	.2341	1.091	12.50	.7465	.1809	.2699	.1993	.1197	4.051
#1	.5152	.0055	.0021	.0632	.1893	.1515	1.183	.1851	.0027
#2	.5129	.0054	.0018	.0637	.1896	.1520	1.188	.1853	.0025
#3	.5136	.0056	.0023	.0628	.1900	.1512	1.187	.1848	.0026

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2157**	**.3996**	**.0159**	**.0042**	**.1075**	**.0019**	**.0001**	**80.59**	**18.34**
Stddev	.0008	.0004	.0004	.0018	.0009	.0002	.0007	.18	.04
%RSD	.3762	.1046	2.587	42.73	.8646	8.886	900.2	.2225	.2181
#1	.2151	.3994	.0158	.0046	.1075	.0021	-.0001	80.62	18.32
#2	.2166	.4001	.0155	.0058	.1084	.0018	.0009	80.39	18.32
#3	.2155	.3993	.0163	.0023	.1065	.0018	-.0005	80.75	18.39

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**152.3**	**36.75**	**22.79**	**2.697**	**.0610**	**-.0009**	**2.946**	**.0183**	**.1146**
Stddev	.3	.13	.04	.010	.0008	.0003	.005	.0010	.0002
%RSD	.2135	.3419	.1858	.3702	1.293	31.46	.1546	5.671	.2056
#1	152.3	36.76	22.79	2.708	.0619	-.0011	2.946	.0180	.1149
#2	152.0	36.62	22.75	2.688	.0606	-.0010	2.950	.0194	.1145
#3	152.6	36.87	22.83	2.696	.0604	-.0006	2.941	.0174	.1145

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.053**	**.0031**	**.0673**	**1.202**	**-.0136**	**.1103**	**4.250**
Stddev	.008	.0013	.0006	.000	.0003	.0007	.007
%RSD	.1885	41.57	.9503	.0344	2.115	.6084	.1572
#1	4.045	.0023	.0666	1.202	-.0136	.1109	4.246
#2	4.060	.0045	.0677	1.201	-.0133	.1103	4.257
#3	4.053	.0023	.0677	1.202	-.0138	.1096	4.245

Zoom In Zoom Out

Sample Name: jc76377-15 Acquired: 10/24/2018 19:25:07 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101560.**	**4694.0**	**4465.9**	**10564.**
Stddev	171.	15.9	4.8	9.
%RSD	.16791	.33930	.10783	.08495
#1	101760.	4703.2	4469.9	10565.
#2	101460.	4703.2	4460.5	10554.
#3	101470.	4675.6	4467.2	10572.

Zoom In Zoom Out

Sample Name: jc76377-16 Acquired: 10/24/2018 19:30:22 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5782**	**.0053**	**.0051**	**.0555**	**.1933**	**.1499**	**1.088**	**.1971**	**.0021**
Stddev	.0009	.0001	.0001	.0001	.0008	.0009	.005	.0007	.0004
%RSD	.1634	1.921	2.882	.1091	.4386	.6215	.4407	.3514	16.55
#1	.5790	.0053	.0050	.0554	.1940	.1510	1.093	.1978	.0018
#2	.5772	.0052	.0053	.0555	.1935	.1493	1.088	.1971	.0021
#3	.5786	.0054	.0052	.0556	.1924	.1494	1.084	.1964	.0025

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2336**	**.3882**	**.0141**	**.0044**	**.0877**	**.0024**	**.0004**	**77.66**	**19.41**
Stddev	.0015	.0008	.0011	.0026	.0022	.0016	.0007	.16	.04
%RSD	.6358	.2053	7.806	57.99	2.466	67.52	164.8	.2027	.1802
#1	.2347	.3892	.0143	.0074	.0897	.0020	.0002	77.70	19.38
#2	.2341	.3878	.0129	.0029	.0854	.0041	-.0002	77.49	19.40
#3	.2319	.3878	.0151	.0029	.0880	.0010	.0013	77.80	19.45

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**144.7**	**34.53**	**21.26**	**2.268**	**.0576**	**-.0010**	**3.737**	**.0187**	**.1108**
Stddev	.5	.08	.04	.008	.0003	.0001	.011	.0005	.0001
%RSD	.3164	.2345	.1950	.3714	.5790	13.66	.2947	2.415	.0639
#1	144.7	34.48	21.28	2.275	.0573	-.0008	3.748	.0188	.1109
#2	144.2	34.49	21.21	2.259	.0574	-.0011	3.737	.0190	.1108
#3	145.1	34.63	21.28	2.269	.0579	-.0010	3.726	.0182	.1107

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.873**	**.0026**	**.0696**	**.3489**	**-.0138**	**.1075**	**4.500**
Stddev	.021	.0006	.0003	.0005	.0003	.0003	.013
%RSD	.5364	24.18	.4303	.1334	2.081	.2397	.2906
#1	3.893	.0026	.0700	.3485	-.0141	.1072	4.515
#2	3.874	.0032	.0694	.3494	-.0135	.1075	4.495
#3	3.851	.0020	.0695	.3488	-.0137	.1077	4.490

Zoom In Zoom Out

Sample Name: jc76377-16 Acquired: 10/24/2018 19:30:22 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101760.**	**4754.6**	**4500.4**	**10594.**
Stddev	438.	18.1	13.5	27.
%RSD	.43022	.38122	.30103	.25957
#1	101300.	4766.9	4485.6	10563.
#2	101810.	4763.1	4503.7	10603.
#3	102170.	4733.8	4512.0	10615.

Zoom In
Zoom Out

Sample Name: jc76377-17 Acquired: 10/24/2018 19:35:40 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2607**	**.0035**	**.0014**	**.0510**	**.1470**	**.0923**	**2.350**	**.1231**	**.0025**
Stddev	.0015	.0001	.0001	.0004	.0023	.0015	.034	.0002	.0003
%RSD	.5849	4.170	5.213	.8093	1.579	1.654	1.442	.1874	10.30
#1	.2624	.0035	.0013	.0510	.1479	.0918	2.358	.1229	.0023
#2	.2601	.0033	.0015	.0506	.1487	.0941	2.380	.1233	.0025
#3	.2595	.0036	.0014	.0514	.1443	.0911	2.313	.1232	.0028

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1631**	**.3385**	**.0334**	**.0044**	**.0966**	**.0017**	**.0009**	**78.95**	**17.99**
Stddev	.0023	.0008	.0007	.0020	.0010	.0011	.0004	.47	.05
%RSD	1.424	.2461	2.153	44.73	1.075	63.95	47.67	.5977	.2890
#1	.1637	.3394	.0340	.0044	.0974	.0029	.0013	79.39	18.03
#2	.1651	.3377	.0326	.0024	.0954	.0015	.0010	79.01	18.00
#3	.1605	.3386	.0336	.0064	.0969	.0007	.0004	78.45	17.93

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**128.8**	**28.43**	**13.36**	**2.931**	**.0662**	**.0067**	**3.459**	**.0158**	**.1133**
Stddev	.8	.07	.08	.024	.0003	.0002	.012	.0008	.0007
%RSD	.5990	.2483	.5856	.8153	.4561	3.293	.3462	5.194	.5795
#1	129.5	28.50	13.45	2.955	.0659	.0065	3.473	.0151	.1140
#2	128.9	28.35	13.33	2.929	.0663	.0069	3.451	.0167	.1131
#3	128.0	28.43	13.30	2.908	.0665	.0068	3.454	.0157	.1127

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.875**	**.0021**	**.0665**	**26.79**	**-.0040**	**.1557**	**2.961**
Stddev	.025	.0007	.0014	.06	.0006	.0020	.009
%RSD	1.349	32.42	2.056	.2374	15.67	1.254	.2953
#1	1.880	.0024	.0674	26.84	-.0034	.1579	2.968
#2	1.898	.0013	.0671	26.72	-.0046	.1544	2.951
#3	1.848	.0026	.0649	26.82	-.0039	.1547	2.965

Zoom In
Zoom Out

Sample Name: jc76377-17 Acquired: 10/24/2018 19:35:40 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102110.**	**4645.7**	**4458.4**	**10714.**
Stddev	1429.	15.2	6.3	17.
%RSD	1.3993	.32721	.14068	.15506
#1	101640.	4637.8	4452.0	10696.
#2	100980.	4636.1	4464.6	10729.
#3	103720.	4663.2	4458.5	10718.

Zoom In
Zoom Out

Sample Name: jc76377-18 Acquired: 10/24/2018 19:41:04 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2670**	**.0090**	**.0021**	**.0307**	**.1722**	**.0857**	**1.389**	**.0779**	**.0022**
Stddev	.0006	.0001	.0001	.0003	.0005	.0005	.004	.0003	.0002
%RSD	.2421	.7476	3.545	1.076	.2954	.5471	.3145	.3714	8.715
#1	.2677	.0089	.0021	.0306	.1718	.0858	1.389	.0780	.0020
#2	.2668	.0090	.0020	.0305	.1721	.0852	1.384	.0781	.0024
#3	.2665	.0090	.0022	.0311	.1728	.0861	1.393	.0776	.0021

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2052**	**.4508**	**.0230**	**.0055**	**.0855**	**.0006**	**.0004**	**45.74**	**35.46**
Stddev	.0006	.0023	.0006	.0030	.0012	.0014	.0006	.05	.10
%RSD	.2770	.5060	2.433	55.07	1.436	236.8	159.0	.0993	.2717
#1	.2054	.4497	.0236	.0030	.0861	-.0010	.0001	45.79	35.57
#2	.2046	.4493	.0225	.0045	.0841	.0018	-.0001	45.72	35.39
#3	.2057	.4535	.0230	.0088	.0863	.0010	.0012	45.70	35.42

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**100.7**	**38.07**	**18.63**	**3.084**	**.0200**	**.0133**	**4.250**	**.0212**	**.0835**
Stddev	.2	.19	.05	.007	.0005	.0002	.006	.0005	.0003
%RSD	.2241	.4909	.2883	.2270	2.424	1.346	.1346	2.238	.3727
#1	101.0	38.28	18.69	3.092	.0195	.0131	4.250	.0206	.0836
#2	100.6	37.92	18.59	3.083	.0204	.0134	4.255	.0216	.0837
#3	100.6	38.03	18.60	3.078	.0201	.0134	4.244	.0213	.0831

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.161**	**.0037**	**.0638**	**1.311**	**-.0189**	**.1103**	**3.141**
Stddev	.018	.0014	.0006	.003	.0007	.0011	.002
%RSD	.3501	37.82	.8804	.2536	3.644	1.013	.0634
#1	5.167	.0039	.0633	1.308	-.0182	.1112	3.139
#2	5.141	.0022	.0637	1.310	-.0190	.1108	3.143
#3	5.176	.0050	.0644	1.315	-.0196	.1091	3.140

Zoom In
Zoom Out

Sample Name: jc76377-18 Acquired: 10/24/2018 19:41:04 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102220.**	**4797.4**	**4495.1**	**10569.**
Stddev	372.	12.7	3.4	9.
%RSD	.36436	.26439	.07517	.08546
#1	102110.	4782.9	4498.3	10560.
#2	102630.	4805.9	4495.4	10578.
#3	101910.	4803.6	4491.6	10569.

Zoom In Zoom Out

Sample Name: jc76377-19 Acquired: 10/24/2018 19:46:20 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3019**	**.0042**	**.0013**	**.0235**	**.1203**	**.0945**	**1.425**	**.0705**
Stddev	.0014	.0001	.0000	.0003	.0007	.0005	.005	.0005
%RSD	.4772	1.229	3.258	1.138	.5715	.5029	.3323	.6844
#1	.3034	.0042	.0013	.0234	.1211	.0950	1.431	.0702
#2	.3016	.0042	.0014	.0233	.1199	.0945	1.424	.0704
#3	.3006	.0041	.0013	.0238	.1198	.0941	1.421	.0711

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029**	**.1984**	**.4330**	**.0210**	**.0054**	**.1717**	**.0021**	**-.0002**
Stddev	.0000	.0005	.0014	.0007	.0003	.0017	.0018	.0005
%RSD	.5519	.2327	.3293	3.517	4.659	.9915	84.87	206.7
#1	.0029	.1988	.4339	.0206	.0057	.1717	.0021	.0000
#2	.0029	.1983	.4338	.0207	.0054	.1733	.0004	-.0008
#3	.0029	.1979	.4314	.0219	.0052	.1699	.0040	.0001

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**44.18**	**37.43**	**87.68**	**33.71**	**19.24**	**2.612**	**.0162**	**.0035**
Stddev	.15	.27	.46	.36	.06	.015	.0008	.0001
%RSD	.3473	.7289	.5252	1.072	.3179	.5803	4.815	1.571
#1	44.36	37.67	88.17	33.89	19.30	2.630	.0155	.0036
#2	44.09	37.13	87.25	33.30	19.18	2.601	.0170	.0035
#3	44.10	37.48	87.64	33.96	19.23	2.606	.0160	.0035

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.506**	**.0220**	**.0823**	**5.513**	**.0026**	**.0607**	**.7106**	F **-.0204**
Stddev	.007	.0009	.0005	.021	.0008	.0001	.0025	.0008
%RSD	.1470	4.311	.5528	.3783	29.60	.2082	.3493	3.899
#1	4.511	.0231	.0828	5.533	.0017	.0608	.7079	-.0213
#2	4.509	.0218	.0823	5.513	.0030	.0606	.7128	-.0200
#3	4.499	.0212	.0819	5.492	.0032	.0607	.7111	-.0198

Zoom In Zoom Out

Sample Name: jc76377-19 Acquired: 10/24/2018 19:46:20 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.1082**	**2.821**
Stddev	.0012	.003
%RSD	1.099	.1016
#1	.1080	2.818
#2	.1095	2.824
#3	.1071	2.821

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101260.**	**4664.6**	**4455.7**	**10559.**
Stddev	437.	34.9	4.2	6.
%RSD	.43157	.74870	.09527	.05967
#1	100840.	4643.2	4456.5	10555.
#2	101240.	4704.9	4451.1	10555.
#3	101710.	4645.7	4459.5	10566.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 19:51:38 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.960**	**2.058**	**1.998**	**2.018**	**2.038**	**1.991**	**2.074**	**2.040**	**.2462**
Stddev	.003	.002	.003	.002	.006	.009	.005	.002	.0007
%RSD	.1361	.0973	.1372	.1160	.2753	.4656	.2333	.1168	.2902
#1	1.957	2.057	1.996	2.019	2.043	2.000	2.079	2.041	.2468
#2	1.962	2.060	2.001	2.019	2.038	1.993	2.074	2.042	.2464
#3	1.961	2.057	1.998	2.015	2.032	1.981	2.069	2.038	.2455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.026**	**2.065**	**1.976**	**2.051**	**2.044**	**1.995**	**1.983**	**39.71**	**39.91**
Stddev	.007	.005	.002	.004	.003	.002	.003	.08	.08
%RSD	.3293	.2489	.0804	.1895	.1280	.1046	.1476	.1923	.1890
#1	2.032	2.065	1.975	2.053	2.046	1.995	1.981	39.65	39.94
#2	2.025	2.070	1.978	2.054	2.046	1.997	1.987	39.79	39.97
#3	2.019	2.060	1.975	2.047	2.041	1.993	1.982	39.68	39.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.94**	**39.77**	**38.68**	**39.45**	**2.016**	**2.000**	**5.128**	**2.033**	**1.991**
Stddev	.07	.14	.03	.05	.002	.004	.009	.005	.003
%RSD	.1842	.3540	.0824	.1301	.1128	.2066	.1852	.2321	.1329
#1	39.97	39.93	38.64	39.40	2.017	1.996	5.118	2.029	1.988
#2	39.99	39.70	38.69	39.50	2.013	2.003	5.128	2.038	1.994
#3	39.86	39.67	38.71	39.44	2.016	2.003	5.137	2.031	1.990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 19:51:38 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.009**	**1.986**	**2.029**	**1.956**	**1.986**	**2.005**	**2.002**
Stddev	.007	.000	.008	.009	.005	.006	.003
%RSD	.3559	.0137	.4134	.4678	.2422	.3178	.1261
#1	2.015	1.986	2.037	1.950	1.980	1.998	2.000
#2	2.009	1.986	2.029	1.967	1.988	2.011	2.005
#3	2.001	1.986	2.020	1.952	1.989	2.006	2.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95757.**	**4468.0**	**4291.5**	**10435.**
Stddev	167.	3.0	6.0	6.
%RSD	.17394	.06689	.14036	.05556
#1	95590.	4465.5	4298.0	10435.
#2	95757.	4467.3	4286.2	10429.
#3	95923.	4471.3	4290.2	10441.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 19:58:43 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0003**	**.0001**	**-.0000**	**.0002**	**.0006**	**.0001**	**.0001**	**.0003**
Stddev	.0003	.0001	.0001	.0002	.0000	.0001	.0000	.0000	.0002
%RSD	102.7	45.44	97.25	6312.	11.71	18.27	28.58	35.77	66.08
#1	.0005	.0001	.0000	-.0001	.0003	.0006	.0002	.0002	.0001
#2	-.0000	.0003	.0002	.0002	.0002	.0005	.0001	.0001	.0005
#3	.0002	.0003	.0001	-.0001	.0002	.0007	.0001	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0004**	**.0007**	**-.0001**	**-.0002**	**-.0004**	**-.0013**	**.0066**	**-.0019**
Stddev	.0003	.0002	.0002	.0013	.0006	.0008	.0005	.0067	.0051
%RSD	951.0	41.86	31.79	931.4	262.8	215.8	36.27	101.9	269.4
#1	-.0002	-.0005	.0006	-.0007	-.0006	-.0002	-.0018	.0094	.0031
#2	.0004	-.0002	.0006	-.0012	.0004	.0003	-.0011	-.0011	-.0071
#3	-.0001	-.0006	.0010	.0014	-.0004	-.0013	-.0009	.0115	-.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041**	**.0217**	**-.0128**	**-.0046**	**-.0019**	**-.0005**	**-.0012**	**.0008**	**.0001**
Stddev	.0030	.0194	.0096	.0072	.0004	.0001	.0004	.0001	.0001
%RSD	72.98	89.47	75.14	156.3	20.24	31.18	33.69	8.438	139.4
#1	.0069	.0325	-.0046	-.0054	-.0021	-.0003	-.0009	.0009	.0001
#2	.0045	.0332	-.0233	-.0114	-.0014	-.0006	-.0010	.0009	-.0000
#3	.0009	-.0007	-.0104	.0030	-.0021	-.0005	-.0017	.0008	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 19:58:43 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0004**	**.0001**	**.0004**	**.0006**	**.0006**	**-.0001**
Stddev	.0002	.0003	.0001	.0007	.0006	.0006	.0005
%RSD	78.93	78.66	63.09	178.7	92.05	90.15	788.0
#1	.0002	-.0003	.0002	.0003	.0008	.0002	.0006
#2	.0001	-.0001	.0001	-.0002	-.0000	.0004	-.0004
#3	.0006	-.0007	.0001	.0012	.0011	.0013	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99531.**	**4515.1**	**4410.8**	**11067.**
Stddev	47.	17.6	9.0	10.
%RSD	.04692	.39054	.20455	.09104
#1	99558.	4509.9	4400.7	11055.
#2	99477.	4534.8	4418.1	11074.
#3	99559.	4500.7	4413.6	11071.

Zoom In Zoom Out

Sample Name: jc76382-1 Acquired: 10/24/2018 20:04:16 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **34.17**	**.0004**	**.0120**	**.1757**	**2.153**	F **9.592**	F **8.797**	**2.654**
Stddev	.13	.0000	.0001	.0005	.012	.044	.026	.004
%RSD	.3923	8.207	.8264	.2972	.5739	.4601	.3008	.1475
#1	34.33	.0004	.0121	.1755	2.147	9.586	8.826	2.652
#2	34.07	.0004	.0120	.1753	2.146	9.551	8.774	2.658
#3	34.12	.0005	.0119	.1763	2.168	9.639	8.792	2.651

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	*****	**.0379**	**.8045**	**.2271**	F **-.0069**	**.1729**	F **-.0575**	**.0424**
Stddev	-----	.0005	.0007	.0045	.0008	.0020	.0047	.0041
%RSD	-----	1.392	.0908	1.972	11.38	1.161	8.198	9.643
#1	-----	.0373	.8036	.2322	-.0064	.1718	-.0583	.0456
#2	-----	.0380	.8048	.2251	-.0065	.1752	-.0617	.0437
#3	-----	.0384	.8050	.2239	-.0078	.1717	-.0524	.0378

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**77.18**	**6.458**	F **1687.**	**16.91**	**5.142**	**41.29**	**.0158**	**.5962**
Stddev	.27	.022	12.	.08	.031	.09	.0001	.0029
%RSD	.3445	.3468	.6910	.4813	.6086	.2286	.9221	.4928
#1	77.41	6.476	1699.	16.99	5.149	41.38	.0157	.5947
#2	76.89	6.433	1677.	16.91	5.108	41.19	.0157	.5996
#3	77.23	6.465	1684.	16.83	5.170	41.30	.0160	.5944

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.848**	**.4122**	**.6071**	**.8125**	**.0044**	**.3111**	**15.50**	**.1336**
Stddev	.028	.0047	.0014	.0075	.0002	.0009	.04	.0022
%RSD	.3177	1.141	.2269	.9242	5.732	.2809	.2761	1.670
#1	8.837	.4144	.6076	.8100	.0041	.3117	15.51	.1360
#2	8.880	.4153	.6055	.8065	.0044	.3101	15.54	.1330
#3	8.828	.4068	.6081	.8209	.0046	.3115	15.46	.1317

Zoom In Zoom Out

Sample Name: jc76382-1 Acquired: 10/24/2018 20:04:16 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0100**	**.6329**
Stddev	.0003	.0052
%RSD	3.471	.8204
#1	.0099	.6370
#2	.0104	.6346
#3	.0097	.6270

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**89580.**	**4248.6**	**3770.1**	**11544.**
Stddev	587.	19.7	6.9	15.
%RSD	.65550	.46301	.18217	.13389
#1	89866.	4226.8	3772.8	11551.
#2	89970.	4265.0	3762.3	11526.
#3	88905.	4253.9	3775.3	11554.

Zoom In Zoom Out

Sample Name: jc96377-3conf Acquired: 10/24/2018 20:09:54 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2874**	**.0040**	**.0024**	**.0651**	**.1816**	**.1750**	**2.936**	**.1299**	**.0044**
Stddev	.0008	.0001	.0002	.0001	.0011	.0016	.019	.0006	.0006
%RSD	.2933	2.785	6.204	.1891	.6097	.9397	.6430	.4360	13.80
#1	.2880	.0040	.0023	.0652	.1825	.1769	2.952	.1298	.0037
#2	.2864	.0039	.0025	.0652	.1804	.1738	2.915	.1305	.0049
#3	.2877	.0042	.0025	.0650	.1819	.1744	2.940	.1293	.0046

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2286**	**.3465**	**.0433**	**.0031**	**.1581**	**.0040**	**.0015**	**100.9**	**8.217**
Stddev	.0020	.0011	.0007	.0007	.0020	.0010	.0013	.1	.018
%RSD	.8846	.3136	1.704	23.44	1.247	24.28	86.33	.1008	.2162
#1	.2308	.3456	.0442	.0038	.1594	.0029	.0003	100.8	8.217
#2	.2268	.3477	.0429	.0031	.1591	.0044	.0029	101.0	8.235
#3	.2282	.3461	.0429	.0024	.1558	.0048	.0013	100.9	8.200

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**168.6**	**29.66**	**10.09**	**4.696**	**.0246**	**.0010**	**2.422**	**.0161**	**.1089**
Stddev	.3	.07	.02	.004	.0004	.0003	.010	.0013	.0002
%RSD	.1732	.2386	.2150	.0902	1.775	26.92	.4282	7.770	.1582
#1	168.3	29.73	10.10	4.700	.0251	.0013	2.423	.0176	.1088
#2	168.9	29.64	10.07	4.697	.0244	.0009	2.432	.0152	.1091
#3	168.7	29.59	10.11	4.691	.0243	.0008	2.411	.0157	.1088

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.708**	**.0019**	**.0641**	**.2530**	**-.0027**	**.2294**	**2.862**
Stddev	.012	.0007	.0001	.0010	.0003	.0007	.003
%RSD	.6937	34.31	.2270	.3789	11.33	.3142	.0882
#1	1.720	.0027	.0639	.2527	-.0026	.2290	2.860
#2	1.697	.0015	.0641	.2522	-.0024	.2302	2.861
#3	1.706	.0015	.0642	.2541	-.0030	.2289	2.865

Zoom In Zoom Out

Sample Name: jc96377-3conf Acquired: 10/24/2018 20:09:54 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102220.**	**4678.5**	**4449.3**	**10592.**
Stddev	724.	9.9	4.7	9.
%RSD	.70854	.21204	.10525	.08665
#1	101510.	4689.9	4451.2	10600.
#2	102960.	4671.7	4443.9	10582.
#3	102200.	4674.1	4452.7	10596.

Zoom In Zoom Out

Sample Name: jc96377-4conf Acquired: 10/24/2018 20:15:17 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4174**	**.0024**	**.0010**	**.0383**	**.2198**	**.0940**	**1.084**	**.1090**	**.0031**
Stddev	.0010	.0000	.0002	.0004	.0009	.0013	.007	.0006	.0002
%RSD	.2411	1.583	15.56	.9502	.4026	1.342	.6561	.5067	5.426
#1	.4164	.0024	.0008	.0383	.2202	.0949	1.088	.1090	.0029
#2	.4184	.0024	.0012	.0379	.2205	.0945	1.089	.1084	.0031
#3	.4175	.0024	.0011	.0386	.2188	.0926	1.076	.1095	.0032

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1786**	**.2345**	**.0212**	**.0049**	**.0827**	**-.0002**	**-.0003**	**105.9**	**7.625**
Stddev	.0014	.0002	.0006	.0004	.0020	.0010	.0016	.2	.048
%RSD	.7729	.0728	2.994	7.658	2.454	462.4	460.1	.2262	.6326
#1	.1797	.2345	.0206	.0047	.0832	-.0000	-.0009	105.7	7.570
#2	.1792	.2344	.0219	.0053	.0805	.0007	-.0015	106.2	7.662
#3	.1771	.2347	.0213	.0047	.0845	-.0012	.0014	105.9	7.642

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**113.9**	**25.62**	**10.56**	**8.343**	**.0214**	**-.0001**	**3.892**	**.0185**	**.1168**
Stddev	.5	.06	.04	.023	.0006	.0001	.017	.0008	.0004
%RSD	.4219	.2219	.3789	.2740	2.681	200.4	.4457	4.237	.3329
#1	113.4	25.56	10.53	8.317	.0212	.0001	3.910	.0179	.1164
#2	114.3	25.64	10.60	8.361	.0211	-.0001	3.889	.0182	.1167
#3	114.2	25.67	10.53	8.351	.0221	-.0002	3.876	.0194	.1172

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.441**	**.0023**	**.0744**	**.2311**	**-.0146**	**.1427**	**1.094**
Stddev	.023	.0011	.0003	.0014	.0006	.0011	.002
%RSD	.6681	48.26	.3572	.5858	3.933	.7771	.1394
#1	3.458	.0015	.0746	.2310	-.0140	.1426	1.095
#2	3.451	.0018	.0746	.2298	-.0150	.1417	1.095
#3	3.415	.0036	.0741	.2325	-.0150	.1439	1.092

Zoom In Zoom Out

Sample Name: jc96377-4conf Acquired: 10/24/2018 20:15:17 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99834.**	**4642.7**	**4411.7**	**10542.**
Stddev	676.	28.6	10.4	15.
%RSD	.67696	.61562	.23526	.14373
#1	99418.	4670.8	4401.8	10525.
#2	99471.	4613.7	4410.8	10545.
#3	100610.	4643.7	4422.5	10555.

Zoom In Zoom Out

Sample Name: jc76382-1 Acquired: 10/24/2018 20:20:34 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 20.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.33**	**.0013**	**.0254**	**.2211**	**2.265**	**8.988**	**9.870**	**3.462**	**.0592**
Stddev	.11	.0019	.0040	.0020	.018	.085	.080	.005	.0060
%RSD	.3280	140.3	15.73	.9192	.8029	.9479	.8141	.1463	10.12
#1	33.40	.0018	.0216	.2226	2.265	8.970	9.832	3.458	.0653
#2	33.39	-.0007	.0251	.2220	2.246	8.913	9.815	3.461	.0590
#3	33.20	.0029	.0296	.2188	2.283	9.080	9.962	3.467	.0533

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0143**	**.8410**	**.2224**	**.0265**	**.1884**	**.0449**	**.0399**	**75.69**	**6.571**
Stddev	.0027	.0036	.0148	.0126	.0224	.0132	.0160	.11	.045
%RSD	18.64	.4336	6.636	47.42	11.88	29.47	40.11	.1401	.6923
#1	.0150	.8452	.2062	.0167	.1845	.0585	.0296	75.69	6.572
#2	.0165	.8391	.2257	.0222	.2125	.0443	.0583	75.80	6.526
#3	.0113	.8387	.2352	.0407	.1682	.0320	.0318	75.59	6.617

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2265.**	**17.16**	**3.557**	**39.05**	**-.0443**	**.5608**	**8.726**	**.4170**	**.5970**
Stddev	5.	.31	.155	.17	.0104	.0044	.045	.0112	.0064
%RSD	.2383	1.826	4.358	.4283	23.58	.7883	.5135	2.690	1.069
#1	2271.	17.48	3.424	39.01	-.0513	.5567	8.676	.4155	.5970
#2	2260.	17.14	3.519	39.23	-.0492	.5603	8.762	.4289	.5906
#3	2263.	16.85	3.727	38.90	-.0323	.5655	8.739	.4066	.6033

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8296**	**-.0191**	**.4024**	**15.87**	**.1149**	**.0220**	**.6033**
Stddev	.0074	.0072	.0053	.08	.0112	.0186	.0037
%RSD	.8946	37.82	1.307	.5059	9.735	84.62	.6122
#1	.8210	-.0108	.4084	15.78	.1085	.0240	.6075
#2	.8339	-.0243	.3989	15.93	.1084	.0025	.6017
#3	.8338	-.0221	.3998	15.89	.1278	.0396	.6007

Zoom In Zoom Out

Sample Name: jc76382-1 Acquired: 10/24/2018 20:20:34 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 20.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98712.**	**4506.0**	**4345.0**	**10983.**
Stddev	810.	19.0	5.4	18.
%RSD	.82102	.42209	.12437	.16173
#1	99062.	4487.3	4349.0	10988.
#2	99288.	4525.3	4347.2	10998.
#3	97785.	4505.5	4338.9	10963.

Zoom In Zoom Out

Sample Name: mp9843-b1 Acquired: 10/24/2018 20:25:56 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.873**	**2.017**	**1.909**	**1.929**	**1.954**	**1.934**	**2.005**	**1.950**	**.2375**
Stddev	.006	.008	.005	.002	.012	.016	.012	.002	.0015
%RSD	.3161	.3794	.2433	.1178	.6184	.8199	.6027	.1162	.6291
#1	1.872	2.016	1.914	1.930	1.957	1.940	2.007	1.953	.2373
#2	1.867	2.010	1.908	1.926	1.941	1.916	1.992	1.949	.2361
#3	1.879	2.025	1.905	1.929	1.965	1.947	2.015	1.948	.2390

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.951**	**1.969**	**1.886**	**1.958**	**1.937**	**1.868**	**1.903**	**25.14**	**25.02**
Stddev	.013	.003	.004	.006	.001	.001	.004	.10	.15
%RSD	.6442	.1280	.2017	.3180	.0733	.0428	.2384	.3903	.5959
#1	1.955	1.966	1.888	1.965	1.937	1.869	1.909	25.15	24.97
#2	1.937	1.971	1.889	1.953	1.935	1.869	1.901	25.03	24.90
#3	1.961	1.971	1.882	1.955	1.938	1.867	1.900	25.23	25.19

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.32**	**24.34**	**24.13**	**24.98**	**1.902**	**1.954**	**.0206**	**1.990**	**1.923**
Stddev	.12	.05	.10	.09	.005	.003	.0007	.001	.007
%RSD	.4549	.2091	.4180	.3663	.2846	.1743	3.574	.0616	.3804
#1	25.37	24.33	24.09	25.00	1.908	1.957	.0204	1.991	1.924
#2	25.19	24.29	24.05	24.88	1.898	1.953	.0214	1.990	1.916
#3	25.40	24.39	24.24	25.06	1.900	1.950	.0199	1.989	1.930

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.947**	**1.934**	**1.968**	**1.977**	**-.0095**	**.0002**	**1.933**
Stddev	.012	.003	.013	.006	.0005	.0006	.004
%RSD	.5991	.1577	.6586	.3271	5.729	361.2	.2254
#1	1.951	1.937	1.974	1.981	-.0093	.0002	1.935
#2	1.934	1.935	1.953	1.981	-.0091	.0008	1.936
#3	1.956	1.931	1.977	1.970	-.0102	-.0005	1.928

Zoom In Zoom Out

Sample Name: mp9843-b1 Acquired: 10/24/2018 20:25:56 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95691.**	**4390.4**	**4241.6**	**10427.**
Stddev	572.	26.5	10.1	12.
%RSD	.59790	.60419	.23918	.11590
#1	95530.	4397.4	4230.7	10414.
#2	96327.	4412.7	4243.4	10439.
#3	95217.	4361.0	4250.7	10428.

Zoom In Zoom Out

Sample Name: mp9843-mb1 Acquired: 10/24/2018 20:30:58 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0002**	**.0002**	**-.0000**	**.0009**	**.0029**	**.0003**	**.0003**
Stddev	.0002	.0001	.0001	.0001	.0002	.0002	.0000	.0000
%RSD	45.62	23.53	71.31	316.6	19.23	5.194	6.278	13.03
#1	.0006	.0003	.0003	-.0001	.0011	.0031	.0003	.0003
#2	.0002	.0002	.0000	.0001	.0009	.0029	.0003	.0002
#3	.0005	.0002	.0002	-.0001	.0007	.0028	.0003	.0003

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0001**	**.0016**	**.0001**	F **-.0026**	**-.0005**	**.0025**	**.0006**
Stddev	.0001	.0001	.0001	.0002	.0010	.0012	.0005	.0004
%RSD	23.23	181.8	3.443	169.7	38.41	254.6	21.35	75.80
#1	.0004	.0002	.0015	-.0001	-.0037	-.0018	.0031	.0010
#2	.0007	.0000	.0016	.0001	-.0020	-.0001	.0021	.0002
#3	.0005	-.0000	.0016	.0004	-.0020	.0005	.0023	.0004

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0165**	**.0410**	**.0141**	**.0247**	**-.0177**	**.0381**	**-.0010**	**.0001**
Stddev	.0032	.0045	.0001	.0183	.0135	.0059	.0004	.0004
%RSD	19.37	11.09	1.061	74.27	76.59	15.47	36.33	352.9
#1	.0202	.0370	.0141	.0375	-.0066	.0429	-.0006	.0005
#2	.0149	.0400	.0139	.0328	-.0328	.0399	-.0012	-.0003
#3	.0145	.0460	.0142	.0037	-.0136	.0315	-.0012	.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0108**	**.0249**	**.0002**	**.0014**	**.0019**	**.0020**	**.0457**	**-.0008**
Stddev	.0011	.0004	.0000	.0008	.0003	.0001	.0004	.0005
%RSD	9.890	1.771	19.73	58.31	18.35	6.988	.8911	63.57
#1	.0114	.0244	.0002	.0009	.0019	.0021	.0458	-.0006
#2	.0096	.0250	.0002	.0023	.0022	.0019	.0453	-.0004
#3	.0115	.0253	.0003	.0009	.0015	.0018	.0461	-.0013

Zoom In Zoom Out

Sample Name: mp9843-mb1 Acquired: 10/24/2018 20:30:58 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0009**	**.0244**
Stddev	.0001	.0012
%RSD	12.48	4.749
#1	-.0008	.0255
#2	-.0009	.0232
#3	-.0010	.0247

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99791.**	**4508.7**	**4384.1**	**11042.**
Stddev	677.	18.9	8.2	12.
%RSD	.67802	.42018	.18696	.11303
#1	99221.	4530.0	4387.7	11037.
#2	100540.	4493.6	4389.8	11056.
#3	99614.	4502.5	4374.7	11033.

Zoom In Zoom Out

Sample Name: jc76462-27 Acquired: 10/24/2018 20:36:30 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.597**	**.0126**	**.0148**	**.1344**	**.2784**	**.6874**	**6.239**	**.3295**	**.0047**
Stddev	.002	.0001	.0001	.0004	.0004	.0014	.005	.0001	.0002
%RSD	.1284	.8361	.8395	.3230	.1345	.2048	.0884	.0449	4.155
#1	1.597	.0127	.0147	.1339	.2786	.6868	6.233	.3293	.0045
#2	1.595	.0126	.0149	.1348	.2779	.6864	6.239	.3295	.0049
#3	1.599	.0125	.0150	.1345	.2786	.6890	6.244	.3296	.0046

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3037**	**2.316**	**.0715**	**.0036**	**2.456**	**.0045**	**.0287**	**137.6**	**161.3**
Stddev	.0009	.004	.0008	.0016	.004	.0016	.0006	.1	.7
%RSD	.2885	.1665	1.173	43.91	.1779	35.78	2.210	.0393	.4160
#1	.3027	2.312	.0705	.0036	2.451	.0057	.0286	137.6	161.3
#2	.3044	2.319	.0719	.0020	2.460	.0027	.0294	137.7	161.9
#3	.3040	2.317	.0720	.0052	2.457	.0051	.0282	137.6	160.6

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **200.1**	**50.99**	**11.50**	**3.399**	**.2317**	**.0129**	**4.954**	**.2588**	**.7152**
Stddev	.6	.31	.00	.005	.0011	.0002	.011	.0007	.0009
%RSD	.3047	.6043	.0238	.1384	.4551	1.581	.2157	.2765	.1292
#1	200.1	51.01	11.50	3.404	.2327	.0131	4.943	.2590	.7154
#2	200.7	51.28	11.50	3.398	.2318	.0129	4.963	.2580	.7141
#3	199.5	50.67	11.50	3.395	.2306	.0126	4.957	.2594	.7159

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.668**	**.0165**	**.3685**	**5.002**	**-.0078**	**.1439**	**4.098**
Stddev	.006	.0001	.0007	.012	.0009	.0011	.004
%RSD	.1762	.8987	.1838	.2489	11.29	.7764	.1110
#1	3.664	.0167	.3680	4.988	-.0086	.1452	4.092
#2	3.665	.0165	.3682	5.005	-.0079	.1430	4.099
#3	3.676	.0164	.3693	5.012	-.0068	.1436	4.101

Zoom In Zoom Out

Sample Name: jc76462-27 Acquired: 10/24/2018 20:36:30 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99547.**	**4599.2**	**4350.1**	**10158.**
Stddev	198.	16.6	4.8	9.
%RSD	.19843	.36193	.11069	.08967
#1	99709.	4601.6	4354.8	10168.
#2	99606.	4581.4	4345.2	10150.
#3	99327.	4614.4	4350.3	10155.

Zoom In Zoom Out

Sample Name: jc76462-28 Acquired: 10/24/2018 20:41:49 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.156**	**.0095**	**.0046**	**.1031**	**.2059**	**.3311**	**6.968**	**.1839**	**.0052**
Stddev	.001	.0001	.0001	.0003	.0013	.0015	.051	.0006	.0005
%RSD	.0967	.9780	2.019	.2736	.6184	.4443	.7352	.3172	9.872
#1	1.155	.0094	.0046	.1030	.2058	.3313	6.947	.1845	.0055
#2	1.156	.0096	.0047	.1034	.2048	.3296	6.931	.1833	.0056
#3	1.157	.0095	.0045	.1029	.2073	.3325	7.027	.1839	.0046

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2987**	**1.034**	**.0653**	**.0076**	**.7717**	**.0015**	**.0143**	**173.0**	**66.87**
Stddev	.0021	.003	.0001	.0016	.0056	.0015	.0007	.2	.13
%RSD	.7089	.2645	.2206	20.63	.7195	102.6	4.712	.1170	.1955
#1	.2981	1.031	.0652	.0085	.7653	.0018	.0147	172.9	66.99
#2	.2971	1.034	.0655	.0085	.7748	-.0002	.0148	172.8	66.73
#3	.3011	1.037	.0652	.0058	.7750	.0028	.0136	173.2	66.90

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **206.6**	**42.19**	**18.56**	**13.96**	**.1625**	**.0058**	**3.135**	**.1657**	**.5881**
Stddev	.3	.05	.02	.03	.0011	.0003	.008	.0008	.0005
%RSD	.1490	.1274	.1131	.1989	.6694	5.095	.2688	.4702	.0773
#1	206.8	42.22	18.54	13.93	.1614	.0055	3.143	.1651	.5878
#2	206.2	42.13	18.57	13.96	.1635	.0060	3.136	.1666	.5879
#3	206.7	42.22	18.57	13.99	.1627	.0058	3.126	.1656	.5886

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.401**	**.0066**	**.1852**	**3.384**	**-.0071**	**.1577**	**2.807**
Stddev	.021	.0007	.0014	.018	.0008	.0006	.004
%RSD	.6070	10.55	.7426	.5285	11.04	.3501	.1514
#1	3.400	.0064	.1843	3.365	-.0080	.1583	2.812
#2	3.382	.0059	.1845	3.401	-.0068	.1573	2.806
#3	3.423	.0073	.1868	3.385	-.0065	.1574	2.804

Zoom In Zoom Out

Sample Name: jc76462-28 Acquired: 10/24/2018 20:41:49 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100630.**	**4565.9**	**4415.7**	**10336.**
Stddev	624.	14.0	4.3	7.
%RSD	.62000	.30699	.09726	.07160
#1	100860.	4553.0	4414.8	10342.
#2	101100.	4580.8	4412.0	10328.
#3	99922.	4563.9	4420.4	10338.

Zoom In Zoom Out

Sample Name: mp9770-b1conf Acquired: 10/24/2018 20:47:11 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.899**	**2.026**	**1.939**	**1.941**	**1.995**	**1.985**	**2.042**	**1.966**
Stddev	.004	.006	.003	.003	.024	.026	.023	.003
%RSD	.2370	.3105	.1509	.1345	1.217	1.300	1.132	.1345
#1	1.904	2.032	1.943	1.943	1.967	1.956	2.016	1.968
#2	1.895	2.025	1.938	1.938	2.009	2.004	2.056	1.963
#3	1.898	2.020	1.937	1.942	2.009	1.997	2.055	1.967

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2466**	**1.994**	**1.972**	**1.920**	**1.998**	**1.957**	**1.918**	**1.952**
Stddev	.0026	.024	.003	.003	.004	.002	.001	.001
%RSD	1.048	1.219	.1381	.1360	.1769	.1039	.0701	.0335
#1	.2436	1.966	1.971	1.923	2.002	1.958	1.916	1.952
#2	.2486	2.009	1.970	1.920	1.997	1.955	1.918	1.951
#3	.2475	2.007	1.975	1.917	1.995	1.959	1.919	1.952

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.30**	**24.94**	**25.37**	**24.37**	**24.39**	**25.14**	**1.960**	**1.976**
Stddev	.10	.04	.09	.02	.05	.08	.002	.002
%RSD	.3879	.1656	.3608	.0707	.2009	.3269	.1232	.0800
#1	25.41	24.92	25.47	24.39	24.44	25.23	1.962	1.978
#2	25.23	24.91	25.35	24.37	24.39	25.14	1.957	1.975
#3	25.26	24.98	25.29	24.36	24.35	25.07	1.962	1.975

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0248**	**1.990**	**1.945**	**1.995**	**1.883**	**2.021**	F **-.2189**	**-.0089**
Stddev	.0018	.002	.005	.023	.004	.024	.0004	.0009
%RSD	7.386	.0860	.2469	1.143	.1919	1.190	.1912	10.60
#1	-.0227	1.991	1.951	1.968	1.881	1.994	-.2190	-.0099
#2	-.0257	1.991	1.942	2.009	1.881	2.037	-.2185	-.0082
#3	-.0260	1.988	1.942	2.007	1.887	2.034	-.2193	-.0084

Zoom In Zoom Out

Sample Name: mp9770-b1conf Acquired: 10/24/2018 20:47:11 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0004**	**1.957**
Stddev	.0009	.013
%RSD	232.5	.6487
#1	.0012	1.970
#2	-.0006	1.944
#3	.0006	1.956

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94762.**	**4453.0**	**4240.7**	**10463.**
Stddev	1126.	3.9	2.4	5.
%RSD	1.1887	.08698	.05774	.04598
#1	96062.	4451.4	4238.3	10458.
#2	94145.	4457.4	4240.6	10467.
#3	94079.	4450.1	4243.2	10463.

Zoom In Zoom Out

Sample Name: mp9770-mb1conf Acquired: 10/24/2018 20:52:15 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: water

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0000**	**-.0002**	**.0002**	**.0007**	**.0000**	**-.0003**
Stddev	.0002	.0000	.0002	.0002	.0002	.0001	.0000	.0003
%RSD	106.2	24.02	1482.	111.5	94.94	17.93	8.442	90.33
#1	.0003	.0001	.0001	-.0001	.0004	.0006	.0000	-.0001
#2	.0000	.0001	-.0002	.0000	.0002	.0006	.0000	-.0003
#3	.0001	.0001	.0001	-.0003	-.0000	.0008	.0000	-.0007

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0001**	**-.0001**	**.0005**	F **-.0021**	**-.0011**	**.0015**	**.0005**
Stddev	.0001	.0001	.0001	.0006	.0005	.0006	.0012	.0001
%RSD	54.39	139.0	99.72	128.0	22.44	56.61	80.39	29.87
#1	.0004	.0000	-.0000	-.0002	-.0018	-.0006	.0003	.0005
#2	.0002	-.0001	-.0001	.0009	-.0026	-.0009	.0027	.0006
#3	.0002	-.0000	-.0003	.0008	-.0019	-.0019	.0015	.0003

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**-.0056**	**.0022**	**-.0301**	**-.0312**	**-.0012**	**-.0009**	**.0004**
Stddev	.0040	.0022	.0045	.0055	.0207	.0011	.0005	.0003
%RSD	434.5	39.96	202.4	18.31	66.22	85.69	50.29	77.70
#1	-.0028	-.0032	.0071	-.0342	-.0475	-.0022	-.0005	.0006
#2	.0052	-.0058	.0012	-.0323	-.0080	-.0014	-.0009	.0005
#3	.0004	-.0077	-.0017	-.0239	-.0382	-.0001	-.0014	.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0092**	**.0001**	**.0001**	**.0002**	**.0058**	**.0014**	**.0003**	**-.0003**
Stddev	.0002	.0003	.0001	.0004	.0006	.0001	.0003	.0008
%RSD	2.317	260.5	113.9	186.4	11.09	5.506	90.91	284.7
#1	.0090	-.0002	.0001	.0005	.0065	.0014	.0006	-.0002
#2	.0093	.0003	-.0000	-.0002	.0053	.0014	.0002	-.0012
#3	.0094	.0003	.0001	.0003	.0056	.0013	.0001	.0005

Zoom In Zoom Out

Sample Name: mp9770-mb1conf Acquired: 10/24/2018 20:52:15 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: water

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0005**	**.0004**
Stddev	.0007	.0004
%RSD	134.8	114.0
#1	-.0013	.0009
#2	-.0004	.0001
#3	.0001	.0002

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99343.**	**4492.1**	**4358.7**	**11003.**
Stddev	297.	22.9	3.9	14.
%RSD	.29924	.50936	.08837	.12845
#1	99120.	4468.7	4358.2	11002.
#2	99230.	4514.5	4355.1	10990.
#3	99681.	4493.2	4362.7	11018.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 20:57:48 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.963**	**2.078**	**2.014**	**2.019**	**2.026**	**2.030**	**2.077**	**2.046**	**.2455**
Stddev	.003	.001	.000	.001	.009	.005	.006	.000	.0005
%RSD	.1373	.0319	.0073	.0632	.4687	.2610	.2936	.0082	.2057
#1	1.963	2.078	2.014	2.017	2.037	2.027	2.083	2.046	.2457
#2	1.960	2.078	2.014	2.019	2.024	2.036	2.076	2.047	.2459
#3	1.965	2.079	2.014	2.020	2.018	2.026	2.071	2.046	.2449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.029**	**2.050**	**1.986**	**2.077**	**2.047**	**2.025**	**2.003**	**40.20**	**39.66**
Stddev	.005	.003	.004	.002	.003	.005	.002	.07	.05
%RSD	.2665	.1513	.1868	.0761	.1262	.2447	.1041	.1659	.1321
#1	2.034	2.047	1.983	2.077	2.046	2.020	2.001	40.22	39.70
#2	2.029	2.053	1.990	2.075	2.050	2.030	2.004	40.26	39.69
#3	2.023	2.050	1.985	2.078	2.045	2.024	2.005	40.13	39.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.24**	**38.99**	**38.94**	**40.02**	**2.053**	**2.006**	**5.181**	**2.034**	**2.009**
Stddev	.05	.02	.03	.04	.003	.002	.008	.002	.000
%RSD	.1299	.0547	.0889	.1053	.1372	.0830	.1477	.0959	.0136
#1	40.18	38.98	38.97	39.97	2.051	2.005	5.180	2.032	2.009
#2	40.25	38.98	38.96	40.04	2.056	2.006	5.174	2.035	2.009
#3	40.28	39.01	38.91	40.05	2.053	2.008	5.190	2.035	2.009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 20:57:48 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.003**	**2.006**	**2.052**	**1.983**	**2.014**	**2.045**	**2.018**
Stddev	.005	.004	.005	.004	.002	.004	.002
%RSD	.2416	.2247	.2534	.2011	.0942	.1833	.1201
#1	2.007	2.001	2.056	1.982	2.013	2.041	2.016
#2	2.004	2.008	2.054	1.980	2.014	2.047	2.021
#3	1.998	2.009	2.046	1.987	2.016	2.048	2.017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95246.**	**4430.1**	**4233.6**	**10301.**
Stddev	107.	6.1	1.3	4.
%RSD	.11203	.13750	.03024	.03451
#1	95127.	4426.3	4234.5	10297.
#2	95276.	4426.8	4234.0	10302.
#3	95334.	4437.1	4232.1	10304.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 21:02:53 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**.0001**	**-.0001**	**.0001**	**.0011**	**.0001**	**-.0001**	**.0004**
Stddev	.0003	.0001	.0002	.0003	.0001	.0002	.0000	.0001	.0002
%RSD	240.4	51.39	270.0	289.6	203.5	21.82	11.21	114.6	45.74
#1	.0004	.0001	.0003	-.0003	.0002	.0008	.0002	-.0002	.0003
#2	.0001	.0002	.0001	-.0002	.0001	.0013	.0001	.0000	.0005
#3	-.0002	.0001	-.0001	.0002	-.0001	.0011	.0001	-.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0004**	**.0006**	**-.0014**	**.0000**	**.0002**	**.0004**	**.0153**	**-.0005**
Stddev	.0001	.0001	.0008	.0013	.0002	.0012	.0006	.0031	.0005
%RSD	1359.	37.70	132.7	87.36	1288.	590.2	156.9	20.12	100.6
#1	.0001	-.0004	.0016	-.0015	.0002	.0015	-.0003	.0132	-.0005
#2	-.0001	-.0004	.0002	-.0027	-.0002	-.0005	.0005	.0188	-.0010
#3	.0000	-.0002	.0001	-.0002	-.0000	-.0005	.0009	.0139	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057**	**.0280**	**.0038**	**-.0043**	**-.0001**	**.0004**	**-.0008**	**.0001**	**-.0000**
Stddev	.0015	.0315	.0023	.0039	.0003	.0004	.0003	.0005	.0001
%RSD	25.75	112.3	60.66	90.07	232.3	115.0	33.51	387.5	552.2
#1	.0042	-.0050	.0055	-.0069	.0002	.0008	-.0010	.0006	.0000
#2	.0056	.0576	.0048	-.0061	-.0001	.0004	-.0005	.0002	-.0002
#3	.0071	.0314	.0012	.0002	-.0004	-.0001	-.0010	-.0004	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 21:02:53 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0016**	**.0002**	**.0007**	**.0001**	**.0010**	**-.0007**
Stddev	.0002	.0002	.0001	.0016	.0008	.0002	.0007
%RSD	38.36	11.46	42.93	219.4	512.6	24.22	98.91
#1	.0006	.0016	.0002	.0002	.0006	.0008	-.0011
#2	.0004	.0014	.0002	.0026	.0005	.0009	-.0011
#3	.0003	.0017	.0001	-.0006	-.0007	.0013	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99052.**	**4465.8**	**4397.1**	**11034.**
Stddev	171.	10.4	8.1	18.
%RSD	.17288	.23373	.18411	.16291
#1	99061.	4455.5	4404.0	11055.
#2	99219.	4476.3	4388.2	11021.
#3	98877.	4465.6	4399.2	11027.

Zoom In Zoom Out

Sample Name: jc76113-3 Acquired: 10/24/2018 21:08:28 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1746**	**-.0001**	**.0001**	**.0011**	**.0007**	**.0033**	**1.237**	**.0012**
Stddev	.0003	.0000	.0001	.0002	.0001	.0002	.006	.0000
%RSD	.1549	35.69	77.95	19.45	20.66	5.146	.4677	.6103
#1	.1746	-.0002	.0001	.0012	.0008	.0035	1.240	.0012
#2	.1748	-.0001	.0002	.0008	.0006	.0032	1.240	.0012
#3	.1743	-.0001	.0000	.0012	.0006	.0033	1.230	.0012

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0020**	**-.0006**	**.0015**	F **-.0070**	**-.0017**	**.0005**	**-.0010**
Stddev	.0002	.0001	.0001	.0008	.0020	.0002	.0019	.0012
%RSD	48.29	2.987	13.11	57.74	28.43	14.87	374.8	118.6
#1	.0007	.0019	-.0007	.0021	-.0086	-.0014	-.0015	.0003
#2	.0003	.0020	-.0005	.0005	-.0075	-.0019	.0023	-.0014
#3	.0003	.0019	-.0006	.0017	-.0048	-.0017	.0008	-.0019

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1406**	**39.19**	**.3537**	**4.718**	**7.518**	F **877.0**	**.4725**	**.0148**
Stddev	.0067	.10	.0030	.025	.015	11.3	.0013	.0004
%RSD	4.787	.2648	.8503	.5253	.2025	1.289	.2831	2.658
#1	.1484	39.16	.3572	4.705	7.501	889.9	.4716	.0146
#2	.1366	39.30	.3524	4.703	7.529	872.3	.4740	.0152
#3	.1368	39.11	.3516	4.747	7.525	868.8	.4719	.0145

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.715**	**-.0009**	**.5431**	**.0030**	**.0020**	**.0026**	**4.652**	**-.0006**
Stddev	.018	.0001	.0002	.0000	.0005	.0001	.010	.0004
%RSD	.4986	10.91	.0331	1.203	24.59	3.068	.2096	63.66
#1	3.696	-.0010	.5429	.0030	.0022	.0026	4.644	-.0010
#2	3.732	-.0008	.5432	.0030	.0015	.0025	4.663	-.0007
#3	3.718	-.0009	.5431	.0031	.0024	.0026	4.649	-.0002

Zoom In Zoom Out

Sample Name: jc76113-3 Acquired: 10/24/2018 21:08:28 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0340**	**.1025**
Stddev	.0008	.0005
%RSD	2.420	.5122
#1	.0334	.1019
#2	.0336	.1028
#3	.0349	.1028

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**88077.**	**4475.2**	**3956.9**	**9243.3**
Stddev	436.	10.8	8.4	18.1
%RSD	.49513	.24029	.21321	.19634
#1	87716.	4476.3	3964.1	9253.2
#2	87955.	4464.0	3947.7	9222.4
#3	88562.	4485.4	3959.0	9254.4

Zoom In Zoom Out

Sample Name: jc76113-4 Acquired: 10/24/2018 21:13:59 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0097**	**-.0002**	**.0002**	**-.0005**	**.0008**	**.0019**	**.0087**	**.0005**	**.0006**
Stddev	.0002	.0001	.0001	.0001	.0002	.0002	.0001	.0001	.0001
%RSD	2.211	39.65	59.90	15.50	22.48	11.59	.6737	22.14	12.19
#1	.0094	-.0002	.0001	-.0005	.0010	.0022	.0087	.0005	.0006
#2	.0098	-.0001	.0002	-.0004	.0006	.0019	.0086	.0006	.0005
#3	.0098	-.0001	.0003	-.0005	.0009	.0017	.0087	.0004	.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018**	**-.0021**	**.0008**	**-.0004**	**-.0008**	**.0020**	**-.0003**	**.1172**	**38.93**
Stddev	.0001	.0001	.0009	.0002	.0009	.0008	.0013	.0009	.13
%RSD	7.058	6.878	120.0	57.74	105.1	38.06	408.1	.7821	.3231
#1	.0017	-.0019	-.0000	-.0004	-.0001	.0015	-.0004	.1177	39.07
#2	.0019	-.0022	.0006	-.0001	-.0017	.0016	.0010	.1161	38.90
#3	.0019	-.0021	.0018	-.0005	-.0006	.0029	-.0016	.1177	38.82

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2901**	**14.44**	**5.722**	**102.7**	**.1575**	**.0007**	**10.63**	**-.0006**	**.2665**
Stddev	.0036	.08	.030	.3	.0004	.0001	.03	.0001	.0014
%RSD	1.242	.5843	.5217	.2878	.2350	11.49	.3285	12.36	.5284
#1	.2942	14.40	5.754	102.9	.1579	.0006	10.64	-.0005	.2670
#2	.2880	14.39	5.694	102.8	.1572	.0008	10.59	-.0006	.2676
#3	.2880	14.54	5.719	102.3	.1575	.0007	10.65	-.0006	.2649

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0066**	**.0013**	**.0045**	**43.24**	**-.0021**	**.0126**	**.0393**
Stddev	.0002	.0004	.0001	.19	.0014	.0005	.0005
%RSD	3.651	33.80	2.543	.4457	68.77	3.818	1.226
#1	.0067	.0016	.0046	43.31	-.0005	.0123	.0387
#2	.0067	.0016	.0044	43.02	-.0023	.0124	.0396
#3	.0063	.0008	.0044	43.38	-.0034	.0131	.0395

Zoom In Zoom Out

Sample Name: jc76113-4 Acquired: 10/24/2018 21:13:59 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94347.**	**4422.5**	**4188.8**	**10327.**
Stddev	224.	12.4	15.6	34.
%RSD	.23768	.28091	.37122	.33300
#1	94384.	4408.3	4179.7	10306.
#2	94550.	4428.2	4206.7	10367.
#3	94106.	4431.1	4179.9	10308.

Zoom In Zoom Out

Sample Name: jc76113-5 Acquired: 10/24/2018 21:19:25 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0661**	**-.0001**	**.0005**	**.0282**	**.0029**	**.0085**	**.5023**	**.0201**	**.0006**
Stddev	.0003	.0001	.0001	.0003	.0001	.0005	.0079	.0004	.0001
%RSD	.3907	164.4	23.51	.9317	2.533	5.361	1.571	1.844	24.32
#1	.0660	-.0001	.0004	.0284	.0028	.0088	.5087	.0205	.0007
#2	.0659	-.0001	.0005	.0279	.0030	.0080	.4935	.0197	.0006
#3	.0664	.0000	.0006	.0284	.0029	.0088	.5048	.0200	.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0076**	**.0194**	**.0018**	**-.0009**	**.0010**	**.0018**	**-.0006**	**1.151**	**24.61**
Stddev	.0003	.0002	.0008	.0007	.0007	.0016	.0004	.004	.12
%RSD	3.464	.8907	45.24	72.69	70.31	89.79	61.55	.3552	.5019
#1	.0077	.0196	.0014	-.0013	.0005	.0006	-.0008	1.149	24.59
#2	.0073	.0193	.0012	-.0001	.0007	.0012	-.0002	1.156	24.50
#3	.0078	.0192	.0027	-.0013	.0019	.0036	-.0009	1.149	24.74

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.544**	**1.980**	**7.180**	**F 240.7**	**.2345**	**.0124**	**3.677**	**.0007**	**.1839**
Stddev	.016	.033	.035	1.4	.0005	.0001	.009	.0008	.0006
%RSD	1.002	1.683	.4924	.5807	.2031	.7902	.2596	104.4	.3361
#1	1.535	1.942	7.181	241.2	.2347	.0125	3.685	.0015	.1838
#2	1.535	2.002	7.144	239.2	.2349	.0123	3.666	.0006	.1834
#3	1.562	1.995	7.215	241.8	.2340	.0123	3.680	.0000	.1846

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0246**	**.0011**	**.0051**	**35.07**	**-.0007**	**.0085**	**.2783**
Stddev	.0004	.0003	.0001	.11	.0006	.0004	.0016
%RSD	1.819	24.58	1.614	.3049	86.49	4.604	.5756
#1	.0249	.0014	.0052	35.18	-.0013	.0081	.2802
#2	.0241	.0009	.0050	34.97	-.0001	.0085	.2772
#3	.0249	.0010	.0051	35.05	-.0008	.0089	.2776

Zoom In Zoom Out

Sample Name: jc76113-5 Acquired: 10/24/2018 21:19:25 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94174.**	**4460.1**	**4111.5**	**9941.1**
Stddev	1418.	19.0	7.3	23.0
%RSD	1.5058	.42546	.17830	.23112
#1	93134.	4471.2	4104.4	9916.0
#2	95789.	4470.8	4119.0	9961.1
#3	93598.	4438.1	4111.1	9946.4

Zoom In Zoom Out

Sample Name: jc76113-6 Acquired: 10/24/2018 21:24:57 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0317**	**-.0002**	**.0004**	**.0060**	**.0005**	**.0027**	**.1275**	**.0051**	**.0006**
Stddev	.0002	.0001	.0001	.0002	.0002	.0004	.0005	.0001	.0001
%RSD	.7466	59.82	38.69	3.166	36.15	13.76	.3827	1.946	17.56
#1	.0318	-.0004	.0004	.0060	.0003	.0023	.1277	.0051	.0005
#2	.0314	-.0001	.0002	.0058	.0005	.0030	.1278	.0053	.0007
#3	.0318	-.0002	.0004	.0061	.0007	.0027	.1269	.0051	.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031**	**.0047**	**.0009**	**-.0002**	**-.0007**	**.0016**	**-.0010**	**.5600**	**108.1**
Stddev	.0003	.0002	.0005	.0016	.0006	.0003	.0007	.0144	.3
%RSD	8.308	3.978	54.61	689.7	81.37	18.76	67.83	2.569	.2816
#1	.0032	.0048	.0014	-.0006	-.0012	.0014	-.0002	.5459	108.1
#2	.0032	.0045	.0006	-.0016	-.0000	.0015	-.0016	.5595	108.4
#3	.0028	.0048	.0006	.0015	-.0010	.0020	-.0012	.5746	107.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1814**	**.5845**	**11.28**	**150.9**	**.0659**	**.0102**	**8.642**	**-.0006**	**.9161**
Stddev	.0055	.0183	.02	1.5	.0003	.0000	.003	.0002	.0017
%RSD	3.033	3.133	.2056	1.008	.4590	.4637	.0345	25.17	.1824
#1	.1836	.5889	11.28	151.9	.0663	.0102	8.645	-.0007	.9169
#2	.1751	.6002	11.25	151.6	.0657	.0101	8.639	-.0004	.9142
#3	.1854	.5643	11.30	149.1	.0658	.0102	8.642	-.0007	.9173

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**.0005**	**.0006**	**88.63**	**-.0011**	**.0036**	**.0395**
Stddev	.0003	.0012	.0001	.13	.0010	.0004	.0002
%RSD	10.95	230.9	17.33	.1516	99.68	11.69	.6131
#1	.0025	-.0008	.0007	88.59	-.0006	.0041	.0397
#2	.0023	.0007	.0006	88.51	-.0022	.0033	.0393
#3	.0028	.0017	.0005	88.77	-.0003	.0035	.0393

Zoom In Zoom Out

Sample Name: jc76113-6 Acquired: 10/24/2018 21:24:57 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**92401.**	**4422.5**	**4069.0**	**9933.9**
Stddev	316.	19.1	2.5	13.9
%RSD	.34178	.43118	.06027	.14002
#1	92270.	4420.4	4071.6	9944.2
#2	92171.	4404.6	4066.8	9939.3
#3	92761.	4442.6	4068.5	9918.1

Zoom In Zoom Out

Sample Name: jc76113-1f Acquired: 10/24/2018 21:30:25 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2269**	**-.0001**	**.0000**	**.0000**	**.0031**	**.0041**	**.0193**	**.0013**
Stddev	.0008	.0001	.0003	.0000	.0002	.0000	.0000	.0002
%RSD	.3661	84.38	88840.	108.0	5.249	1.202	.2237	13.62
#1	.2274	-.0001	.0003	.0000	.0033	.0040	.0193	.0014
#2	.2259	-.0000	-.0002	.0000	.0030	.0041	.0193	.0011
#3	.2273	-.0001	-.0000	.0001	.0032	.0040	.0194	.0013

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0114**	**.0013**	**.0004**	F **-.0077**	**-.0007**	**.0011**	**-.0014**
Stddev	.0003	.0003	.0001	.0006	.0017	.0007	.0012	.0012
%RSD	175.7	2.878	7.167	168.5	22.36	95.02	110.9	83.02
#1	-.0001	.0112	.0012	-.0003	-.0058	-.0006	-.0002	-.0012
#2	.0004	.0113	.0014	.0004	-.0080	-.0014	.0012	-.0004
#3	.0002	.0118	.0014	.0010	-.0093	-.0001	.0021	-.0027

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1287**	**22.39**	**1.221**	**2.638**	**7.590**	F **1000.**	**.6405**	**.0092**
Stddev	.0021	.05	.007	.025	.039	2.	.0033	.0004
%RSD	1.609	.2337	.5598	.9540	.5113	.2039	.5110	4.232
#1	.1308	22.36	1.215	2.617	7.545	999.7	.6434	.0092
#2	.1287	22.36	1.219	2.666	7.605	1003.	.6370	.0088
#3	.1267	22.45	1.229	2.632	7.618	998.7	.6412	.0096

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.153**	**-.0007**	**.2924**	**.0366**	**.0011**	**.0232**	**4.033**	**-.0017**
Stddev	.009	.0007	.0002	.0001	.0012	.0001	.019	.0002
%RSD	.2081	96.13	.0652	.3406	107.0	.6070	.4677	13.50
#1	4.160	-.0015	.2927	.0368	.0019	.0231	4.044	-.0019
#2	4.143	-.0004	.2923	.0365	.0015	.0231	4.011	-.0015
#3	4.156	-.0003	.2924	.0367	-.0002	.0233	4.044	-.0017

Zoom In Zoom Out

Sample Name: jc76113-1f Acquired: 10/24/2018 21:30:25 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0886**	**.2090**
Stddev	.0004	.0007
%RSD	.3994	.3208
#1	.0882	.2093
#2	.0887	.2095
#3	.0889	.2083

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**87389.**	**4408.1**	**3938.5**	**9144.8**
Stddev	153.	15.0	5.8	8.2
%RSD	.17530	.34083	.14609	.08962
#1	87378.	4419.4	3934.7	9140.3
#2	87547.	4413.9	3945.1	9154.2
#3	87241.	4391.0	3935.8	9139.8

Zoom In Zoom Out

Sample Name: jc76113-2f Acquired: 10/24/2018 21:35:50 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0305**	**-.0001**	**.0001**	**-.0001**	**.0016**	**.0023**	**.0147**	**.0005**	**.0005**
Stddev	.0003	.0001	.0001	.0002	.0001	.0001	.0001	.0001	.0000
%RSD	.9941	85.26	91.14	197.4	4.184	6.461	.3429	25.60	5.387
#1	.0304	-.0001	.0000	.0001	.0016	.0025	.0147	.0006	.0005
#2	.0303	-.0000	.0001	-.0000	.0016	.0023	.0147	.0004	.0005
#3	.0309	-.0001	.0002	-.0004	.0015	.0022	.0146	.0006	.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0046**	**.0002**	**.0009**	**-.0016**	**-.0014**	**.0006**	**.0008**	**.0528**	**16.76**
Stddev	.0001	.0001	.0002	.0022	.0004	.0012	.0007	.0022	.10
%RSD	2.965	55.84	23.81	142.4	28.00	188.7	92.56	4.071	.6184
#1	.0047	.0001	.0007	-.0017	-.0010	.0017	.0015	.0534	16.85
#2	.0045	.0003	.0011	.0007	-.0017	-.0006	.0009	.0547	16.64
#3	.0047	.0002	.0009	-.0038	-.0014	.0008	.0000	.0505	16.78

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4793**	**2.343**	**3.332**	**192.3**	**.3219**	**.0035**	**8.586**	**.0003**	**.2138**
Stddev	.0052	.045	.066	2.1	.0019	.0001	.021	.0002	.0005
%RSD	1.093	1.924	1.985	1.092	.5843	2.117	.2504	48.43	.2456
#1	.4837	2.394	3.406	194.7	.3217	.0035	8.580	.0005	.2142
#2	.4735	2.307	3.313	191.3	.3238	.0035	8.610	.0004	.2132
#3	.4806	2.328	3.278	190.8	.3200	.0034	8.568	.0002	.2141

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0106**	**.0004**	**.0055**	**12.36**	**-.0012**	**.0249**	**.0806**
Stddev	.0001	.0007	.0000	.00	.0006	.0005	.0006
%RSD	.8127	177.3	.7758	.0242	50.41	2.125	.7558
#1	.0106	-.0004	.0056	12.36	-.0019	.0248	.0810
#2	.0106	.0009	.0055	12.36	-.0009	.0245	.0810
#3	.0105	.0008	.0055	12.36	-.0008	.0255	.0799

Zoom In Zoom Out

Sample Name: jc76113-2f Acquired: 10/24/2018 21:35:50 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**93845.**	**4419.7**	**4181.4**	**10182.**
Stddev	364.	21.4	10.6	11.
%RSD	.38775	.48416	.25345	.10500
#1	93425.	4396.2	4187.3	10185.
#2	94061.	4438.0	4169.2	10170.
#3	94049.	4424.9	4187.7	10191.

Zoom In Zoom Out

Sample Name: jc76113-3f Acquired: 10/24/2018 21:41:23 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1593**	**-.0001**	**.0000**	**.0010**	**.0004**	**.0032**	**1.167**	**.0007**
Stddev	.0003	.0001	.0001	.0001	.0004	.0002	.005	.0002
%RSD	.1973	103.1	155.3	10.60	83.66	5.149	.4299	27.82
#1	.1594	-.0001	.0000	.0011	.0001	.0031	1.161	.0005
#2	.1595	.0000	-.0000	.0010	.0008	.0034	1.168	.0009
#3	.1589	-.0001	.0001	.0009	.0005	.0031	1.171	.0007

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0021**	**-.0004**	**.0015**	F **-.0061**	**-.0013**	**.0016**	**-.0011**
Stddev	.0003	.0001	.0001	.0003	.0010	.0009	.0014	.0009
%RSD	43.74	3.843	29.91	22.32	16.25	69.48	86.15	76.76
#1	.0006	.0020	-.0003	.0019	-.0050	-.0003	.0000	-.0019
#2	.0008	.0021	-.0005	.0012	-.0065	-.0021	.0027	-.0013
#3	.0003	.0020	-.0004	.0016	-.0068	-.0014	.0022	-.0002

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0599**	**35.57**	**.2159**	**4.301**	**6.913**	F **836.6**	**.4684**	**.0131**
Stddev	.0055	.09	.0015	.034	.021	5.6	.0025	.0000
%RSD	9.232	.2591	.7131	.7918	.3057	.6714	.5393	.2474
#1	.0655	35.50	.2173	4.310	6.934	836.0	.4713	.0131
#2	.0544	35.53	.2142	4.329	6.891	842.5	.4664	.0131
#3	.0598	35.67	.2163	4.263	6.913	831.3	.4676	.0131

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.616**	**-.0003**	**.5013**	**.0022**	**.0020**	**.0018**	**3.916**	**-.0008**
Stddev	.027	.0010	.0005	.0001	.0009	.0001	.015	.0007
%RSD	.7516	393.4	.1039	3.983	43.17	3.776	.3756	86.43
#1	3.624	.0009	.5016	.0023	.0031	.0017	3.932	-.0007
#2	3.585	-.0007	.5007	.0021	.0014	.0018	3.903	-.0016
#3	3.638	-.0009	.5017	.0022	.0017	.0017	3.912	-.0002

Zoom In Zoom Out

Sample Name: jc76113-3f Acquired: 10/24/2018 21:41:23 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0424**	**.1115**
Stddev	.0007	.0006
%RSD	1.616	.5262
#1	.0418	.1122
#2	.0431	.1110
#3	.0423	.1114

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**87923.**	**4464.1**	**3977.1**	**9302.0**
Stddev	322.	7.9	24.5	51.5
%RSD	.36621	.17689	.61540	.55376
#1	88294.	4469.2	3967.9	9275.2
#2	87745.	4468.0	4004.9	9361.3
#3	87729.	4455.0	3958.6	9269.4

Zoom In Zoom Out

Sample Name: jc76113-4f Acquired: 10/24/2018 21:46:49 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0096**	**-.0001**	**.0002**	**-.0008**	**.0014**	**.0020**	**.0081**	**.0003**	**.0003**
Stddev	.0003	.0001	.0001	.0003	.0001	.0006	.0001	.0002	.0002
%RSD	3.022	183.2	39.49	31.39	7.250	29.05	1.094	61.35	54.03
#1	.0094	.0000	.0002	-.0008	.0013	.0026	.0082	.0001	.0004
#2	.0093	-.0002	.0002	-.0011	.0015	.0021	.0081	.0004	.0001
#3	.0099	-.0000	.0001	-.0006	.0014	.0014	.0081	.0004	.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**-.0016**	**.0012**	**-.0009**	**.0001**	**.0018**	**-.0005**	**.0996**	**38.50**
Stddev	.0001	.0001	.0005	.0002	.0012	.0004	.0005	.0202	.21
%RSD	5.964	9.194	36.69	21.57	1132.	20.40	116.8	20.24	.5331
#1	.0020	-.0017	.0017	-.0009	.0004	.0014	.0001	.1156	38.72
#2	.0019	-.0014	.0012	-.0007	.0011	.0021	-.0006	.1062	38.31
#3	.0018	-.0015	.0008	-.0011	-.0012	.0020	-.0010	.0770	38.47

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2575**	**14.51**	**5.610**	**101.0**	**.1578**	**.0002**	**10.61**	**-.0004**	**.2648**
Stddev	.0035	.02	.012	.3	.0008	.0002	.05	.0005	.0008
%RSD	1.375	.1261	.2137	.3109	.5149	93.82	.4323	126.3	.3178
#1	.2538	14.53	5.621	101.2	.1576	.0002	10.66	-.0009	.2657
#2	.2579	14.51	5.597	100.7	.1571	.0000	10.59	.0001	.2641
#3	.2609	14.49	5.612	101.2	.1587	.0005	10.58	-.0003	.2647

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060**	**.0001**	**.0020**	**47.77**	**-.0021**	**.0120**	**.0315**
Stddev	.0003	.0003	.0001	.15	.0012	.0011	.0005
%RSD	4.687	194.0	5.678	.3160	57.91	8.851	1.544
#1	.0059	-.0002	.0021	47.94	-.0034	.0108	.0318
#2	.0063	.0004	.0021	47.71	-.0020	.0125	.0309
#3	.0057	.0002	.0019	47.66	-.0010	.0127	.0317

Zoom In Zoom Out

Sample Name: jc76113-4f Acquired: 10/24/2018 21:46:49 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94954.**	**4477.9**	**4126.8**	**10175.**
Stddev	1172.	24.1	18.4	35.
%RSD	1.2344	.53901	.44584	.34187
#1	93867.	4454.2	4105.8	10137.
#2	94800.	4502.4	4140.2	10204.
#3	96196.	4477.3	4134.3	10185.

Zoom In Zoom Out

Sample Name: jc76113-5f Acquired: 10/24/2018 21:52:13 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0631**	**-.0001**	**.0003**	**.0217**	**.0015**	**.0055**	**.4713**	**.0172**
Stddev	.0006	.0000	.0000	.0002	.0000	.0001	.0016	.0003
%RSD	.9286	36.42	15.67	.7250	1.703	2.412	.3351	1.651
#1	.0633	-.0002	.0003	.0216	.0015	.0054	.4724	.0175
#2	.0625	-.0001	.0002	.0219	.0015	.0055	.4695	.0172
#3	.0636	-.0001	.0003	.0216	.0015	.0057	.4721	.0169

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0071**	**.0125**	**.0121**	F **-.0036**	**.0001**	**.0064**	**.0006**
Stddev	.0000	.0002	.0001	.0002	.0007	.0004	.0014	.0005
%RSD	15.99	2.646	.8441	1.949	18.14	660.7	22.14	90.66
#1	.0003	.0071	.0125	.0118	-.0029	.0001	.0049	.0010
#2	.0003	.0070	.0123	.0121	-.0036	-.0004	.0067	-.0000
#3	.0003	.0073	.0125	.0123	-.0042	.0004	.0077	.0007

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5036**	**19.99**	**.2980**	**1.483**	**7.428**	F **252.7**	**.2478**	**.0152**
Stddev	.0042	.01	.0017	.062	.012	3.4	.0012	.0001
%RSD	.8437	.0692	.5806	4.157	.1588	1.358	.5019	.9153
#1	.5066	19.99	.2960	1.412	7.415	256.6	.2492	.0153
#2	.4987	19.98	.2991	1.515	7.439	250.4	.2468	.0151
#3	.5055	20.01	.2988	1.523	7.429	251.0	.2474	.0152

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.074**	**.0014**	**.1723**	**.0153**	**.0202**	**.0059**	**35.71**	**-.0022**
Stddev	.008	.0006	.0001	.0001	.0002	.0002	.09	.0009
%RSD	.2522	44.82	.0731	.8645	1.145	2.651	.2532	40.31
#1	3.081	.0021	.1721	.0151	.0203	.0057	35.79	-.0024
#2	3.075	.0008	.1724	.0154	.0199	.0060	35.72	-.0030
#3	3.065	.0014	.1722	.0152	.0203	.0060	35.61	-.0013

Zoom In Zoom Out

Sample Name: jc76113-5f Acquired: 10/24/2018 21:52:13 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0060**	**.2283**
Stddev	.0003	.0011
%RSD	4.902	.4602
#1	.0061	.2277
#2	.0062	.2295
#3	.0057	.2277

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**93067.**	**4513.0**	**4122.4**	**9959.7**
Stddev	464.	9.3	12.3	17.1
%RSD	.49843	.20595	.29799	.17127
#1	92954.	4522.8	4111.0	9941.7
#2	93577.	4512.1	4120.8	9961.9
#3	92671.	4504.2	4135.4	9975.6

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 21:57:47 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.980**	**2.085**	**2.024**	**2.015**	**2.034**	**2.023**	**2.072**	**2.048**	**.2471**
Stddev	.003	.005	.005	.003	.013	.016	.013	.004	.0016
%RSD	.1599	.2208	.2472	.1616	.6141	.7740	.6210	.2141	.6650
#1	1.980	2.085	2.024	2.018	2.047	2.037	2.083	2.053	.2486
#2	1.977	2.081	2.019	2.013	2.022	2.006	2.058	2.046	.2454
#3	1.983	2.090	2.029	2.012	2.034	2.026	2.074	2.046	.2474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.032**	**2.041**	**1.985**	**2.089**	**2.043**	**2.018**	**2.010**	**40.35**	**39.83**
Stddev	.014	.009	.003	.001	.004	.003	.006	.15	.13
%RSD	.6664	.4267	.1529	.0389	.1968	.1631	.2812	.3755	.3315
#1	2.044	2.051	1.984	2.088	2.041	2.016	2.010	40.35	39.76
#2	2.017	2.035	1.982	2.089	2.047	2.017	2.005	40.19	39.75
#3	2.035	2.037	1.988	2.090	2.039	2.022	2.016	40.49	39.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.97**	**39.15**	**39.21**	**39.58**	**2.061**	**2.009**	**5.207**	**2.034**	**2.024**
Stddev	.09	.14	.08	.05	.002	.004	.008	.006	.004
%RSD	.2343	.3570	.2086	.1193	.1174	.2016	.1458	.3100	.1988
#1	39.89	39.16	39.16	39.59	2.059	2.013	5.203	2.038	2.024
#2	39.93	39.00	39.16	39.53	2.060	2.005	5.202	2.027	2.020
#3	40.07	39.28	39.30	39.63	2.064	2.010	5.215	2.037	2.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 21:57:47 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.008**	**2.007**	**2.035**	**1.997**	**2.022**	**2.063**	**2.021**
Stddev	.014	.003	.014	.004	.004	.003	.004
%RSD	.7097	.1280	.7089	.2164	.2102	.1616	.1808
#1	2.022	2.009	2.048	1.998	2.019	2.060	2.024
#2	1.994	2.004	2.019	1.992	2.021	2.061	2.022
#3	2.008	2.009	2.037	2.000	2.027	2.067	2.017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95380.**	**4399.5**	**4229.8**	**10308.**
Stddev	616.	12.0	3.6	6.
%RSD	.64607	.27335	.08536	.06017
#1	94828.	4410.9	4229.2	10301.
#2	96045.	4400.7	4233.7	10314.
#3	95268.	4386.9	4226.5	10308.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 22:02:51 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0002**	**-.0000**	**.0001**	**.0008**	**.0001**	**-.0000**	**.0004**
Stddev	.0001	.0000	.0002	.0004	.0001	.0003	.0000	.0002	.0001
%RSD	61.10	29.18	105.6	3716.	262.7	42.03	10.91	427.1	20.38
#1	.0003	.0001	.0003	.0000	-.0001	.0011	.0001	.0000	.0005
#2	.0001	.0002	-.0000	.0003	.0002	.0008	.0001	.0001	.0003
#3	.0003	.0001	.0003	-.0004	.0000	.0004	.0001	-.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0003**	**.0003**	**-.0003**	**.0001**	**.0002**	**.0004**	**.0072**	**.0001**
Stddev	.0002	.0001	.0006	.0016	.0006	.0012	.0009	.0028	.0045
%RSD	364.3	23.74	195.5	566.2	536.5	720.0	229.4	38.41	7483.
#1	-.0001	-.0002	-.0002	-.0008	.0005	.0006	.0010	.0076	-.0048
#2	.0003	-.0003	.0010	.0015	-.0006	.0011	.0007	.0097	.0011
#3	-.0001	-.0004	.0002	-.0015	.0005	-.0012	-.0006	.0042	.0039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034**	**-.0143**	**.0036**	**.1071**	**-.0009**	**.0002**	**-.0011**	**.0003**	**.0000**
Stddev	.0031	.0227	.0248	.0068	.0004	.0005	.0002	.0007	.0002
%RSD	91.20	158.9	687.1	6.342	41.59	219.5	19.50	239.9	442.3
#1	.0034	.0045	.0136	.1107	-.0007	.0008	-.0013	.0005	.0000
#2	.0003	-.0396	-.0246	.1113	-.0007	.0001	-.0012	-.0005	.0002
#3	.0066	-.0079	.0218	.0992	-.0014	-.0002	-.0009	.0009	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 22:02:51 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0007**	**.0002**	**.0011**	**-.0005**	**.0008**	**-.0010**
Stddev	.0002	.0003	.0001	.0016	.0006	.0007	.0005
%RSD	114.3	38.26	22.99	146.4	135.3	89.79	48.34
#1	.0003	.0010	.0002	.0015	-.0008	.0005	-.0010
#2	.0004	.0006	.0002	.0024	-.0009	.0003	-.0014
#3	-.0001	.0005	.0003	-.0007	.0003	.0016	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99423.**	**4498.3**	**4368.9**	**10995.**
Stddev	1322.	62.6	9.2	14.
%RSD	1.3292	1.3918	.21140	.12999
#1	97968.	4426.0	4363.7	10982.
#2	99750.	4535.0	4363.5	11010.
#3	100550.	4533.8	4379.6	10992.

Zoom In Zoom Out

Sample Name: jc76113-6f Acquired: 10/24/2018 22:08:25 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0300**	**-.0003**	**.0002**	**.0055**	**.0002**	**.0042**	**.1029**	**.0053**
Stddev	.0003	.0001	.0002	.0002	.0003	.0006	.0023	.0001
%RSD	.8449	37.06	88.72	2.900	123.7	13.80	2.213	2.146
#1	.0300	-.0004	.0001	.0057	-.0001	.0036	.1003	.0052
#2	.0303	-.0003	.0001	.0054	.0002	.0043	.1043	.0053
#3	.0298	-.0002	.0004	.0055	.0005	.0047	.1042	.0054

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0029**	**.0049**	**.0015**	F **-.0023**	**-.0006**	**.0010**	**-.0002**
Stddev	.0004	.0002	.0002	.0003	.0009	.0003	.0009	.0009
%RSD	61.43	7.306	3.923	21.07	39.57	50.69	88.52	464.1
#1	.0008	.0026	.0050	.0018	-.0031	-.0008	.0011	-.0001
#2	.0002	.0030	.0050	.0014	-.0025	-.0006	.0001	.0007
#3	.0009	.0030	.0047	.0012	-.0013	-.0003	.0018	-.0012

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4862**	**103.5**	**.0849**	**.5607**	**10.97**	**146.4**	**.0625**	**.0108**
Stddev	.0039	.3	.0011	.0101	.00	1.5	.0009	.0003
%RSD	.7996	.3316	1.266	1.808	.0045	1.018	1.397	2.973
#1	.4820	103.1	.0850	.5561	10.97	147.0	.0631	.0106
#2	.4869	103.6	.0859	.5537	10.97	147.5	.0615	.0106
#3	.4896	103.8	.0837	.5724	10.97	144.7	.0628	.0112

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.315**	**-.0006**	**.8860**	**.0016**	**.0012**	**.0016**	**95.90**	**-.0016**
Stddev	.019	.0010	.0002	.0001	.0003	.0001	.19	.0005
%RSD	.2285	167.9	.0281	3.450	24.58	7.344	.1961	34.57
#1	8.335	.0002	.8863	.0016	.0015	.0017	96.12	-.0018
#2	8.298	-.0016	.8858	.0015	.0012	.0015	95.79	-.0010
#3	8.311	-.0003	.8860	.0016	.0009	.0015	95.79	-.0020

Zoom In Zoom Out

Sample Name: jc76113-6f Acquired: 10/24/2018 22:08:25 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0018**	**.0328**
Stddev	.0005	.0009
%RSD	26.34	2.690
#1	.0021	.0338
#2	.0012	.0325
#3	.0019	.0322

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**93405.**	**4440.8**	**4071.6**	**9955.1**
Stddev	1995.	19.5	11.9	11.9
%RSD	2.1357	.43836	.29269	.11983
#1	95706.	4458.8	4058.2	9941.6
#2	92172.	4443.5	4081.0	9959.7
#3	92336.	4420.1	4075.6	9964.0

Zoom In Zoom Out

Sample Name: jc76222-4 Acquired: 10/24/2018 22:13:57 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3739**	**-.0008**	**.0002**	**-.0007**	**.0012**	**.0068**	**1.805**	**.0001**
Stddev	.0017	.0000	.0001	.0001	.0001	.0003	.017	.0002
%RSD	.4528	3.502	38.97	17.78	11.79	4.146	.9363	150.1
#1	.3758	-.0008	.0003	-.0006	.0013	.0068	1.802	.0003
#2	.3732	-.0008	.0001	-.0008	.0010	.0065	1.789	.0002
#3	.3726	-.0007	.0003	-.0007	.0012	.0071	1.823	-.0001

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0017**	**.0350**	**.0035**	F **-.0034**	**.0210**	**-.0007**	**-.0007**
Stddev	.0002	.0003	.0002	.0007	.0011	.0005	.0006	.0005
%RSD	21.49	16.87	.6096	19.16	31.62	2.387	77.64	66.42
#1	.0010	.0019	.0348	.0031	-.0046	.0208	-.0004	-.0008
#2	.0013	.0014	.0350	.0032	-.0024	.0216	-.0004	-.0002
#3	.0008	.0019	.0352	.0043	-.0033	.0206	-.0014	-.0011

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2647**	F **219.7**	**20.00**	**11.30**	**31.77**	F **380.8**	**.0945**	**.0058**
Stddev	.0036	1.5	.12	.08	.11	2.7	.0004	.0003
%RSD	1.345	.6693	.5831	.6660	.3604	.7071	.4538	5.108
#1	.2613	221.3	20.14	11.36	31.89	383.0	.0948	.0060
#2	.2684	218.4	19.94	11.22	31.77	377.8	.0940	.0055
#3	.2643	219.4	19.93	11.33	31.66	381.7	.0946	.0059

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.40**	**.0003**	**1.278**	**.0196**	**.0015**	**.0009**	**.9425**	**-.0001**
Stddev	.01	.0013	.005	.0005	.0003	.0001	.0006	.0008
%RSD	.0617	486.5	.3707	2.680	21.77	12.48	.0608	844.4
#1	12.41	.0016	1.283	.0198	.0014	.0008	.9423	.0001
#2	12.40	-.0009	1.275	.0190	.0018	.0009	.9431	-.0010
#3	12.40	.0001	1.275	.0200	.0012	.0010	.9420	.0006

Zoom In Zoom Out

Sample Name: jc76222-4 Acquired: 10/24/2018 22:13:57 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0071**	**.2007**
Stddev	.0006	.0010
%RSD	8.734	.4847
#1	.0065	.1996
#2	.0072	.2016
#3	.0077	.2008

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**89842.**	**4397.9**	**3924.4**	**9405.0**
Stddev	881.	23.9	3.7	5.1
%RSD	.98079	.54423	.09356	.05380
#1	89905.	4373.7	3922.3	9399.4
#2	90690.	4421.6	3922.3	9406.5
#3	88931.	4398.5	3928.7	9409.2

Zoom In Zoom Out

Sample Name: mp9836-mb1 Acquired: 10/24/2018 22:19:30 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: water

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0001**	**.0000**	**-.0003**	**.0000**	**.0006**	**-.0000**	**-.0002**	**.0002**
Stddev	.0001	.0000	.0001	.0003	.0002	.0002	.0000	.0002	.0001
%RSD	55.85	46.71	771.2	94.35	1867.	30.02	154.4	135.3	35.34
#1	-.0001	.0000	-.0001	-.0005	-.0001	.0004	.0000	-.0001	.0002
#2	-.0001	.0001	.0001	-.0005	.0002	.0008	-.0000	-.0004	.0001
#3	-.0003	.0001	.0001	.0000	-.0000	.0005	-.0000	-.0000	.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0009**	**-.0004**	**-.0011**	**-.0014**	**.0017**	**.0008**	**.0107**	**-.0012**
Stddev	.0001	.0001	.0010	.0003	.0005	.0011	.0007	.0084	.0025
%RSD	347.5	13.04	252.1	28.34	36.19	63.38	92.91	78.01	211.4
#1	-.0001	-.0010	.0007	-.0015	-.0019	.0029	.0016	.0049	.0003
#2	.0000	-.0010	-.0005	-.0008	-.0009	.0017	.0002	.0203	-.0040
#3	.0000	-.0008	-.0014	-.0011	-.0014	.0007	.0005	.0069	.0002

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0289**	**.0277**	**.1562**	**-.0027**	**-.0015**	**.0070**	**.0003**	**-.0000**
Stddev	.0021	.0272	.0129	.0124	.0001	.0001	.0004	.0002	.0001
%RSD	2098.	94.03	46.48	7.954	5.176	9.212	6.121	53.32	1087.
#1	.0016	.0134	.0416	.1691	-.0026	-.0014	.0066	.0002	-.0001
#2	-.0024	.0130	.0252	.1551	-.0028	-.0015	.0072	.0003	.0001
#3	.0011	.0603	.0162	.1443	-.0027	-.0016	.0074	.0005	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0005**	**.0002**	**.0001**	**-.0006**	**.0010**	**.0002**
Stddev	.0001	.0005	.0000	.0018	.0003	.0007	.0006
%RSD	34.51	103.7	25.09	1866.	46.36	66.03	377.4
#1	.0004	.0001	.0001	-.0007	-.0003	.0003	-.0001
#2	.0002	.0010	.0002	-.0012	-.0007	.0012	-.0003
#3	.0003	.0003	.0002	.0022	-.0007	.0015	.0009

Zoom In Zoom Out

Sample Name: mp9836-mb1 Acquired: 10/24/2018 22:19:30 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: water

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99335.**	**4473.0**	**4331.9**	**10932.**
Stddev	782.	13.9	2.3	8.
%RSD	.78732	.31039	.05293	.07690
#1	99119.	4464.9	4334.3	10935.
#2	98685.	4465.0	4329.7	10939.
#3	100200.	4489.0	4331.7	10923.

Zoom In Zoom Out

Sample Name: mp9836-b1 Acquired: 10/24/2018 22:25:03 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.910**	**1.995**	**1.938**	**1.944**	**1.952**	**1.956**	**2.007**	**1.964**
Stddev	.001	.005	.001	.003	.001	.007	.002	.004
%RSD	.0452	.2502	.0740	.1292	.0684	.3838	.1077	.1894
#1	1.910	1.992	1.940	1.946	1.952	1.947	2.005	1.968
#2	1.911	1.993	1.938	1.941	1.954	1.961	2.010	1.963
#3	1.909	2.001	1.937	1.944	1.951	1.959	2.006	1.960

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2395**	**1.955**	**1.970**	**1.920**	**1.989**	**1.959**	**1.923**	**1.950**
Stddev	.0006	.004	.003	.003	.004	.004	.003	.006
%RSD	.2489	.2058	.1311	.1764	.1744	.2052	.1464	.3076
#1	.2394	1.951	1.971	1.920	1.992	1.962	1.921	1.956
#2	.2401	1.959	1.967	1.923	1.985	1.954	1.926	1.944
#3	.2389	1.955	1.971	1.916	1.990	1.960	1.921	1.950

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.10**	**24.68**	**24.90**	**23.90**	**24.26**	**24.80**	**1.960**	**1.974**
Stddev	.05	.16	.13	.19	.04	.03	.001	.001
%RSD	.2097	.6561	.5357	.7880	.1537	.1345	.0682	.0618
#1	25.08	24.70	24.94	23.85	24.26	24.76	1.961	1.973
#2	25.05	24.51	24.75	23.74	24.23	24.80	1.958	1.975
#3	25.16	24.84	25.00	24.11	24.30	24.83	1.960	1.973

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0333**	**1.988**	**1.952**	**1.955**	**1.940**	**1.984**	F **-.2252**	**-.0097**
Stddev	.0010	.005	.001	.004	.001	.006	.0004	.0005
%RSD	2.917	.2506	.0440	.2326	.0724	.3219	.1828	5.100
#1	-.0336	1.994	1.951	1.951	1.938	1.976	-.2247	-.0097
#2	-.0322	1.988	1.952	1.960	1.941	1.989	-.2255	-.0101
#3	-.0340	1.984	1.951	1.955	1.940	1.986	-.2254	-.0091

Zoom In Zoom Out

Sample Name: mp9836-b1 Acquired: 10/24/2018 22:25:03 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0004**	**1.955**
Stddev	.0007	.013
%RSD	165.9	.6688
#1	-.0002	1.951
#2	-.0012	1.969
#3	.0002	1.944

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95724.**	**4476.5**	**4216.4**	**10386.**
Stddev	270.	33.4	5.2	15.
%RSD	.28209	.74638	.12251	.14893
#1	95983.	4474.5	4213.3	10371.
#2	95444.	4510.9	4213.7	10386.
#3	95745.	4444.1	4222.4	10402.

Zoom In Zoom Out

Sample Name: mp9836-s1 Acquired: 10/24/2018 22:30:08 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.039**	**2.020**	**1.934**	**1.932**	**1.939**	**1.963**	**2.000**	**1.955**	**.2401**
Stddev	.005	.005	.003	.008	.004	.006	.006	.007	.0005
%RSD	.2584	.2670	.1469	.3916	.2014	.3078	.3024	.3592	.2247
#1	2.035	2.016	1.937	1.937	1.942	1.970	2.005	1.958	.2407
#2	2.045	2.026	1.932	1.923	1.935	1.958	1.993	1.947	.2397
#3	2.037	2.018	1.934	1.935	1.941	1.962	2.001	1.959	.2398

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.949**	**1.961**	**1.915**	**1.983**	**1.949**	**1.924**	**1.944**	**25.39**	**35.80**
Stddev	.005	.008	.004	.005	.008	.012	.006	.08	.08
%RSD	.2610	.4062	.2166	.2715	.4327	.6218	.3165	.3340	.2292
#1	1.953	1.962	1.917	1.978	1.954	1.936	1.951	25.31	35.72
#2	1.943	1.953	1.910	1.981	1.939	1.912	1.939	25.47	35.88
#3	1.949	1.969	1.917	1.989	1.954	1.924	1.942	25.39	35.81

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.97**	**32.12**	**26.10**	**37.75**	**1.961**	**1.959**	**7.400**	**1.967**	**2.091**
Stddev	.07	.16	.06	.11	.005	.005	.018	.007	.006
%RSD	.2812	.5103	.2358	.2814	.2708	.2572	.2403	.3447	.2954
#1	24.89	31.97	26.03	37.65	1.967	1.961	7.419	1.971	2.086
#2	25.03	32.30	26.15	37.86	1.957	1.953	7.383	1.959	2.098
#3	24.99	32.10	26.12	37.74	1.960	1.962	7.398	1.970	2.090

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.946**	**1.941**	**1.978**	**4.483**	**-.0099**	**.0021**	**1.944**
Stddev	.005	.010	.006	.009	.0007	.0008	.018
%RSD	.2775	.5044	.3300	.2006	6.764	39.33	.9220
#1	1.950	1.950	1.984	4.492	-.0098	.0030	1.957
#2	1.940	1.931	1.971	4.474	-.0107	.0018	1.924
#3	1.947	1.944	1.979	4.484	-.0093	.0014	1.951

Zoom In Zoom Out

Sample Name: mp9836-s1 Acquired: 10/24/2018 22:30:08 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95510.**	**4404.2**	**4207.9**	**10332.**
Stddev	160.	9.5	7.7	31.
%RSD	.16720	.21596	.18378	.30280
#1	95438.	4414.9	4199.2	10302.
#2	95693.	4396.9	4213.9	10364.
#3	95399.	4400.7	4210.7	10330.

Zoom In Zoom Out

Sample Name: mp9836-s2 Acquired: 10/24/2018 22:35:12 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.059**	**2.009**	**1.961**	**1.957**	**1.964**	**1.976**	**2.021**	**1.977**	**.2433**
Stddev	.006	.005	.004	.007	.018	.022	.020	.006	.0025
%RSD	.2697	.2550	.1890	.3504	.9432	1.125	1.009	.2940	1.027
#1	2.063	2.013	1.964	1.962	1.973	1.984	2.031	1.981	.2442
#2	2.063	2.011	1.960	1.959	1.976	1.994	2.034	1.978	.2451
#3	2.053	2.003	1.957	1.949	1.942	1.951	1.998	1.970	.2404

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.969**	**1.988**	**1.941**	**2.003**	**1.970**	**1.945**	**1.973**	**25.32**	**36.04**
Stddev	.020	.006	.003	.011	.005	.003	.003	.07	.07
%RSD	1.004	.3086	.1739	.5307	.2463	.1734	.1426	.2713	.1867
#1	1.978	1.993	1.944	2.012	1.969	1.948	1.970	25.36	36.12
#2	1.983	1.989	1.938	2.005	1.976	1.945	1.975	25.36	35.98
#3	1.946	1.981	1.940	1.991	1.966	1.941	1.973	25.24	36.03

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**32.13**	**26.26**	**37.84**	**1.985**	**1.990**	**7.512**	**2.000**	**2.110**
Stddev	.05	.10	.08	.12	.001	.004	.011	.004	.005
%RSD	.2000	.3041	.3082	.3202	.0682	.1919	.1396	.1891	.2561
#1	25.09	32.14	26.30	37.90	1.987	1.994	7.517	2.004	2.113
#2	25.05	32.22	26.32	37.92	1.985	1.990	7.519	1.997	2.112
#3	24.99	32.03	26.17	37.70	1.984	1.986	7.500	1.999	2.104

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.971**	**1.970**	**1.999**	**4.544**	**-.0100**	**.0019**	**1.970**
Stddev	.020	.004	.022	.009	.0008	.0009	.007
%RSD	1.033	.1763	1.099	.1987	8.281	45.78	.3573
#1	1.980	1.973	2.008	4.552	-.0107	.0028	1.978
#2	1.985	1.971	2.015	4.546	-.0102	.0010	1.969
#3	1.947	1.966	1.974	4.535	-.0091	.0018	1.964

Zoom In Zoom Out

Sample Name: mp9836-s2 Acquired: 10/24/2018 22:35:12 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95663.**	**4469.6**	**4205.2**	**10327.**
Stddev	1024.	13.3	3.6	17.
%RSD	1.0701	.29738	.08567	.16875
#1	95180.	4455.2	4201.0	10313.
#2	94970.	4472.4	4206.7	10322.
#3	96839.	4481.3	4207.8	10346.

Zoom In Zoom Out

Sample Name: jc76324-12 Acquired: 10/24/2018 22:40:16 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1357**	**.0001**	**.0002**	**-.0005**	**.0010**	**.0009**	**.0058**	**.0007**	**.0002**
Stddev	.0003	.0001	.0001	.0001	.0002	.0002	.0000	.0003	.0001
%RSD	.2550	48.90	67.96	17.84	15.48	16.92	.6441	37.47	23.92
#1	.1361	.0001	.0001	-.0004	.0010	.0008	.0058	.0010	.0002
#2	.1355	.0002	.0002	-.0006	.0009	.0011	.0058	.0006	.0002
#3	.1354	.0001	.0003	-.0005	.0012	.0009	.0058	.0005	.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0119**	**-.0003**	**.0000**	**-.0009**	**.0035**	**.0003**	**.0440**	**11.51**
Stddev	.0001	.0001	.0004	.0011	.0013	.0004	.0010	.0020	.05
%RSD	73.41	.8628	129.2	48570.	144.2	12.54	395.5	4.503	.4023
#1	.0001	.0118	-.0004	.0003	-.0001	.0031	-.0009	.0457	11.52
#2	.0002	.0119	-.0007	.0009	-.0024	.0040	.0010	.0444	11.56
#3	.0001	.0120	.0001	-.0012	-.0002	.0034	.0006	.0418	11.47

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0467**	**8.197**	**1.738**	**12.69**	**.0043**	**.0011**	**7.401**	**.0002**	**.1471**
Stddev	.0002	.043	.017	.05	.0002	.0004	.004	.0008	.0010
%RSD	.5072	.5250	.9664	.3634	5.415	35.33	.0534	362.6	.6521
#1	.0469	8.230	1.735	12.73	.0046	.0015	7.404	.0011	.1464
#2	.0466	8.213	1.756	12.70	.0041	.0009	7.403	-.0000	.1468
#3	.0465	8.148	1.723	12.64	.0042	.0008	7.397	-.0004	.1482

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0043**	**.0007**	**4.805**	**-.0011**	**.0016**	**.0007**
Stddev	.0003	.0004	.0002	.004	.0004	.0006	.0011
%RSD	21.48	9.298	24.33	.0817	38.29	39.63	166.6
#1	.0010	.0041	.0008	4.800	-.0007	.0010	.0001
#2	.0015	.0047	.0006	4.806	-.0015	.0022	-.0001
#3	.0010	.0039	.0005	4.808	-.0011	.0014	.0020

Zoom In Zoom Out

Sample Name: jc76324-12 Acquired: 10/24/2018 22:40:16 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98708.**	**4513.9**	**4285.1**	**10735.**
Stddev	276.	7.9	2.3	9.
%RSD	.27962	.17504	.05435	.08455
#1	98458.	4511.4	4285.4	10737.
#2	98662.	4507.5	4282.6	10743.
#3	99004.	4522.7	4287.2	10726.

Zoom In Zoom Out

Sample Name: mp9836-sd1 Acquired: 10/24/2018 22:45:42 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1330**	**.0004**	**.0001**	**-.0015**	**.0008**	**.0031**	**.0060**	**.0000**	**-.0002**
Stddev	.0004	.0003	.0004	.0008	.0007	.0008	.0001	.0011	.0010
%RSD	.2869	79.09	388.4	54.13	81.58	24.93	1.328	3708.	564.0
#1	.1332	.0008	-.0003	-.0006	.0002	.0028	.0060	-.0010	-.0013
#2	.1333	.0004	.0000	-.0022	.0006	.0039	.0060	.0012	.0007
#3	.1326	.0001	.0006	-.0018	.0015	.0025	.0059	-.0002	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0070**	**.0027**	**-.0066**	**-.0036**	**.0110**	**.0010**	**.1038**	**11.46**
Stddev	.0009	.0004	.0034	.0031	.0020	.0078	.0021	.0638	.03
%RSD	410.0	6.261	127.6	47.37	55.36	70.68	214.8	61.39	.2855
#1	-.0001	.0070	-.0012	-.0101	-.0018	.0093	.0029	.1612	11.44
#2	-.0012	.0074	.0052	-.0041	-.0031	.0195	.0013	.0352	11.50
#3	.0007	.0065	.0041	-.0056	-.0057	.0042	-.0012	.1151	11.44

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0436**	**8.219**	**1.618**	**12.82**	**-.0040**	**-.0051**	**7.550**	**.0005**	**.1469**
Stddev	.0068	.126	.239	.04	.0031	.0002	.031	.0008	.0014
%RSD	15.61	1.528	14.75	.2810	78.19	3.695	.4115	138.7	.9621
#1	.0415	8.170	1.748	12.79	-.0056	-.0050	7.514	.0005	.1453
#2	.0381	8.362	1.764	12.86	-.0004	-.0053	7.565	-.0002	.1480
#3	.0512	8.126	1.343	12.81	-.0060	-.0049	7.570	.0013	.1474

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026**	**-.0020**	**.0011**	**4.750**	**-.0031**	**.0002**	**.0011**
Stddev	.0013	.0032	.0002	.021	.0021	.0025	.0044
%RSD	49.08	163.5	17.96	.4402	68.18	1283.	409.7
#1	.0012	.0017	.0011	4.738	-.0024	-.0018	.0057
#2	.0029	-.0045	.0012	4.774	-.0014	-.0006	.0006
#3	.0037	-.0031	.0009	4.738	-.0054	.0030	-.0030

Zoom In Zoom Out

Sample Name: mp9836-sd1 Acquired: 10/24/2018 22:45:42 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99189.**	**4495.9**	**4358.4**	**11001.**
Stddev	307.	8.6	1.3	15.
%RSD	.30919	.19239	.02962	.13589
#1	98866.	4499.5	4359.9	11018.
#2	99224.	4486.1	4357.4	10990.
#3	99476.	4502.2	4357.9	10994.

Zoom In Zoom Out

Sample Name: jc74215-1r Acquired: 10/24/2018 22:51:10 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0299**	**-.0000**	**.0004**	**.0009**	**.0311**	**.0666**	**.0822**	**.0109**	**.0002**
Stddev	.0001	.0001	.0001	.0002	.0002	.0005	.0004	.0001	.0002
%RSD	.4015	217.2	27.19	23.85	.7834	.7817	.4930	.7193	131.8
#1	.0298	-.0002	.0005	.0009	.0311	.0666	.0822	.0108	.0001
#2	.0300	.0000	.0003	.0010	.0308	.0660	.0817	.0110	-.0000
#3	.0299	-.0000	.0004	.0006	.0312	.0670	.0825	.0108	.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	F **9.564**	**.0010**	**-.0020**	**.0041**	**.0028**	**.0164**	**.8108**	**8.551**
Stddev	.0001	.020	.0003	.0008	.0006	.0016	.0010	.0186	.027
%RSD	14.69	.2079	33.20	39.48	14.99	55.62	6.156	2.300	.3163
#1	.0009	9.574	.0012	-.0028	.0048	.0042	.0172	.7909	8.520
#2	.0010	9.576	.0011	-.0012	.0038	.0011	.0153	.8278	8.564
#3	.0007	9.541	.0006	-.0019	.0037	.0032	.0167	.8138	8.570

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4030**	**1.440**	**3.606**	**20.34**	**.0370**	**.0008**	**2.051**	**.0529**	**.0516**
Stddev	.0061	.033	.035	.02	.0003	.0003	.001	.0004	.0003
%RSD	1.524	2.287	.9820	.0751	.7590	41.94	.0680	.8361	.5324
#1	.3964	1.477	3.636	20.35	.0373	.0011	2.051	.0526	.0514
#2	.4085	1.430	3.614	20.34	.0369	.0005	2.050	.0527	.0517
#3	.4042	1.414	3.567	20.32	.0367	.0007	2.053	.0534	.0519

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0086**	**.0289**	**.0911**	**11.01**	**.0023**	**.0022**	**2.142**
Stddev	.0005	.0015	.0007	.01	.0007	.0006	.002
%RSD	5.266	5.164	.7148	.0596	29.23	26.88	.1141
#1	.0082	.0275	.0907	11.01	.0015	.0016	2.145
#2	.0091	.0304	.0908	11.00	.0026	.0021	2.140
#3	.0085	.0288	.0919	11.01	.0026	.0028	2.141

Zoom In Zoom Out

Sample Name: jc74215-1r Acquired: 10/24/2018 22:51:10 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95809.**	**4373.1**	**4266.9**	**10619.**
Stddev	481.	10.5	2.6	11.
%RSD	.50229	.24107	.06016	.10102
#1	95783.	4384.8	4269.9	10628.
#2	96302.	4364.5	4265.6	10622.
#3	95341.	4369.9	4265.3	10607.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 22:56:34 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.990**	**2.069**	**2.022**	**2.014**	**2.010**	**2.027**	**2.059**	**2.035**	**.2456**
Stddev	.003	.002	.003	.002	.003	.005	.003	.004	.0003
%RSD	.1728	.0951	.1671	.1084	.1452	.2633	.1513	.2065	.1286
#1	1.986	2.068	2.024	2.014	2.010	2.032	2.061	2.031	.2457
#2	1.991	2.068	2.018	2.012	2.013	2.021	2.060	2.036	.2452
#3	1.993	2.071	2.023	2.016	2.007	2.027	2.055	2.039	.2458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.018**	**2.037**	**2.005**	**2.061**	**2.033**	**2.041**	**2.033**	**40.30**	**39.25**
Stddev	.002	.004	.004	.003	.003	.004	.005	.12	.03
%RSD	.0964	.1818	.2009	.1197	.1589	.2207	.2486	.2892	.0673
#1	2.020	2.033	2.010	2.059	2.031	2.045	2.039	40.26	39.28
#2	2.017	2.039	2.002	2.060	2.031	2.036	2.031	40.20	39.23
#3	2.016	2.039	2.005	2.064	2.036	2.042	2.030	40.43	39.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.31**	**38.53**	**39.07**	**39.95**	**2.072**	**2.025**	**5.268**	**2.036**	**2.021**
Stddev	.10	.12	.05	.06	.001	.003	.012	.003	.004
%RSD	.2521	.3006	.1366	.1423	.0265	.1230	.2320	.1304	.1801
#1	39.39	38.53	39.02	39.95	2.073	2.026	5.282	2.037	2.018
#2	39.20	38.64	39.07	39.90	2.073	2.022	5.258	2.032	2.019
#3	39.36	38.41	39.13	40.01	2.072	2.027	5.264	2.037	2.025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 22:56:34 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.004**	**2.002**	**2.046**	**2.011**	**2.041**	**2.064**	**2.030**
Stddev	.003	.002	.004	.007	.007	.006	.002
%RSD	.1346	.1205	.2057	.3365	.3212	.2735	.1095
#1	2.007	2.001	2.051	2.018	2.048	2.062	2.032
#2	2.002	2.005	2.043	2.009	2.035	2.059	2.027
#3	2.003	2.001	2.044	2.005	2.039	2.070	2.031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95494.**	**4466.7**	**4183.5**	**10257.**
Stddev	63.	7.4	4.2	7.
%RSD	.06586	.16623	.09963	.07236
#1	95440.	4459.1	4179.0	10264.
#2	95563.	4473.9	4187.3	10257.
#3	95478.	4467.2	4184.3	10250.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 23:01:39 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0000**	**.0001**	**-.0001**	**.0000**	**.0006**	**.0000**	**.0002**	**.0001**
Stddev	.0001	.0001	.0002	.0001	.0001	.0002	.0000	.0005	.0003
%RSD	90.20	391.6	150.8	284.1	248.2	34.45	94.59	244.8	249.1
#1	.0003	-.0000	-.0000	-.0002	.0001	.0008	.0000	-.0000	.0002
#2	.0002	.0000	.0003	-.0000	.0000	.0007	.0000	-.0001	-.0002
#3	.0000	-.0001	.0000	.0001	-.0001	.0004	.0000	.0008	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0006**	**.0009**	**-.0008**	**-.0005**	**.0009**	**-.0002**	**.0087**	**-.0040**
Stddev	.0001	.0000	.0006	.0005	.0011	.0004	.0008	.0090	.0043
%RSD	119.5	6.425	71.37	54.58	214.8	38.76	322.1	103.5	105.3
#1	-.0001	-.0005	.0005	-.0013	-.0017	.0007	.0004	.0171	-.0060
#2	-.0002	-.0006	.0006	-.0004	-.0001	.0013	-.0011	.0096	.0008
#3	.0000	-.0006	.0016	-.0008	.0003	.0007	-.0000	-.0007	-.0070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0167**	**.0051**	**.0461**	**-.0008**	**.0004**	**.0040**	**-.0002**	**.0000**
Stddev	.0014	.0160	.0148	.0102	.0001	.0003	.0010	.0006	.0001
%RSD	627.3	95.80	291.5	22.10	13.07	83.17	25.06	374.0	888.4
#1	.0015	-.0225	.0062	.0541	-.0009	.0008	.0048	.0005	-.0001
#2	-.0012	.0014	-.0103	.0346	-.0009	.0003	.0045	-.0006	.0001
#3	.0004	-.0291	.0194	.0496	-.0007	.0001	.0029	-.0003	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 23:01:39 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0005**	**.0000**	**.0059**	**-.0008**	**.0007**	**.0001**
Stddev	.0001	.0003	.0002	.0004	.0006	.0005	.0002
%RSD	468.6	71.21	348.8	7.427	73.35	69.21	288.4
#1	-.0000	-.0002	.0002	.0060	-.0016	.0011	-.0001
#2	.0001	-.0008	-.0001	.0055	-.0004	.0001	.0004
#3	-.0000	-.0005	.0001	.0063	-.0006	.0010	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99121.**	**4508.6**	**4353.8**	**11009.**
Stddev	268.	4.1	4.7	10.
%RSD	.26994	.09202	.10778	.09531
#1	99074.	4513.1	4353.2	11000.
#2	98881.	4507.9	4358.8	11006.
#3	99409.	4504.9	4349.5	11021.

Zoom In Zoom Out

Sample Name: jc75868-9a Acquired: 10/24/2018 23:07:13 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0362**	**.0010**	**.0042**	**.0001**	**.0338**	**.1975**	F **8.298**	**.0103**	*****
Stddev	.0003	.0001	.0003	.0004	.0003	.0008	.019	.0002	-----
%RSD	.7247	5.630	7.814	453.3	.9652	.4016	.2281	2.280	-----
#1	.0362	.0009	.0045	.0004	.0341	.1967	8.320	.0100	-----
#2	.0359	.0010	.0038	.0003	.0334	.1983	8.285	.0105	-----
#3	.0364	.0010	.0042	-.0004	.0339	.1976	8.290	.0104	-----

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0180**	**2.701**	**.0060**	**.0023**	**.0198**	**.0056**	**-.0018**	**6.977**	**124.7**
Stddev	.0004	.005	.0003	.0017	.0014	.0018	.0004	.010	.2
%RSD	1.970	.2015	5.632	75.39	6.989	31.81	20.75	.1380	.1230
#1	.0178	2.703	.0057	.0013	.0183	.0077	-.0018	6.986	124.6
#2	.0177	2.696	.0059	.0042	.0210	.0045	-.0014	6.979	124.6
#3	.0184	2.706	.0064	.0013	.0201	.0047	-.0022	6.967	124.9

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **599.4**	**23.63**	**3.579**	F **1177.**	**.0897**	**-.0028**	**20.74**	**-.0055**	**.2595**
Stddev	.4	.06	.025	3.	.0005	.0003	.01	.0007	.0002
%RSD	.0696	.2366	.6889	.2614	.5747	9.310	.0638	12.77	.0898
#1	599.6	23.59	3.580	1179.	.0893	-.0025	20.72	-.0047	.2597
#2	599.0	23.70	3.554	1174.	.0896	-.0030	20.74	-.0059	.2594
#3	599.7	23.61	3.603	1179.	.0903	-.0028	20.75	-.0058	.2592

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0420**	**.0106**	**.0141**	F **1077.**	**.0333**	**.0191**	**.1626**
Stddev	.0005	.0016	.0003	3.	.0021	.0001	.0006
%RSD	1.247	14.82	1.879	.3221	6.306	.5919	.3621
#1	.0424	.0113	.0143	1081.	.0355	.0192	.1629
#2	.0414	.0116	.0141	1074.	.0333	.0192	.1619
#3	.0423	.0088	.0138	1077.	.0313	.0190	.1629

Zoom In Zoom Out

Sample Name: jc75868-9a Acquired: 10/24/2018 23:07:13 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**86291.**	**4257.5**	**3771.8**	**9482.0**
Stddev	159.	8.5	5.0	9.4
%RSD	.18423	.20073	.13136	.09867
#1	86126.	4265.6	3777.1	9492.6
#2	86444.	4258.4	3771.0	9478.5
#3	86303.	4248.6	3767.3	9475.0

Zoom In Zoom Out

Sample Name: jc75868-9a Acquired: 10/24/2018 23:12:50 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0344**	**.0010**	**.0054**	**-.0011**	**.0352**	**.1963**	**9.014**	**.0103**	**.0045**
Stddev	.0015	.0004	.0005	.0002	.0006	.0033	.072	.0013	.0021
%RSD	4.325	39.08	8.351	21.15	1.561	1.666	.7999	12.47	46.59
#1	.0346	.0012	.0056	-.0013	.0356	.1969	8.992	.0114	.0041
#2	.0358	.0012	.0049	-.0008	.0346	.1992	9.094	.0089	.0026
#3	.0329	.0005	.0058	-.0011	.0355	.1928	8.955	.0108	.0067

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0176**	**2.882**	**.0089**	**.0175**	**.0188**	**.0206**	**-.0056**	**6.926**	**128.0**
Stddev	.0010	.001	.0036	.0024	.0044	.0060	.0032	.069	.6
%RSD	5.658	.0494	41.11	13.70	23.41	29.16	57.93	.9911	.4467
#1	.0187	2.882	.0085	.0160	.0200	.0237	-.0035	6.874	128.4
#2	.0174	2.881	.0127	.0202	.0224	.0137	-.0093	6.900	127.3
#3	.0167	2.883	.0054	.0162	.0139	.0243	-.0040	7.004	128.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**644.0**	**24.13**	**3.226**	F **1266.**	**.0805**	**-.0105**	**20.41**	**-.0099**	**.2613**
Stddev	1.3	.29	.078	9.	.0029	.0011	.05	.0002	.0014
%RSD	.1985	1.205	2.425	.7430	3.598	10.56	.2300	2.103	.5509
#1	645.3	24.37	3.262	1277.	.0805	-.0092	20.40	-.0097	.2626
#2	642.7	23.81	3.136	1261.	.0776	-.0113	20.46	-.0101	.2615
#3	644.0	24.20	3.280	1260.	.0833	-.0109	20.37	-.0098	.2597

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0459**	**.0058**	**.0136**	F **1502.**	**.0315**	**.0258**	**.1571**
Stddev	.0011	.0061	.0010	1.	.0021	.0006	.0034
%RSD	2.434	105.9	7.402	.0502	6.716	2.157	2.188
#1	.0446	.0016	.0126	1501.	.0308	.0254	.1602
#2	.0468	.0128	.0135	1502.	.0298	.0256	.1534
#3	.0461	.0030	.0146	1502.	.0339	.0264	.1577

Zoom In Zoom Out

Sample Name: jc75868-9a Acquired: 10/24/2018 23:12:50 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**93443.**	**4500.1**	**4134.5**	**10170.**
Stddev	776.	22.2	4.8	1.
%RSD	.83090	.49336	.11604	.01417
#1	93573.	4489.0	4134.6	10169.
#2	92609.	4525.6	4129.6	10172.
#3	94146.	4485.5	4139.2	10170.

Zoom In Zoom Out

Sample Name: jc74215-1r Acquired: 10/24/2018 23:18:23 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0293**	**-.0001**	**.0008**	**.0006**	**.0307**	**.0656**	**.0820**	**.0101**	**.0004**
Stddev	.0003	.0001	.0001	.0003	.0004	.0011	.0008	.0002	.0006
%RSD	.8585	90.70	19.19	57.49	1.465	1.635	.9646	1.859	133.8
#1	.0293	-.0002	.0009	.0004	.0312	.0668	.0829	.0099	-.0002
#2	.0290	-.0000	.0008	.0009	.0305	.0652	.0816	.0101	.0010
#3	.0295	-.0003	.0006	.0003	.0304	.0647	.0815	.0103	.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**9.671**	**-.0012**	**-.0014**	**.0019**	**.0031**	**.0163**	**.8045**	**8.508**
Stddev	.0001	.025	.0016	.0034	.0006	.0009	.0014	.0167	.019
%RSD	23.19	.2563	125.1	252.0	32.06	28.02	8.865	2.082	.2222
#1	.0007	9.696	.0003	-.0000	.0024	.0035	.0173	.7875	8.506
#2	.0004	9.647	-.0013	-.0053	.0020	.0021	.0146	.8210	8.528
#3	.0006	9.670	-.0028	.0012	.0012	.0036	.0168	.8049	8.491

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4046**	**1.469**	**3.624**	**20.44**	**.0331**	**-.0013**	**2.101**	**.0529**	**.0516**
Stddev	.0014	.006	.027	.00	.0009	.0001	.005	.0007	.0004
%RSD	.3425	.4095	.7492	.0058	2.819	4.453	.2254	1.318	.8194
#1	.4044	1.464	3.593	20.44	.0341	-.0014	2.098	.0525	.0513
#2	.4060	1.466	3.642	20.43	.0331	-.0013	2.106	.0537	.0513
#3	.4033	1.476	3.639	20.44	.0322	-.0013	2.099	.0525	.0521

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0083**	**.0255**	**.0870**	**11.29**	**.0009**	**.0032**	**2.149**
Stddev	.0005	.0020	.0003	.03	.0026	.0006	.007
%RSD	6.505	7.692	.3214	.2389	279.7	17.84	.3060
#1	.0085	.0272	.0871	11.31	.0039	.0025	2.154
#2	.0088	.0260	.0873	11.31	-.0006	.0035	2.152
#3	.0077	.0234	.0867	11.26	-.0005	.0034	2.142

Zoom In Zoom Out

Sample Name: jc74215-1r Acquired: 10/24/2018 23:18:23 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97992.**	**4408.6**	**4301.3**	**10796.**
Stddev	705.	12.1	8.6	20.
%RSD	.71972	.27436	.20011	.18761
#1	97181.	4401.6	4298.4	10793.
#2	98331.	4401.6	4311.0	10818.
#3	98464.	4422.5	4294.6	10778.

Zoom In Zoom Out

Sample Name: icsa Acquired: 10/24/2018 23:25:12 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**-.0001**	**.0017**	**-.0011**	**.0004**	**.0000**	**.0042**	**-.0014**	**.0003**
Stddev	.0003	.0000	.0001	.0005	.0001	.0002	.0001	.0002	.0005
%RSD	17.68	77.29	4.929	46.03	32.91	875.2	2.294	16.95	162.8
#1	.0013	-.0001	.0017	-.0017	.0004	.0002	.0043	-.0015	.0009
#2	.0018	-.0001	.0016	-.0008	.0005	-.0002	.0041	-.0016	-.0001
#3	.0016	-.0000	.0017	-.0007	.0002	.0001	.0042	-.0012	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0019**	**.0010**	**-.0024**	**-.0034**	**-.0013**	**-.0007**	**.0005**	**551.7**	**392.4**
Stddev	.0001	.0001	.0013	.0050	.0005	.0042	.0017	1.5	.9
%RSD	4.416	10.73	55.43	145.5	36.17	566.8	324.8	.2784	.2182
#1	-.0019	.0008	-.0035	-.0033	-.0019	-.0049	-.0013	551.9	392.7
#2	-.0019	.0010	-.0009	.0015	-.0009	.0035	.0021	550.0	391.4
#3	-.0020	.0010	-.0028	-.0085	-.0013	-.0008	.0009	553.1	393.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**199.5**	**525.7**	**-.0466**	**.2687**	**-.0052**	**-.0007**	**-.0154**	**-.0048**	**.0013**
Stddev	.6	1.2	.0129	.0071	.0012	.0003	.0008	.0015	.0002
%RSD	.2861	.2369	27.61	2.657	21.99	44.19	5.059	31.42	15.58
#1	199.7	526.0	-.0376	.2651	-.0051	-.0011	-.0162	-.0040	.0014
#2	198.9	524.3	-.0408	.2641	-.0065	-.0006	-.0147	-.0038	.0011
#3	199.9	526.7	-.0613	.2769	-.0042	-.0005	-.0152	-.0065	.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: icsa Acquired: 10/24/2018 23:25:12 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033**	**.0074**	**.0020**	**.0206**	**.0084**	**.0027**	**.0155**
Stddev	.0002	.0027	.0001	.0028	.0017	.0005	.0014
%RSD	6.352	36.57	7.388	13.59	20.26	19.46	8.854
#1	.0035	.0043	.0021	.0237	.0088	.0030	.0156
#2	.0034	.0092	.0018	.0182	.0065	.0030	.0168
#3	.0031	.0086	.0021	.0200	.0099	.0021	.0141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**87623.**	**4138.7**	**3834.6**	**9215.8**
Stddev	453.	8.0	4.2	6.7
%RSD	.51724	.19352	.11007	.07247
#1	88062.	4141.4	3831.0	9213.5
#2	87157.	4145.1	3833.7	9210.5
#3	87650.	4129.7	3839.3	9223.3

Zoom In Zoom Out

Sample Name: icsab Acquired: 10/24/2018 23:30:22 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5164**	**.5137**	**1.025**	**.4825**	**.4710**	**.5414**	**.5028**	**.9669**	**1.061**
Stddev	.0008	.0010	.000	.0002	.0021	.0030	.0023	.0012	.003
%RSD	.1472	.1915	.0250	.0414	.4452	.5536	.4614	.1226	.2712
#1	.5157	.5126	1.025	.4827	.4734	.5447	.5053	.9658	1.064
#2	.5163	.5144	1.025	.4823	.4701	.5406	.5025	.9682	1.061
#3	.5172	.5141	1.024	.4825	.4695	.5388	.5007	.9668	1.058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4809**	**.9483**	**1.030**	**.9602**	**.9696**	**1.010**	**1.035**	**536.2**	**397.9**
Stddev	.0020	.0002	.002	.0021	.0027	.001	.003	1.0	1.3
%RSD	.4224	.0264	.1671	.2138	.2754	.1227	.3266	.1853	.3360
#1	.4832	.9480	1.028	.9579	.9668	1.011	1.032	535.7	397.1
#2	.4802	.9485	1.031	.9618	.9699	1.010	1.036	535.5	397.2
#3	.4794	.9484	1.031	.9610	.9722	1.009	1.038	537.3	399.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**194.6**	**517.0**	**-.0237**	**.3821**	**.5683**	**.4916**	**.4906**	**.4562**	**.4936**
Stddev	.6	2.4	.0133	.0060	.0006	.0010	.0012	.0030	.0001
%RSD	.2881	.4632	56.19	1.559	.1091	.2022	.2481	.6640	.0193
#1	194.2	515.0	-.0191	.3875	.5690	.4927	.4896	.4537	.4935
#2	194.3	516.5	-.0132	.3831	.5681	.4907	.4901	.4553	.4935
#3	195.2	519.7	-.0387	.3757	.5678	.4913	.4920	.4595	.4937
Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	None	None	None
Value									
Range									

Zoom In Zoom Out

Sample Name: icsab Acquired: 10/24/2018 23:30:22 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4866**	**.4767**	**.4842**	**.5103**	**.5213**	**.5406**	**.5125**
Stddev	.0021	.0027	.0011	.0052	.0015	.0015	.0018
%RSD	.4237	.5655	.2355	1.020	.2952	.2737	.3508
#1	.4889	.4740	.4835	.5156	.5195	.5393	.5105
#2	.4853	.4794	.4836	.5102	.5224	.5403	.5132
#3	.4855	.4768	.4855	.5052	.5219	.5422	.5138
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**88572.**	**4156.1**	**3860.3**	**9259.4**
Stddev	314.	23.5	2.1	10.4
%RSD	.35475	.56479	.05404	.11277
#1	88229.	4171.2	3857.9	9267.9
#2	88639.	4168.1	3861.2	9247.7
#3	88847.	4129.1	3861.7	9262.5

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 23:35:27 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.977**	**2.055**	**2.015**	**2.019**	**2.001**	**2.021**	**2.054**	**2.035**	**.2442**
Stddev	.003	.004	.002	.001	.003	.003	.003	.003	.0006
%RSD	.1538	.2096	.0920	.0543	.1678	.1657	.1588	.1459	.2621
#1	1.978	2.050	2.013	2.020	2.005	2.020	2.058	2.036	.2441
#2	1.979	2.058	2.017	2.020	2.000	2.018	2.052	2.037	.2436
#3	1.974	2.056	2.014	2.018	1.999	2.025	2.052	2.031	.2449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.011**	**2.045**	**2.006**	**2.044**	**2.037**	**2.034**	**2.020**	**40.18**	**39.23**
Stddev	.002	.002	.006	.005	.004	.003	.003	.05	.08
%RSD	.0937	.1091	.2822	.2462	.2007	.1516	.1462	.1166	.2153
#1	2.012	2.048	2.010	2.042	2.041	2.030	2.022	40.13	39.13
#2	2.009	2.045	2.008	2.049	2.038	2.036	2.022	40.19	39.27
#3	2.011	2.043	1.999	2.039	2.033	2.034	2.017	40.23	39.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.15**	**38.65**	**38.89**	**39.62**	**2.054**	**2.022**	**5.221**	**2.034**	**2.008**
Stddev	.06	.07	.03	.01	.005	.002	.009	.003	.002
%RSD	.1546	.1858	.0825	.0178	.2407	.0939	.1704	.1424	.0763
#1	39.09	38.65	38.85	39.61	2.053	2.023	5.222	2.034	2.007
#2	39.16	38.59	38.91	39.62	2.059	2.024	5.229	2.037	2.010
#3	39.21	38.73	38.91	39.61	2.049	2.020	5.211	2.031	2.007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/24/2018 23:35:27 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.999**	**1.999**	**2.043**	**1.991**	**2.031**	**2.041**	**2.029**
Stddev	.002	.005	.002	.005	.006	.003	.005
%RSD	.1029	.2585	.0955	.2692	.2984	.1294	.2445
#1	2.000	1.999	2.045	1.988	2.028	2.039	2.030
#2	1.996	2.005	2.041	1.997	2.038	2.044	2.033
#3	2.000	1.995	2.043	1.988	2.027	2.040	2.024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95871.**	**4427.9**	**4197.3**	**10280.**
Stddev	153.	6.3	5.1	11.
%RSD	.15957	.14291	.12220	.10715
#1	95933.	4434.7	4199.4	10286.
#2	95984.	4426.9	4191.4	10268.
#3	95697.	4422.2	4201.0	10287.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 23:40:31 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0000**	**.0001**	**.0001**	**-.0001**	**.0003**	**.0000**	**-.0002**	**-.0002**
Stddev	.0000	.0001	.0001	.0002	.0000	.0001	.0000	.0001	.0001
%RSD	6.420	1861.	62.19	166.9	3.394	30.81	54.55	50.54	49.04
#1	-.0001	-.0001	.0001	.0001	-.0001	.0004	.0000	-.0003	-.0001
#2	-.0001	.0001	.0002	.0004	-.0001	.0004	.0000	-.0002	-.0002
#3	-.0001	.0000	.0001	-.0001	-.0001	.0002	.0001	-.0001	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0007**	**.0005**	**.0013**	**.0001**	**.0009**	**-.0002**	**.0074**	**-.0096**
Stddev	.0001	.0001	.0008	.0003	.0003	.0009	.0005	.0077	.0033
%RSD	100.6	15.84	152.9	23.06	179.1	99.65	302.9	104.3	34.36
#1	-.0000	-.0007	.0009	.0017	.0003	.0016	-.0005	.0128	-.0130
#2	.0002	-.0005	-.0004	.0012	.0003	-.0001	.0004	-.0014	-.0094
#3	.0002	-.0007	.0011	.0011	-.0002	.0011	-.0003	.0109	-.0064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064**	**.0203**	**-.0166**	**.0612**	**-.0009**	**.0004**	**-.0006**	**-.0004**	**.0001**
Stddev	.0023	.0127	.0217	.0054	.0002	.0005	.0006	.0004	.0001
%RSD	35.62	62.54	131.2	8.827	16.46	114.4	95.75	120.4	127.1
#1	.0082	.0345	-.0415	.0578	-.0010	.0007	.0000	.0001	.0001
#2	.0038	.0163	-.0015	.0584	-.0009	.0006	-.0012	-.0006	.0001
#3	.0072	.0101	-.0067	.0674	-.0007	-.0001	-.0008	-.0006	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/24/2018 23:40:31 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**.0002**	**.0039**	**-.0008**	**.0002**	**.0002**
Stddev	.0000	.0003	.0001	.0004	.0003	.0006	.0003
%RSD	13.58	13280.	33.69	9.092	44.73	264.8	137.5
#1	.0001	-.0004	.0002	.0043	-.0011	-.0000	.0002
#2	.0001	.0001	.0003	.0037	-.0007	.0009	.0004
#3	.0001	.0003	.0002	.0037	-.0004	-.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99082.**	**4552.4**	**4380.7**	**11070.**
Stddev	339.	29.1	13.5	27.
%RSD	.34195	.63937	.30797	.24152
#1	98691.	4585.6	4370.6	11046.
#2	99290.	4531.4	4375.4	11065.
#3	99264.	4540.2	4396.0	11099.

Zoom In Zoom Out

Sample Name: ticonf Acquired: 10/24/2018 23:46:05 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**-.0005**	**.0005**	**-.0007**	**.0006**	**.0001**	**-.0011**
Stddev	.0003	.0000	.0000	.0002	.0001	.0002	.0000	.0001
%RSD	309.8	24.00	8.094	30.35	7.260	36.30	32.61	9.431
#1	-.0002	.0002	-.0006	.0004	-.0007	.0007	.0001	-.0010
#2	.0002	.0001	-.0005	.0006	-.0007	.0003	.0001	-.0012
#3	.0003	.0001	-.0005	.0007	-.0008	.0006	.0001	-.0012

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0012**	**-.0026**	**.0020**	**.0071**	**.0014**	**.0003**	**.0016**
Stddev	.0002	.0001	.0002	.0001	.0004	.0007	.0010	.0002
%RSD	24.20	7.636	6.380	4.948	5.080	52.25	370.6	11.00
#1	.0009	.0013	-.0024	.0019	.0069	.0016	.0004	.0018
#2	.0007	.0011	-.0026	.0021	.0075	.0006	-.0008	.0016
#3	.0006	.0013	-.0027	.0021	.0069	.0020	.0012	.0015

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0204**	**.0033**	**.0089**	**-.0210**	**-.0231**	**.0441**	**-.0014**	**-.0014**
Stddev	.0030	.0021	.0017	.0193	.0076	.0049	.0009	.0000
%RSD	14.79	63.25	18.80	92.07	33.00	11.19	65.65	1.925
#1	.0199	.0051	.0075	-.0358	-.0314	.0396	-.0012	-.0013
#2	.0176	.0010	.0084	.0009	-.0164	.0433	-.0023	-.0014
#3	.0236	.0036	.0107	-.0281	-.0215	.0494	-.0006	-.0014

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0059**	**.0092**	**.0005**	F **10.28**	**-.0001**	**.0206**	**.0034**	F **-.0291**
Stddev	.0012	.0008	.0000	.05	.0006	.0021	.0005	.0011
%RSD	20.68	8.633	6.808	.4456	456.8	9.962	14.71	3.741
#1	.0052	.0095	.0005	10.33	.0003	.0227	.0028	-.0287
#2	.0074	.0098	.0005	10.26	.0001	.0205	.0036	-.0304
#3	.0053	.0083	.0005	10.24	-.0008	.0186	.0037	-.0283

Zoom In Zoom Out

Sample Name: ticonf Acquired: 10/24/2018 23:46:05 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0003**	**.0006**
Stddev	.0004	.0006
%RSD	110.2	86.87
#1	-.0008	.0006
#2	-.0001	.0001
#3	-.0002	.0012

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99184.**	**4548.2**	**4370.4**	**11024.**
Stddev	314.	2.4	4.6	11.
%RSD	.31665	.05345	.10578	.10309
#1	98975.	4547.9	4375.5	11024.
#2	99032.	4550.7	4366.6	11036.
#3	99545.	4545.9	4368.9	11013.

Zoom In Zoom Out

Sample Name: moconf Acquired: 10/24/2018 23:51:47 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0002**	**.0003**	**-.0032**	**.0000**	**.0017**	**-.0006**	**.0000**	**-.0013**
Stddev	.0002	.0001	.0000	.0002	.0001	.0002	.0000	.0003	.0001
%RSD	47.38	28.03	13.66	5.634	202.8	14.29	3.821	797.1	9.463
#1	-.0005	.0002	.0003	-.0034	.0000	.0020	-.0006	-.0001	-.0014
#2	-.0002	.0003	.0003	-.0031	-.0000	.0015	-.0006	.0003	-.0011
#3	-.0004	.0003	.0002	-.0031	.0002	.0016	-.0006	-.0001	-.0013

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0046**	**.0002**	**-.0017**	**.0059**	**-.0011**	**.0007**	**.0006**	**-.0032**	**.0111**
Stddev	.0005	.0002	.0004	.0013	.0000	.0004	.0003	.0018	.0041
%RSD	11.89	83.11	25.33	22.65	.7884	55.89	46.75	57.21	36.90
#1	-.0040	.0004	-.0022	.0054	-.0011	.0003	.0007	-.0052	.0156
#2	-.0047	.0003	-.0014	.0050	-.0011	.0006	.0007	-.0016	.0104
#3	-.0050	.0000	-.0015	.0075	-.0011	.0011	.0003	-.0028	.0074

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018**	**.0500**	**-.0366**	**.0577**	**.1274**	F **10.90**	**-.0013**	**.0003**	**-.0001**
Stddev	.0019	.0169	.0183	.0040	.0009	.02	.0004	.0002	.0000
%RSD	105.4	33.88	50.05	6.871	.6962	.1667	30.37	63.99	65.81
#1	.0010	.0679	-.0421	.0560	.1273	10.89	-.0015	.0004	-.0000
#2	.0039	.0342	-.0162	.0622	.1266	10.89	-.0008	.0001	-.0000
#3	.0004	.0478	-.0516	.0548	.1284	10.92	-.0015	.0004	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0066**	**.0024**	**-.0021**	**.0273**	**-.0012**	**-.0001**	**.0008**
Stddev	.0001	.0009	.0001	.0010	.0003	.0003	.0008
%RSD	1.006	38.36	3.100	3.794	29.05	474.4	102.6
#1	-.0066	.0013	-.0021	.0283	-.0012	.0003	.0004
#2	-.0067	.0028	-.0020	.0262	-.0015	-.0002	.0002
#3	-.0066	.0030	-.0022	.0273	-.0008	-.0003	.0017

Zoom In Zoom Out

Sample Name: moconf Acquired: 10/24/2018 23:51:47 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99097.**	**4508.1**	**4354.7**	**11033.**
Stddev	387.	13.4	4.2	9.
%RSD	.39045	.29625	.09671	.07997
#1	98656.	4521.2	4354.4	11028.
#2	99379.	4508.7	4359.0	11043.
#3	99257.	4494.5	4350.6	11027.

Zoom In Zoom Out

Sample Name: mnconf Acquired: 10/24/2018 23:57:18 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0002**	**.0004**	**-.0001**	**.0003**	**.0001**	F **10.32**	**-.0001**
Stddev	.0002	.0001	.0000	.0001	.0001	.0001	.08	.0002
%RSD	196.7	59.64	8.100	84.08	24.03	108.1	.7419	353.0
#1	-.0001	-.0001	.0004	-.0000	.0003	.0002	10.30	.0002
#2	-.0002	-.0003	.0003	-.0001	.0003	.0000	10.26	-.0003
#3	.0001	-.0002	.0004	-.0002	.0002	.0000	10.41	-.0000

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0015**	**-.0012**	**-.0007**	F **-.0020**	**.0003**	**.0004**	**.0008**
Stddev	.0003	.0001	.0001	.0002	.0014	.0008	.0002	.0008
%RSD	31.39	8.848	5.100	22.75	70.40	286.5	54.88	101.0
#1	.0007	.0014	-.0011	-.0009	-.0004	.0007	.0006	.0003
#2	.0013	.0017	-.0012	-.0006	-.0024	-.0006	.0002	.0003
#3	.0009	.0015	-.0012	-.0006	-.0032	.0008	.0004	.0016

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0117**	**.0078**	**.0119**	**-.0296**	**-.0484**	**.0368**	**-.0027**	**.0142**
Stddev	.0068	.0008	.0015	.0136	.0219	.0047	.0005	.0030
%RSD	58.14	10.64	12.69	45.95	45.19	12.63	19.25	21.23
#1	.0187	.0071	.0101	-.0451	-.0650	.0367	-.0022	.0174
#2	.0112	.0076	.0125	-.0239	-.0236	.0322	-.0032	.0139
#3	.0052	.0088	.0129	-.0197	-.0566	.0415	-.0029	.0114

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0088**	**.0049**	**-.0000**	**.0004**	**-.0011**	**-.0005**	**.0081**	**.0008**
Stddev	.0007	.0007	.0001	.0003	.0003	.0001	.0004	.0009
%RSD	7.489	13.62	19340.	69.84	30.27	11.18	4.407	111.8
#1	-.0089	.0049	.0001	.0001	-.0007	-.0006	.0080	.0008
#2	-.0082	.0055	.0000	.0005	-.0014	-.0005	.0078	.0017
#3	-.0095	.0042	-.0001	.0005	-.0010	-.0005	.0085	-.0001

Zoom In Zoom Out

Sample Name: mnconf Acquired: 10/24/2018 23:57:18 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0005**	**.0217**
Stddev	.0007	.0004
%RSD	144.8	1.904
#1	-.0012	.0218
#2	-.0005	.0212
#3	.0002	.0220

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99002.**	**4452.6**	**4339.9**	**10979.**
Stddev	463.	11.5	11.4	9.
%RSD	.46768	.25837	.26185	.07779
#1	99255.	4456.0	4344.9	10978.
#2	99284.	4461.9	4347.8	10988.
#3	98468.	4439.7	4326.8	10971.

Zoom In Zoom Out

Sample Name: vconf Acquired: 10/25/2018 0:02:59 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**-.0006**	**.0004**	**-.0000**	**-.0002**	**.0006**	**-.0001**	**-.0004**	**.0016**
Stddev	.0001	.0001	.0001	.0001	.0000	.0002	.0000	.0002	.0004
%RSD	8.805	12.29	13.14	266.8	30.16	24.69	16.69	54.26	25.57
#1	.0006	-.0005	.0004	.0000	-.0002	.0008	-.0001	-.0003	.0016
#2	.0006	-.0006	.0004	-.0001	-.0002	.0006	-.0000	-.0002	.0011
#3	.0005	-.0006	.0005	.0000	-.0001	.0005	-.0001	-.0006	.0019

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.97**	**-.0010**	**.0020**	**.0015**	**.0007**	**.0023**	**.0017**	**.0205**	**-.0018**
Stddev	.05	.0002	.0013	.0006	.0010	.0017	.0007	.0104	.0024
%RSD	.4941	16.11	62.93	40.59	145.7	73.37	39.62	50.67	136.3
#1	11.01	-.0008	.0031	.0008	.0008	.0042	.0018	.0302	-.0005
#2	10.91	-.0011	.0023	.0019	.0016	.0010	.0023	.0095	-.0045
#3	11.00	-.0011	.0006	.0017	-.0003	.0017	.0010	.0219	-.0003

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030**	**.0298**	**-.0720**	**.0449**	**.0220**	**.0011**	**.2037**	**-.0001**	**.0004**
Stddev	.0044	.0244	.0155	.0042	.0004	.0006	.0104	.0001	.0001
%RSD	144.1	81.79	21.54	9.456	1.692	55.96	5.121	120.8	36.27
#1	.0030	.0353	-.0869	.0428	.0217	.0018	.1919	-.0002	.0005
#2	.0074	.0032	-.0560	.0420	.0224	.0009	.2073	.0000	.0002
#3	-.0013	.0510	-.0731	.0497	.0218	.0006	.2118	-.0001	.0004

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0011**	**.0188**	**-.0387**	**.0049**	**-.0000**	**-.0038**
Stddev	.0001	.0003	.0017	.0003	.0008	.0004	.0014
%RSD	998.7	21.98	9.102	.7981	16.05	1480.	36.38
#1	-.0001	-.0014	.0206	-.0389	.0046	-.0005	-.0022
#2	.0001	-.0009	.0187	-.0384	.0042	.0002	-.0046
#3	-.0000	-.0012	.0172	-.0389	.0057	.0002	-.0046

Zoom In Zoom Out

Sample Name: vconf Acquired: 10/25/2018 0:02:59 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98794.**	**4455.4**	**4357.8**	**11015.**
Stddev	275.	8.7	1.7	12.
%RSD	.27881	.19488	.03948	.10631
#1	98514.	4460.8	4359.8	11006.
#2	99064.	4460.0	4356.7	11012.
#3	98804.	4445.4	4357.0	11029.

Zoom In Zoom Out

Sample Name: siconf Acquired: 10/25/2018 0:08:40 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0000**	**.0000**	**-.0003**	**-.0002**	**-.0001**	**.0000**	**-.0004**	**-.0006**
Stddev	.0002	.0000	.0000	.0000	.0002	.0003	.0000	.0002	.0003
%RSD	212.2	247.7	112.1	17.35	81.10	341.0	35.78	57.12	56.88
#1	.0003	-.0000	.0000	-.0002	-.0002	-.0001	.0001	-.0004	-.0005
#2	-.0001	.0000	.0001	-.0003	-.0005	.0002	.0001	-.0002	-.0003
#3	.0001	-.0000	-.0000	-.0003	-.0001	-.0004	.0000	-.0007	-.0009

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0024**	**.0006**	**-.0002**	**-.0002**	**.0016**	**.0011**	**.0017**	**-.0044**
Stddev	.0001	.0002	.0004	.0016	.0006	.0014	.0008	.0003	.0021
%RSD	43.13	7.659	71.79	667.4	306.3	83.85	74.36	15.63	48.31
#1	.0003	-.0026	.0002	-.0007	-.0009	.0006	.0009	.0015	-.0055
#2	.0001	-.0023	.0010	.0016	-.0001	.0011	.0004	.0020	-.0057
#3	.0002	-.0023	.0006	-.0016	.0004	.0032	.0020	.0016	-.0020

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031**	**.0086**	**-.0538**	**.0307**	**-.0032**	**-.0004**	**10.29**	**.0001**	**.0001**
Stddev	.0020	.0134	.0304	.0013	.0003	.0002	.01	.0004	.0002
%RSD	67.12	155.8	56.41	4.156	8.540	55.98	.1159	810.6	204.0
#1	.0025	-.0041	-.0222	.0305	-.0034	-.0002	10.28	-.0004	-.0001
#2	.0053	.0073	-.0827	.0296	-.0029	-.0006	10.31	.0002	.0002
#3	.0014	.0225	-.0566	.0321	-.0033	-.0003	10.29	.0004	.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0017**	**.0080**	**.0019**	**-.0003**	**-.0006**	**.0019**
Stddev	.0001	.0004	.0002	.0014	.0018	.0006	.0007
%RSD	57.66	26.15	2.062	75.99	558.5	103.9	33.95
#1	.0002	-.0012	.0082	.0003	-.0004	-.0013	.0023
#2	.0003	-.0020	.0080	.0031	-.0021	-.0004	.0023
#3	.0001	-.0018	.0079	.0021	.0015	-.0001	.0012

Zoom In Zoom Out

Sample Name: siconf Acquired: 10/25/2018 0:08:40 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98832.**	**4475.1**	**4349.5**	**10990.**
Stddev	202.	15.1	3.0	3.
%RSD	.20488	.33847	.06793	.02668
#1	98944.	4480.0	4348.6	10987.
#2	98598.	4458.1	4347.0	10993.
#3	98954.	4487.2	4352.8	10990.

Zoom In Zoom Out

Sample Name: sconf Acquired: 10/25/2018 0:14:13 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**-.0000**	**-.0001**	**.0001**	**-.0004**	**.0001**	**-.0001**	**-.0006**
Stddev	.0001	.0000	.0000	.0001	.0001	.0002	.0000	.0001	.0001
%RSD	58.07	69.19	84.01	167.3	119.0	54.47	28.54	96.37	12.81
#1	.0002	.0000	-.0001	.0000	-.0000	-.0002	.0001	-.0000	-.0005
#2	.0001	.0001	-.0000	-.0002	.0002	-.0004	.0000	-.0002	-.0005
#3	.0003	.0001	-.0000	-.0000	.0001	-.0005	.0001	-.0001	-.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0009**	**.0003**	**.0024**	**.0013**	**.0016**	**-.0001**	**.0091**	**-.0071**
Stddev	.0002	.0000	.0002	.0021	.0008	.0022	.0009	.0115	.0047
%RSD	161.3	5.658	64.42	86.84	64.57	137.1	1011.	126.2	66.43
#1	-.0003	-.0009	.0001	.0033	.0021	-.0009	.0009	-.0035	-.0088
#2	-.0000	-.0008	.0004	.0000	.0012	.0029	-.0006	.0118	-.0107
#3	-.0000	-.0009	.0004	.0038	.0005	.0029	-.0006	.0190	-.0018

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052**	**-.0159**	**-.0667**	**.0270**	**-.0031**	**-.0014**	**.0052**	**.0001**	**-.0001**
Stddev	.0055	.0106	.0051	.0020	.0007	.0001	.0004	.0004	.0001
%RSD	104.7	66.67	7.682	7.566	22.30	9.248	8.015	250.9	93.27
#1	.0112	-.0074	-.0674	.0277	-.0027	-.0013	.0056	.0001	-.0002
#2	.0041	-.0125	-.0613	.0247	-.0039	-.0013	.0048	-.0002	-.0000
#3	.0004	-.0277	-.0715	.0286	-.0027	-.0015	.0052	.0005	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0012**	**.0000**	F **109.7**	**.0004**	**-.0007**	**.0013**
Stddev	.0002	.0008	.0000	.2	.0011	.0006	.0005
%RSD	69.39	63.22	201.5	.1597	291.4	86.14	36.56
#1	.0004	-.0018	.0000	109.8	-.0001	-.0013	.0016
#2	.0002	-.0003	-.0000	109.5	-.0004	-.0003	.0014
#3	.0001	-.0015	.0000	109.8	.0017	-.0003	.0007

Zoom In Zoom Out

Sample Name: sconf Acquired: 10/25/2018 0:14:13 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99060.**	**4483.5**	**4356.8**	**11049.**
Stddev	220.	8.4	12.0	17.
%RSD	.22232	.18754	.27616	.15223
#1	98882.	4493.2	4345.4	11034.
#2	98992.	4479.0	4369.4	11067.
#3	99306.	4478.4	4355.8	11045.

Zoom In Zoom Out

Sample Name: alconf Acquired: 10/25/2018 0:19:46 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0000**	**-.0001**	**.0001**	**-.0003**	**.0008**	**-.0008**	**-.0012**	**-.0014**
Stddev	.0002	.0000	.0001	.0003	.0000	.0001	.0000	.0003	.0002
%RSD	202.8	1341.	69.03	392.7	16.14	16.88	6.220	25.49	11.02
#1	.0001	-.0000	-.0002	.0002	-.0003	.0007	-.0007	-.0013	-.0016
#2	.0002	-.0000	-.0000	.0002	-.0003	.0009	-.0008	-.0015	-.0013
#3	-.0001	.0000	-.0002	-.0002	-.0002	.0009	-.0008	-.0009	-.0013

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0017**	**-.0006**	**.0009**	**.0011**	**-.0030**	**.0005**	F **561.2**	**-.0303**
Stddev	.0002	.0001	.0003	.0038	.0019	.0022	.0011	1.4	.0034
%RSD	191.0	5.280	55.64	399.1	168.6	72.54	223.9	.2528	11.36
#1	-.0003	-.0016	-.0005	.0014	.0017	-.0009	-.0008	559.6	-.0325
#2	-.0001	-.0017	-.0010	.0045	.0027	-.0052	.0009	562.3	-.0320
#3	.0001	-.0018	-.0003	-.0030	-.0010	-.0028	.0013	561.7	-.0263

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0086**	**-.0280**	**-.0434**	**.0254**	**-.0042**	**-.0031**	**-.0097**	**-.0023**	**-.0001**
Stddev	.0020	.0086	.0411	.0067	.0016	.0004	.0013	.0010	.0002
%RSD	23.86	30.89	94.76	26.42	38.43	13.03	13.39	41.76	149.8
#1	-.0062	-.0370	-.0410	.0298	-.0058	-.0033	-.0086	-.0019	-.0003
#2	-.0095	-.0272	-.0035	.0286	-.0041	-.0026	-.0111	-.0034	-.0001
#3	-.0100	-.0197	-.0856	.0177	-.0026	-.0033	-.0093	-.0016	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0063**	**-.0007**	**-.0014**	**-.0002**	**.0003**	**.0143**
Stddev	.0003	.0007	.0001	.0014	.0004	.0005	.0012
%RSD	54.34	11.46	16.82	99.07	193.7	137.1	8.432
#1	.0007	.0061	-.0006	-.0014	.0003	.0005	.0131
#2	.0002	.0070	-.0007	-.0000	-.0005	.0007	.0155
#3	.0006	.0056	-.0008	-.0029	-.0004	-.0002	.0143

Zoom In Zoom Out

Sample Name: alconf Acquired: 10/25/2018 0:19:46 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95609.**	**4233.1**	**4371.3**	**10292.**
Stddev	702.	21.5	15.0	14.
%RSD	.73433	.50816	.34425	.13656
#1	96339.	4253.9	4388.7	10306.
#2	94938.	4234.4	4364.0	10290.
#3	95550.	4210.9	4361.4	10278.

Zoom In Zoom Out

Sample Name: caconf Acquired: 10/25/2018 0:25:12 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**-.0001**	**-.0003**	**-.0004**	**.0003**	**.0008**	**.0002**	**-.0005**
Stddev	.0002	.0001	.0002	.0002	.0001	.0002	.0000	.0001
%RSD	32.66	62.38	57.23	38.85	43.94	23.71	16.93	26.23
#1	.0006	-.0001	-.0003	-.0002	.0002	.0006	.0002	-.0006
#2	.0005	-.0001	-.0001	-.0005	.0002	.0010	.0001	-.0004
#3	.0009	-.0002	-.0004	-.0005	.0004	.0007	.0001	-.0005

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**-.0002**	**-.0016**	**-.0000**	F **-.0025**	**-.0010**	**.0016**	**-.0003**
Stddev	.0001	.0003	.0002	.0006	.0025	.0006	.0017	.0003
%RSD	4.468	147.3	11.52	1345.	96.62	55.99	103.0	110.0
#1	.0017	.0001	-.0017	.0005	-.0028	-.0017	.0001	-.0003
#2	.0016	-.0006	-.0017	-.0000	.0000	-.0007	.0014	-.0006
#3	.0018	-.0003	-.0014	-.0007	-.0049	-.0007	.0034	.0000

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0014**	F **438.5**	**-.0021**	**-.0013**	**-.0345**	**.0514**	**-.0030**	**-.0019**
Stddev	.0050	1.0	.0052	.0496	.0094	.0056	.0007	.0002
%RSD	358.8	.2262	249.3	3848.	27.13	10.85	25.15	9.169
#1	.0038	438.7	-.0012	.0225	-.0448	.0450	-.0037	-.0020
#2	-.0019	437.4	.0026	.0319	-.0321	.0547	-.0029	-.0017
#3	-.0061	439.3	-.0076	-.0583	-.0266	.0546	-.0022	-.0018

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**-.0003**	**-.0047**	**.0039**	**.0004**	**.0003**	**-.0089**	**-.0005**
Stddev	.0004	.0009	.0002	.0004	.0010	.0001	.0004	.0012
%RSD	23.98	281.4	4.962	9.909	267.8	22.37	4.415	253.4
#1	.0019	-.0003	-.0048	.0043	-.0003	.0003	-.0089	-.0019
#2	.0012	-.0012	-.0049	.0038	-.0001	.0002	-.0092	.0003
#3	.0015	.0005	-.0044	.0036	.0016	.0004	-.0085	.0002

Zoom In Zoom Out

Sample Name: caconf Acquired: 10/25/2018 0:25:12 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0001**	**.0006**
Stddev	.0008	.0005
%RSD	1146.	90.18
#1	-.0007	.0007
#2	.0008	.0011
#3	.0002	.0000

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**91405.**	**4326.0**	**3980.1**	**9770.1**
Stddev	406.	17.2	10.3	12.6
%RSD	.44397	.39727	.25871	.12867
#1	90988.	4320.5	3974.2	9762.8
#2	91430.	4345.2	3974.1	9762.9
#3	91798.	4312.2	3992.0	9784.6

Zoom In Zoom Out

Sample Name: mgconf Acquired: 10/25/2018 0:30:46 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**-.0000**	**.0005**	**-.0007**	**-.0003**	**.0001**	**.0017**	**.0000**	**.0004**
Stddev	.0001	.0000	.0001	.0002	.0001	.0001	.0001	.0004	.0003
%RSD	10.83	102.5	23.60	32.41	41.97	100.1	3.209	6813.	62.25
#1	.0009	-.0000	.0005	-.0008	-.0004	.0001	.0018	.0004	.0001
#2	.0008	-.0000	.0004	-.0008	-.0002	.0002	.0017	-.0001	.0005
#3	.0010	.0000	.0006	-.0004	-.0003	.0000	.0017	-.0003	.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0053**	**-.0003**	**.0002**	**-.0006**	**.0004**	**-.0010**	**-.0070**	**.0735**
Stddev	.0001	.0001	.0009	.0007	.0013	.0008	.0014	.0153	.0029
%RSD	39.96	1.869	301.9	297.2	229.4	176.0	144.4	218.6	3.919
#1	.0002	.0054	.0007	.0003	-.0000	.0001	-.0001	-.0179	.0727
#2	.0004	.0052	-.0005	.0009	-.0020	.0013	-.0026	-.0136	.0768
#3	.0003	.0053	-.0010	-.0005	.0004	-.0001	-.0002	.0105	.0712

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	F **537.9**	**-.0397**	**.0919**	**-.0024**	**.0011**	**.0051**	**.0008**	**.0001**
Stddev	.0028	.7	.0081	.0051	.0001	.0004	.0007	.0006	.0001
%RSD	218.2	.1388	20.46	5.526	5.825	32.09	13.33	76.85	137.0
#1	.0042	538.0	-.0392	.0868	-.0025	.0011	.0059	.0009	.0000
#2	-.0013	537.1	-.0319	.0970	-.0022	.0015	.0049	.0002	.0002
#3	.0010	538.6	-.0481	.0918	-.0024	.0008	.0046	.0014	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0013**	**-.0000**	**.0314**	**-.0016**	**.0006**	**.0023**
Stddev	.0001	.0005	.0001	.0016	.0003	.0004	.0005
%RSD	14.30	36.35	204100.	5.104	17.50	64.67	21.04
#1	.0007	-.0008	.0001	.0296	-.0016	.0008	.0027
#2	.0007	-.0017	-.0001	.0321	-.0019	.0008	.0025
#3	.0009	-.0013	.0001	.0326	-.0014	.0002	.0018

Zoom In Zoom Out

Sample Name: mgconf Acquired: 10/25/2018 0:30:46 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**91765.**	**4344.5**	**4037.5**	**9906.0**
Stddev	725.	12.6	5.4	14.5
%RSD	.78968	.29023	.13345	.14673
#1	91443.	4345.5	4034.8	9906.1
#2	91257.	4356.6	4033.9	9891.4
#3	92595.	4331.4	4043.7	9920.5

Zoom In Zoom Out

Sample Name: cuconf Acquired: 10/25/2018 0:36:19 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**-.0001**	**.0000**	**-.0001**	F **10.04**	**.0000**	**-.0002**
Stddev	.0002	.0001	.0001	.0001	.0001	.02	.0000	.0003
%RSD	309.2	906.0	139.9	1086.	71.46	.1745	494.3	145.0
#1	.0004	.0001	-.0002	-.0000	-.0000	10.02	-.0000	-.0005
#2	-.0001	-.0001	.0000	-.0000	-.0001	10.05	-.0000	.0001
#3	-.0000	.0000	-.0001	.0001	-.0002	10.05	.0000	-.0003

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**-.0001**	**-.0012**	**-.0001**	**-.0003**	**-.0001**	**.0015**	**-.0002**
Stddev	.0001	.0002	.0001	.0007	.0015	.0005	.0013	.0006
%RSD	9.556	141.4	9.248	871.9	500.6	651.3	89.29	400.7
#1	-.0007	-.0000	-.0013	.0005	.0012	.0001	.0011	-.0009
#2	-.0008	.0000	-.0012	-.0008	-.0004	-.0007	.0004	.0003
#3	-.0008	-.0003	-.0011	.0001	-.0018	.0003	.0030	.0001

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0070**	**-.0021**	**.0005**	**-.0178**	**-.0587**	**.0364**	**-.0031**	**-.0019**
Stddev	.0076	.0011	.0022	.0397	.0203	.0097	.0006	.0003
%RSD	108.6	52.73	467.3	222.8	34.65	26.77	17.84	16.48
#1	-.0018	-.0033	-.0019	.0279	-.0367	.0472	-.0037	-.0017
#2	.0115	-.0013	.0024	-.0428	-.0768	.0335	-.0026	-.0018
#3	.0112	-.0016	.0009	-.0385	-.0626	.0284	-.0030	-.0023

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035**	**-.0005**	**-.0001**	**.0002**	**-.0037**	**-.0000**	**.0026**	**.0073**
Stddev	.0008	.0003	.0002	.0003	.0005	.0001	.0007	.0005
%RSD	22.71	64.91	123.9	142.9	13.70	394.6	26.75	7.193
#1	.0027	-.0007	-.0002	.0001	-.0038	.0001	.0023	.0069
#2	.0043	-.0001	-.0002	.0005	-.0041	-.0001	.0021	.0070
#3	.0035	-.0008	.0001	-.0000	-.0031	-.0001	.0034	.0079

Zoom In Zoom Out

Sample Name: cuconf Acquired: 10/25/2018 0:36:19 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0009**	W **-.0239**
Stddev	.0006	.0008
%RSD	73.95	3.313
#1	-.0011	-.0230
#2	-.0002	-.0245
#3	-.0014	-.0243

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98469.**	**4514.2**	**4335.7**	**11015.**
Stddev	454.	24.1	7.7	3.
%RSD	.46059	.53305	.17742	.02360
#1	98948.	4539.0	4337.7	11012.
#2	98411.	4512.8	4327.2	11015.
#3	98047.	4490.9	4342.2	11018.

Zoom In Zoom Out

Sample Name: niconf Acquired: 10/25/2018 0:42:02 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0000**	**-.0002**	**.0013**	**-.0001**	**-.0008**	**.0000**	F **10.77**	**-.0003**
Stddev	.0002	.0001	.0002	.0002	.0002	.0002	.0000	.01	.0003
%RSD	685.6	470.3	87.10	14.48	107.9	22.99	75.26	.1336	83.53
#1	.0002	.0000	-.0000	.0015	-.0000	-.0009	.0000	10.79	-.0002
#2	-.0002	.0000	-.0003	.0012	-.0001	-.0008	.0000	10.76	-.0006
#3	.0001	-.0001	-.0005	.0013	-.0003	-.0006	.0000	10.76	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**-.0019**	**.0019**	**-.0008**	**-.0003**	**.0010**	**.0008**	**.0071**	**-.0093**
Stddev	.0001	.0000	.0008	.0007	.0011	.0008	.0006	.0061	.0082
%RSD	16.62	.8595	42.56	87.81	382.7	76.50	75.74	86.08	88.65
#1	.0004	-.0019	.0029	-.0015	-.0012	.0009	.0001	.0053	-.0129
#2	.0003	-.0019	.0016	-.0006	.0009	.0003	.0010	.0020	-.0150
#3	.0004	-.0019	.0013	-.0002	-.0005	.0018	.0012	.0138	.0001

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0055**	**-.0020**	**-.0604**	**.0280**	**-.0037**	**-.0017**	**.0049**	**-.0012**	**-.0002**
Stddev	.0017	.0203	.0228	.0055	.0003	.0001	.0003	.0008	.0001
%RSD	31.49	1025.	37.73	19.63	7.676	8.073	6.634	68.65	51.27
#1	.0062	.0193	-.0636	.0310	-.0038	-.0017	.0053	-.0003	-.0003
#2	.0035	-.0041	-.0813	.0217	-.0039	-.0019	.0046	-.0014	-.0001
#3	.0067	-.0211	-.0361	.0314	-.0034	-.0016	.0049	-.0019	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0031**	**.0000**	**-.0007**	**-.0013**	**-.0011**	**.0128**
Stddev	.0002	.0010	.0001	.0008	.0003	.0001	.0010
%RSD	149.6	31.62	263.4	106.4	21.32	4.525	8.006
#1	.0004	-.0026	-.0000	.0001	-.0015	-.0011	.0120
#2	-.0001	-.0043	.0001	-.0014	-.0010	-.0011	.0139
#3	.0002	-.0025	-.0000	-.0009	-.0014	-.0012	.0124

Zoom In Zoom Out

Sample Name: niconf Acquired: 10/25/2018 0:42:02 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99138.**	**4444.6**	**4348.1**	**11023.**
Stddev	487.	20.6	4.9	16.
%RSD	.49134	.46369	.11166	.14309
#1	99662.	4464.8	4343.9	11004.
#2	99050.	4423.6	4346.9	11031.
#3	98700.	4445.5	4353.4	11032.

Zoom In Zoom Out

Sample Name: coconf Acquired: 10/25/2018 0:47:34 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**.0007**	F **10.84**	**-.0000**	**-.0007**	**-.0000**	**-.0035**	**-.0005**
Stddev	.0001	.0001	.0000	.02	.0001	.0001	.0000	.0001	.0001
%RSD	133.4	340.0	3.973	.1539	939.6	20.25	125.5	3.507	12.22
#1	.0001	.0000	.0007	10.86	.0001	-.0006	-.0001	-.0035	-.0006
#2	-.0000	-.0001	.0007	10.83	-.0001	-.0009	-.0000	-.0036	-.0005
#3	.0002	.0001	.0007	10.83	-.0001	-.0006	-.0000	-.0034	-.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**-.0025**	**.0007**	**.0018**	**-.0005**	**.0003**	**.0019**	**.0053**	**-.0290**
Stddev	.0001	.0001	.0006	.0007	.0001	.0013	.0005	.0066	.0036
%RSD	7.443	2.254	94.11	40.77	27.04	372.9	26.10	125.4	12.25
#1	.0013	-.0026	.0014	.0018	-.0004	.0010	.0015	.0082	-.0291
#2	.0013	-.0025	.0003	.0010	-.0007	.0012	.0017	.0100	-.0254
#3	.0012	-.0025	.0004	.0025	-.0005	-.0012	.0025	-.0023	-.0325

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0015**	**.0059**	**-.0686**	**.0280**	**-.0040**	**-.0020**	**-.0023**	**-.0002**	**-.0001**
Stddev	.0032	.0372	.0139	.0061	.0002	.0002	.0004	.0004	.0001
%RSD	223.4	625.3	20.28	21.85	4.804	10.97	15.58	254.9	103.6
#1	-.0031	-.0364	-.0840	.0325	-.0039	-.0018	-.0027	-.0006	-.0002
#2	-.0035	.0211	-.0648	.0304	-.0042	-.0020	-.0019	.0002	.0000
#3	.0023	.0332	-.0570	.0210	-.0038	-.0023	-.0024	-.0001	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0036**	**.0001**	**.0019**	**-.0171**	**.0004**	**.0019**
Stddev	.0001	.0007	.0001	.0013	.0005	.0010	.0004
%RSD	119.8	20.36	172.1	68.42	2.970	260.9	21.14
#1	.0001	-.0035	.0000	.0032	-.0177	-.0008	.0018
#2	.0002	-.0030	-.0000	.0006	-.0168	.0011	.0015
#3	-.0000	-.0045	.0002	.0019	-.0168	.0009	.0023

Zoom In Zoom Out

Sample Name: coconf Acquired: 10/25/2018 0:47:34 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99245.**	**4461.8**	**4340.4**	**11046.**
Stddev	633.	22.0	6.9	17.
%RSD	.63830	.49315	.15887	.15334
#1	98607.	4486.1	4332.4	11027.
#2	99874.	4443.2	4343.6	11051.
#3	99254.	4456.1	4345.1	11060.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 0:53:08 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.992**	**2.021**	**2.017**	**2.041**	**2.002**	**1.985**	**2.051**	**2.042**	**.2419**
Stddev	.001	.003	.005	.005	.019	.020	.020	.006	.0019
%RSD	.0551	.1611	.2323	.2503	.9672	.9812	.9543	.3025	.7923
#1	1.991	2.019	2.022	2.047	2.023	2.005	2.071	2.049	.2439
#2	1.992	2.025	2.013	2.037	1.984	1.966	2.032	2.037	.2401
#3	1.993	2.019	2.017	2.039	2.000	1.984	2.050	2.041	.2416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.000**	**2.092**	**2.026**	**2.011**	**2.059**	**2.049**	**2.031**	**39.91**	**39.50**
Stddev	.019	.006	.009	.005	.004	.007	.005	.05	.18
%RSD	.9407	.3029	.4388	.2668	.2126	.3344	.2486	.1185	.4680
#1	2.020	2.097	2.035	2.015	2.064	2.056	2.036	39.85	39.36
#2	1.982	2.085	2.017	2.005	2.055	2.043	2.027	39.94	39.71
#3	1.999	2.094	2.025	2.012	2.058	2.048	2.028	39.93	39.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.71**	**39.01**	**38.72**	**39.57**	**2.049**	**2.047**	**5.227**	**2.054**	**2.004**
Stddev	.11	.20	.03	.04	.005	.005	.014	.007	.001
%RSD	.2845	.5073	.0728	.0989	.2485	.2653	.2735	.3497	.0703
#1	38.65	38.80	38.68	39.52	2.054	2.052	5.242	2.062	2.002
#2	38.84	39.19	38.73	39.60	2.044	2.041	5.213	2.048	2.004
#3	38.65	39.03	38.74	39.58	2.049	2.047	5.225	2.053	2.005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 0:53:08 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.998**	**1.997**	**2.013**	**1.992**	**2.026**	**2.002**	**2.046**
Stddev	.019	.006	.020	.005	.007	.003	.007
%RSD	.9320	.3172	1.009	.2522	.3359	.1478	.3391
#1	2.017	2.001	2.033	1.998	2.034	2.004	2.053
#2	1.980	1.990	1.992	1.988	2.022	1.999	2.039
#3	1.998	2.001	2.015	1.991	2.021	2.005	2.045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96422.**	**4446.5**	**4187.4**	**10276.**
Stddev	902.	20.2	9.0	22.
%RSD	.93511	.45317	.21386	.21136
#1	95472.	4462.9	4178.0	10251.
#2	97266.	4424.0	4195.8	10288.
#3	96528.	4452.6	4188.4	10289.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 0:58:13 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**.0001**	**.0000**	**-.0000**	**-.0005**	**.0000**	**-.0002**	**-.0006**
Stddev	.0002	.0001	.0000	.0002	.0001	.0001	.0000	.0001	.0001
%RSD	203.9	193.8	37.53	441.8	430.1	11.75	71.04	39.31	14.42
#1	.0001	-.0000	.0001	.0000	-.0001	-.0005	.0000	-.0003	-.0007
#2	.0003	.0002	.0001	.0002	.0001	-.0004	.0000	-.0001	-.0007
#3	-.0001	.0000	.0002	-.0001	-.0001	-.0005	.0000	-.0002	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0005**	**.0003**	**-.0005**	**.0001**	**.0005**	**.0001**	**.0145**	**-.0104**
Stddev	.0002	.0000	.0003	.0011	.0003	.0001	.0003	.0074	.0033
%RSD	260.8	7.998	91.20	235.0	375.6	28.81	195.4	51.04	31.99
#1	-.0002	-.0005	.0001	-.0004	.0000	.0006	.0002	.0063	-.0081
#2	.0003	-.0005	.0006	.0006	.0004	.0005	-.0002	.0206	-.0088
#3	.0002	-.0005	.0003	-.0017	-.0002	.0003	.0004	.0166	-.0142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0040**	**-.0001**	**-.0442**	**.0341**	**-.0020**	**.0007**	**-.0018**	**.0000**	**-.0001**
Stddev	.0029	.0261	.0117	.0081	.0007	.0005	.0002	.0008	.0002
%RSD	72.91	19180.	26.41	23.69	35.76	60.54	11.80	2063.	155.6
#1	.0020	.0273	-.0397	.0349	-.0012	.0013	-.0017	-.0007	.0000
#2	.0026	-.0029	-.0355	.0257	-.0024	.0006	-.0021	.0009	-.0001
#3	.0074	-.0248	-.0575	.0418	-.0024	.0004	-.0017	-.0001	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 0:58:13 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0004**	**.0001**	**.0001**	**-.0014**	**-.0006**	**.0013**
Stddev	.0001	.0014	.0000	.0026	.0004	.0002	.0004
%RSD	137.9	372.7	11.12	1905.	30.51	25.08	33.88
#1	.0000	.0011	.0001	-.0016	-.0013	-.0008	.0010
#2	-.0002	-.0006	.0001	.0031	-.0010	-.0005	.0018
#3	-.0001	-.0017	.0001	-.0011	-.0018	-.0007	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98736.**	**4419.0**	**4366.1**	**11058.**
Stddev	421.	12.5	2.7	23.
%RSD	.42667	.28227	.06167	.21221
#1	98975.	4405.2	4368.3	11034.
#2	98983.	4422.3	4363.1	11060.
#3	98249.	4429.4	4366.8	11081.

Zoom In Zoom Out

Sample Name: mp9793-mb1 Acquired: 10/25/2018 1:03:47 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: water

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0001**	**-.0002**	**.0001**	**-.0000**	**.0000**	**-.0003**	**-.0006**
Stddev	.0002	.0001	.0001	.0002	.0001	.0001	.0000	.0000	.0002
%RSD	87.05	83.12	174.8	89.64	111.9	1023.	81.14	7.235	32.29
#1	.0001	.0001	-.0001	-.0004	.0000	.0000	.0000	-.0003	-.0005
#2	.0001	.0001	.0002	-.0004	.0002	-.0001	.0000	-.0003	-.0009
#3	.0004	.0000	.0001	.0000	.0000	.0000	.0000	-.0003	-.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0006**	**.0014**	**-.0019**	**-.0006**	**.0019**	**.0004**	**.0179**	**.0139**
Stddev	.0001	.0002	.0005	.0013	.0011	.0009	.0010	.0125	.0015
%RSD	138.4	25.46	31.99	67.37	198.2	44.31	276.0	69.89	10.82
#1	.0000	.0004	.0016	-.0024	-.0007	.0022	.0003	.0227	.0134
#2	-.0001	.0007	.0017	-.0028	-.0017	.0026	.0013	.0037	.0127
#3	-.0001	.0006	.0009	-.0004	.0006	.0010	-.0006	.0274	.0156

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026**	**.0492**	**-.0494**	**.0272**	**-.0025**	**.0002**	**.0032**	**.0011**	**-.0001**
Stddev	.0043	.0329	.0167	.0057	.0003	.0002	.0003	.0003	.0002
%RSD	166.1	66.82	33.83	21.07	13.30	137.2	10.69	30.56	133.8
#1	.0032	.0142	-.0388	.0338	-.0025	.0004	.0029	.0014	-.0000
#2	-.0020	.0794	-.0407	.0247	-.0022	.0000	.0036	.0011	-.0000
#3	.0066	.0540	-.0687	.0232	-.0028	.0000	.0031	.0008	-.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0064**	**.0007**	**.0024**	**-.0004**	**-.0003**	**.0022**
Stddev	.0004	.0005	.0001	.0035	.0005	.0004	.0009
%RSD	307.9	7.556	11.31	144.7	114.6	149.0	38.75
#1	-.0001	.0066	.0006	-.0002	-.0010	-.0007	.0029
#2	-.0001	.0058	.0007	.0010	-.0003	-.0002	.0013
#3	.0005	.0068	.0008	.0064	.0000	.0001	.0026

Zoom In Zoom Out

Sample Name: mp9793-mb1 Acquired: 10/25/2018 1:03:47 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: water

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97816.**	**4433.6**	**4283.9**	**10888.**
Stddev	404.	26.3	3.3	6.
%RSD	.41295	.59385	.07641	.05792
#1	97365.	4450.9	4287.6	10881.
#2	98144.	4446.6	4282.2	10889.
#3	97940.	4403.3	4281.8	10894.

Zoom In Zoom Out

Sample Name: mp9793-b1 Acquired: 10/25/2018 1:09:20 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.935**	**1.990**	**1.953**	**1.984**	**1.963**	**1.965**	**2.031**	**1.974**
Stddev	.002	.003	.003	.004	.008	.006	.008	.002
%RSD	.1165	.1663	.1612	.2073	.4027	.3193	.4047	.1240
#1	1.937	1.994	1.957	1.989	1.972	1.970	2.041	1.976
#2	1.933	1.987	1.952	1.983	1.958	1.958	2.026	1.972
#3	1.935	1.988	1.950	1.981	1.959	1.967	2.028	1.973

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2409**	**1.966**	**2.032**	**1.987**	**1.935**	**1.992**	**1.976**	**2.010**
Stddev	.0006	.007	.003	.004	.011	.009	.003	.005
%RSD	.2676	.3625	.1496	.1853	.5452	.4477	.1500	.2370
#1	.2417	1.975	2.036	1.990	1.943	2.002	1.972	2.012
#2	.2408	1.962	2.031	1.983	1.940	1.984	1.978	2.005
#3	.2404	1.963	2.031	1.988	1.923	1.991	1.976	2.014

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.38**	**25.05**	**24.73**	**24.60**	**24.30**	**25.20**	**1.985**	**2.037**
Stddev	.06	.10	.03	.15	.07	.05	.007	.001
%RSD	.2231	.3887	.1114	.5909	.2759	.1911	.3568	.0499
#1	25.43	25.17	24.76	24.76	24.37	25.26	1.984	2.038
#2	25.32	24.99	24.71	24.47	24.23	25.19	1.979	2.036
#3	25.40	25.00	24.71	24.58	24.30	25.16	1.993	2.038

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0219**	**2.030**	**1.951**	**1.994**	**1.892**	**2.018**	F **-.2160**	**-.0099**
Stddev	.0008	.003	.003	.007	.003	.006	.0008	.0014
%RSD	3.819	.1518	.1696	.3553	.1676	.2979	.3656	14.54
#1	-.0217	2.033	1.955	2.002	1.891	2.025	-.2168	-.0085
#2	-.0212	2.027	1.948	1.989	1.891	2.013	-.2152	-.0099
#3	-.0228	2.031	1.950	1.991	1.896	2.018	-.2159	-.0114

Zoom In Zoom Out

Sample Name: mp9793-b1 Acquired: 10/25/2018 1:09:20 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0001**	**2.000**
Stddev	.0002	.004
%RSD	325.3	.2167
#1	-.0002	1.995
#2	.0002	2.003
#3	-.0002	2.002

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95902.**	**4439.9**	**4177.0**	**10396.**
Stddev	277.	22.0	3.1	8.
%RSD	.28918	.49486	.07436	.08075
#1	95600.	4415.5	4176.5	10387.
#2	96145.	4458.1	4180.4	10403.
#3	95962.	4446.1	4174.3	10398.

Zoom In Zoom Out

Sample Name: mp9793-b3 Acquired: 10/25/2018 1:14:27 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.955**	**2.046**	**1.971**	**2.004**	**1.981**	**1.987**	**2.053**	**1.997**
Stddev	.003	.000	.003	.004	.009	.007	.011	.005
%RSD	.1406	.0207	.1655	.1963	.4688	.3587	.5428	.2618
#1	1.952	2.046	1.968	2.001	1.986	1.993	2.060	1.992
#2	1.957	2.045	1.974	2.009	1.987	1.989	2.059	2.002
#3	1.956	2.045	1.972	2.004	1.970	1.979	2.040	1.998

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2433**	**1.984**	**2.058**	**2.006**	**1.945**	**2.017**	**2.000**	**2.031**
Stddev	.0006	.008	.004	.004	.009	.007	.005	.003
%RSD	.2565	.4147	.1691	.1757	.4548	.3679	.2450	.1217
#1	.2441	1.989	2.056	2.004	1.936	2.009	1.994	2.029
#2	.2429	1.988	2.062	2.010	1.954	2.024	2.004	2.034
#3	.2431	1.975	2.057	2.005	1.945	2.016	2.000	2.031

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.94**	**25.50**	**25.14**	**25.13**	**24.58**	**25.65**	**2.006**	**2.061**
Stddev	.02	.03	.04	.04	.03	.02	.010	.005
%RSD	.0598	.1267	.1771	.1433	.1035	.0646	.4861	.2477
#1	25.95	25.50	25.19	25.10	24.58	25.65	1.995	2.056
#2	25.92	25.47	25.10	25.12	24.60	25.64	2.014	2.066
#3	25.95	25.53	25.15	25.17	24.55	25.67	2.010	2.063

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062**	**2.050**	**1.975**	**2.012**	**1.900**	**2.045**	F **-.2207**	**-.0095**
Stddev	.0009	.004	.002	.008	.007	.008	.0006	.0004
%RSD	14.30	.2007	.0900	.4091	.3747	.3840	.2666	4.198
#1	.0054	2.045	1.973	2.018	1.892	2.052	-.2200	-.0090
#2	.0062	2.053	1.976	2.016	1.906	2.048	-.2212	-.0097
#3	.0072	2.052	1.976	2.003	1.902	2.037	-.2209	-.0098

Zoom In Zoom Out

Sample Name: mp9793-b3 Acquired: 10/25/2018 1:14:27 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0007**	**2.021**
Stddev	.0007	.004
%RSD	111.8	.1846
#1	-.0013	2.024
#2	.0002	2.017
#3	-.0008	2.023

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95997.**	**4361.1**	**4174.3**	**10385.**
Stddev	407.	14.2	7.8	15.
%RSD	.42414	.32673	.18569	.14469
#1	95834.	4350.4	4183.3	10402.
#2	95695.	4377.3	4169.1	10374.
#3	96460.	4355.7	4170.7	10379.

Zoom In Zoom Out

Sample Name: mp9793-s1 Acquired: 10/25/2018 1:19:32 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.015**	**1.998**	**1.990**	**2.001**	**1.930**	**2.019**	**2.112**	**1.990**	**.2468**
Stddev	.005	.004	.003	.003	.021	.027	.022	.002	.0030
%RSD	.2508	.1999	.1590	.1447	1.090	1.322	1.050	.0973	1.218
#1	2.010	1.993	1.991	2.000	1.935	2.041	2.120	1.988	.2488
#2	2.020	2.001	1.993	1.999	1.948	2.027	2.129	1.991	.2482
#3	2.016	2.000	1.987	2.005	1.907	1.989	2.087	1.991	.2433

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.968**	**2.006**	**2.054**	**1.931**	**2.002**	**2.037**	**2.069**	**25.70**	**77.31**
Stddev	.021	.004	.001	.003	.006	.006	.005	.05	.23
%RSD	1.084	.2170	.0655	.1505	.2937	.2865	.2598	.2018	.3032
#1	1.978	2.003	2.053	1.929	1.999	2.042	2.074	25.66	77.57
#2	1.983	2.003	2.053	1.934	1.999	2.039	2.068	25.75	77.10
#3	1.944	2.011	2.055	1.929	2.009	2.031	2.064	25.68	77.27

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.82**	**33.39**	**34.88**	**135.7**	**2.396**	**2.070**	**13.72**	**2.019**	**2.351**
Stddev	.01	.03	.03	.2	.005	.002	.03	.003	.005
%RSD	.0309	.0922	.0805	.1392	.2176	.1138	.1949	.1542	.2131
#1	25.81	33.39	34.89	135.5	2.396	2.072	13.74	2.016	2.345
#2	25.82	33.36	34.91	135.9	2.401	2.070	13.74	2.022	2.355
#3	25.83	33.42	34.85	135.8	2.391	2.067	13.69	2.020	2.352

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.003**	**1.951**	**2.044**	**25.73**	**-.0110**	**.0161**	**2.255**
Stddev	.021	.002	.024	.03	.0006	.0006	.005
%RSD	1.035	.0862	1.166	.1136	5.820	4.003	.2265
#1	2.012	1.953	2.059	25.75	-.0106	.0160	2.253
#2	2.018	1.950	2.057	25.74	-.0117	.0168	2.261
#3	1.979	1.951	2.016	25.70	-.0107	.0156	2.251

Zoom In Zoom Out

Sample Name: mp9793-s1 Acquired: 10/25/2018 1:19:32 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**93941.**	**4448.0**	**4047.0**	**9925.0**
Stddev	1033.	8.6	11.3	11.9
%RSD	1.1000	.19248	.27932	.11989
#1	93390.	4438.9	4040.0	9917.1
#2	93301.	4455.8	4041.1	9919.3
#3	95134.	4449.4	4060.1	9938.7

Zoom In Zoom Out

Sample Name: mp9793-s2 Acquired: 10/25/2018 1:24:37 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.999**	**2.029**	**1.984**	**2.002**	**1.914**	**2.015**	**2.101**	**1.987**	**.2439**
Stddev	.004	.008	.004	.002	.012	.012	.012	.001	.0015
%RSD	.2086	.4147	.1895	.0804	.6047	.6064	.5848	.0472	.6075
#1	1.995	2.023	1.984	2.003	1.923	2.022	2.111	1.988	.2452
#2	2.003	2.038	1.980	2.001	1.919	2.022	2.104	1.986	.2443
#3	1.998	2.025	1.987	2.004	1.901	2.001	2.087	1.986	.2423

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.956**	**2.012**	**2.043**	**1.914**	**2.007**	**2.044**	**2.052**	**25.73**	**76.77**
Stddev	.012	.003	.002	.008	.003	.006	.001	.10	.41
%RSD	.6189	.1522	.1021	.4184	.1284	.3075	.0460	.4005	.5286
#1	1.965	2.009	2.042	1.924	2.009	2.046	2.052	25.62	76.38
#2	1.960	2.012	2.041	1.909	2.006	2.036	2.053	25.83	77.19
#3	1.942	2.015	2.045	1.911	2.004	2.048	2.052	25.73	76.76

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.81**	**33.42**	**34.58**	**134.7**	**2.387**	**2.056**	**13.48**	**2.009**	**2.336**
Stddev	.14	.21	.11	.4	.001	.003	.01	.001	.005
%RSD	.5363	.6226	.3174	.3208	.0460	.1625	.1076	.0629	.2267
#1	25.70	33.26	34.50	134.3	2.388	2.054	13.48	2.009	2.332
#2	25.97	33.66	34.71	135.2	2.386	2.055	13.47	2.007	2.342
#3	25.76	33.35	34.54	134.6	2.388	2.060	13.50	2.010	2.334

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.979**	**1.956**	**2.026**	**25.36**	**-.0108**	**.0170**	**2.245**
Stddev	.011	.004	.012	.01	.0004	.0008	.009
%RSD	.5564	.2070	.5933	.0353	3.241	4.446	.4043
#1	1.986	1.957	2.032	25.35	-.0111	.0162	2.250
#2	1.985	1.951	2.033	25.36	-.0104	.0172	2.250
#3	1.966	1.959	2.012	25.37	-.0109	.0177	2.234

Zoom In Zoom Out

Sample Name: mp9793-s2 Acquired: 10/25/2018 1:24:37 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94347.**	**4370.2**	**4036.6**	**9912.0**
Stddev	422.	25.1	4.2	3.5
%RSD	.44743	.57425	.10490	.03503
#1	94069.	4386.5	4037.7	9908.6
#2	94139.	4341.3	4040.1	9915.6
#3	94833.	4382.8	4031.9	9911.8

Zoom In Zoom Out

Sample Name: jc76187-1 Acquired: 10/25/2018 1:29:41 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0404**	**-.0003**	**.0001**	**-.0007**	**.0016**	**.0094**	**.1124**	**.0018**	**-.0009**
Stddev	.0003	.0001	.0002	.0003	.0001	.0000	.0002	.0002	.0002
%RSD	.7934	37.41	141.4	42.93	4.697	.4990	.1691	11.64	27.37
#1	.0405	-.0002	.0000	-.0003	.0017	.0094	.1125	.0017	-.0011
#2	.0400	-.0003	.0000	-.0008	.0016	.0094	.1122	.0021	-.0009
#3	.0406	-.0002	.0003	-.0009	.0015	.0094	.1126	.0017	-.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0112**	**.0021**	**.0050**	**-.0003**	**.0017**	**-.0003**	**.0019**	**.0274**	**52.44**
Stddev	.0001	.0003	.0005	.0016	.0017	.0009	.0006	.0058	.16
%RSD	.9878	12.00	9.395	467.7	104.6	298.1	29.22	21.05	.3097
#1	.0112	.0023	.0048	.0006	.0031	.0003	.0020	.0317	52.30
#2	.0111	.0022	.0047	-.0021	.0022	-.0014	.0013	.0208	52.40
#3	.0113	.0018	.0056	.0005	-.0003	.0001	.0024	.0296	52.62

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.178**	**9.111**	**9.736**	**109.2**	**.3748**	**.0152**	**13.54**	**-.0009**	**.3695**
Stddev	.008	.125	.018	.2	.0010	.0004	.03	.0004	.0008
%RSD	.7084	1.372	.1852	.1838	.2749	2.930	.2348	50.06	.2134
#1	1.183	8.971	9.727	109.2	.3754	.0154	13.57	-.0008	.3697
#2	1.169	9.154	9.724	109.1	.3736	.0154	13.52	-.0004	.3687
#3	1.184	9.210	9.757	109.4	.3753	.0146	13.51	-.0013	.3702

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**.0159**	**.0031**	**25.56**	**-.0024**	**.0166**	**.2080**
Stddev	.0002	.0010	.0002	.06	.0007	.0007	.0009
%RSD	10.09	6.454	6.424	.2223	29.67	4.127	.4145
#1	.0021	.0171	.0033	25.63	-.0029	.0164	.2079
#2	.0023	.0154	.0031	25.52	-.0016	.0161	.2072
#3	.0025	.0153	.0029	25.54	-.0028	.0174	.2089

Zoom In Zoom Out

Sample Name: jc76187-1 Acquired: 10/25/2018 1:29:41 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95322.**	**4399.9**	**4073.9**	**10215.**
Stddev	192.	19.6	7.1	7.
%RSD	.20186	.44546	.17433	.06909
#1	95411.	4408.1	4066.8	10211.
#2	95454.	4414.1	4081.0	10223.
#3	95101.	4377.5	4074.0	10210.

Zoom In Zoom Out

Sample Name: mp9793-sd1 Acquired: 10/25/2018 1:35:07 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0405**	**-.0005**	**.0002**	**-.0009**	**.0010**	**.0069**	**.1158**	**.0003**	**-.0040**
Stddev	.0013	.0002	.0005	.0011	.0013	.0005	.0003	.0013	.0013
%RSD	3.236	38.86	237.1	113.3	121.3	7.609	.2439	410.8	32.04
#1	.0391	-.0007	.0008	.0003	.0017	.0068	.1160	.0001	-.0026
#2	.0406	-.0003	.0002	-.0018	-.0004	.0065	.1155	-.0009	-.0052
#3	.0418	-.0004	-.0003	-.0013	.0018	.0075	.1161	.0017	-.0041

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0119**	**.0014**	**.0080**	**-.0042**	**.0014**	**.0039**	**.0024**	**.0624**	**53.27**
Stddev	.0008	.0006	.0021	.0080	.0028	.0040	.0024	.0743	.16
%RSD	7.122	38.93	26.50	190.8	197.7	103.7	98.69	119.2	.3082
#1	.0128	.0008	.0087	-.0109	.0005	.0061	.0052	-.0108	53.13
#2	.0118	.0019	.0057	-.0064	.0046	-.0008	.0008	.1378	53.22
#3	.0111	.0015	.0097	.0047	-.0008	.0063	.0013	.0601	53.45

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.163**	**8.877**	**9.489**	**107.3**	**.3620**	**.0099**	**13.26**	**.0008**	**.3744**
Stddev	.030	.127	.024	.1	.0014	.0006	.02	.0042	.0015
%RSD	2.578	1.432	.2520	.1000	.3794	5.718	.1450	524.9	.4105
#1	1.130	8.810	9.510	107.2	.3630	.0094	13.23	-.0009	.3743
#2	1.189	9.023	9.494	107.4	.3604	.0105	13.26	.0056	.3730
#3	1.169	8.797	9.463	107.3	.3625	.0097	13.27	-.0023	.3760

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0049**	**.0227**	**.0026**	**25.49**	**-.0050**	**.0137**	**.2137**
Stddev	.0003	.0044	.0003	.10	.0041	.0013	.0034
%RSD	6.133	19.36	10.95	.3788	82.74	9.285	1.603
#1	.0052	.0182	.0023	25.45	-.0086	.0128	.2176
#2	.0050	.0229	.0025	25.60	-.0059	.0151	.2121
#3	.0046	.0270	.0029	25.43	-.0005	.0131	.2114

Zoom In Zoom Out

Sample Name: mp9793-sd1 Acquired: 10/25/2018 1:35:07 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98054.**	**4532.7**	**4242.8**	**10771.**
Stddev	114.	10.9	6.2	8.
%RSD	.11666	.24051	.14621	.07685
#1	98048.	4545.3	4249.9	10779.
#2	98172.	4526.4	4238.4	10763.
#3	97943.	4526.5	4240.1	10773.

Zoom In Zoom Out

Sample Name: mp9793-s3 Acquired: 10/25/2018 1:40:34 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.032**	**2.049**	**2.015**	**2.034**	**1.943**	**2.039**	**2.098**	**2.017**	**.2467**
Stddev	.011	.007	.004	.006	.020	.020	.021	.007	.0024
%RSD	.5217	.3211	.2176	.2784	1.024	.9683	.9764	.3616	.9605
#1	2.044	2.056	2.010	2.031	1.944	2.032	2.099	2.014	.2465
#2	2.028	2.048	2.016	2.030	1.922	2.024	2.077	2.012	.2445
#3	2.024	2.044	2.019	2.040	1.962	2.062	2.118	2.025	.2492

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.985**	**2.029**	**2.066**	**1.951**	**2.031**	**2.066**	**2.083**	**26.09**	**76.43**
Stddev	.020	.006	.006	.010	.005	.007	.004	.04	.20
%RSD	.9999	.2896	.2987	.5048	.2431	.3416	.2181	.1517	.2588
#1	1.985	2.025	2.061	1.947	2.030	2.059	2.082	26.13	76.48
#2	1.965	2.026	2.063	1.945	2.026	2.067	2.079	26.09	76.59
#3	2.005	2.036	2.073	1.963	2.036	2.073	2.088	26.05	76.21

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**33.57**	**35.02**	**135.0**	**2.416**	**2.082**	**13.09**	**2.032**	**2.368**
Stddev	.08	.03	.10	.6	.010	.007	.03	.006	.010
%RSD	.3381	.1032	.2815	.4434	.4298	.3368	.2656	.2913	.4344
#1	25.09	33.60	35.12	135.7	2.405	2.076	13.06	2.030	2.379
#2	25.04	33.58	35.02	134.9	2.417	2.082	13.09	2.028	2.363
#3	24.93	33.53	34.92	134.5	2.426	2.090	13.13	2.039	2.360

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.003**	**1.968**	**2.050**	**25.24**	**-.0109**	**.0165**	**2.156**
Stddev	.018	.006	.020	.06	.0005	.0004	.012
%RSD	.9172	.2929	.9540	.2491	4.511	2.611	.5413
#1	2.002	1.965	2.049	25.17	-.0114	.0160	2.143
#2	1.986	1.964	2.032	25.23	-.0109	.0165	2.166
#3	2.022	1.975	2.071	25.30	-.0104	.0169	2.158

Zoom In Zoom Out

Sample Name: mp9793-s3 Acquired: 10/25/2018 1:40:34 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94667.**	**4400.0**	**4057.1**	**9958.8**
Stddev	971.	10.8	7.3	19.6
%RSD	1.0252	.24507	.17920	.19720
#1	94787.	4397.7	4064.4	9967.6
#2	95573.	4390.6	4057.0	9972.5
#3	93643.	4411.8	4049.8	9936.3

Zoom In Zoom Out

Sample Name: mp9793-s4 Acquired: 10/25/2018 1:45:38 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.991**	**1.998**	**1.971**	**1.983**	**1.906**	**1.984**	**2.053**	**1.969**	**.2444**
Stddev	.001	.003	.007	.005	.012	.012	.011	.007	.0014
%RSD	.0628	.1275	.3570	.2779	.6307	.6119	.5365	.3399	.5547
#1	1.991	2.001	1.977	1.989	1.920	1.998	2.065	1.977	.2458
#2	1.993	1.998	1.971	1.980	1.901	1.977	2.050	1.968	.2443
#3	1.990	1.996	1.963	1.980	1.897	1.977	2.043	1.964	.2431

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.940**	**1.984**	**2.028**	**1.911**	**1.986**	**2.017**	**2.046**	**25.67**	**76.88**
Stddev	.013	.004	.008	.009	.007	.009	.009	.05	.07
%RSD	.6448	.1825	.4093	.4857	.3340	.4715	.4160	.1988	.0906
#1	1.954	1.988	2.037	1.922	1.994	2.021	2.054	25.72	76.82
#2	1.936	1.981	2.029	1.905	1.983	2.024	2.048	25.66	76.86
#3	1.930	1.982	2.020	1.906	1.981	2.006	2.037	25.62	76.95

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.55**	**33.48**	**34.77**	**135.6**	**2.379**	**2.047**	**13.27**	**1.993**	**2.331**
Stddev	.01	.03	.03	.4	.010	.006	.04	.005	.003
%RSD	.0266	.0970	.0987	.2639	.4092	.3159	.3216	.2701	.1162
#1	24.56	33.52	34.77	135.9	2.385	2.052	13.31	1.997	2.330
#2	24.56	33.45	34.80	135.6	2.384	2.048	13.28	1.996	2.334
#3	24.55	33.48	34.73	135.2	2.368	2.040	13.23	1.987	2.329

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.971**	**1.934**	**2.007**	**25.60**	**-.0096**	**.0161**	**2.118**
Stddev	.013	.009	.011	.08	.0008	.0006	.012
%RSD	.6823	.4404	.5221	.2967	8.684	3.645	.5860
#1	1.986	1.943	2.018	25.67	-.0087	.0164	2.132
#2	1.965	1.932	2.004	25.61	-.0102	.0165	2.107
#3	1.961	1.926	1.998	25.52	-.0100	.0154	2.116

Zoom In Zoom Out

Sample Name: mp9793-s4 Acquired: 10/25/2018 1:45:38 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94770.**	**4407.4**	**4055.8**	**9951.9**
Stddev	572.	5.3	16.5	35.0
%RSD	.60329	.12126	.40620	.35167
#1	94120.	4402.5	4044.0	9921.3
#2	94996.	4413.1	4048.8	9944.2
#3	95194.	4406.4	4074.6	9990.1

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 1:50:43 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.004**	**2.020**	**1.989**	**2.015**	**1.965**	**1.989**	**2.032**	**2.006**	**.2389**
Stddev	.004	.004	.002	.002	.058	.058	.059	.001	.0067
%RSD	.2208	.2111	.0847	.0981	2.967	2.927	2.917	.0647	2.807
#1	2.008	2.023	1.990	2.015	1.992	2.019	2.060	2.005	.2420
#2	2.003	2.021	1.990	2.013	2.005	2.026	2.072	2.005	.2436
#3	2.000	2.015	1.987	2.017	1.898	1.922	1.964	2.008	.2312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.978**	**2.060**	**2.019**	**1.955**	**2.031**	**2.040**	**2.030**	**40.04**	**39.16**
Stddev	.057	.006	.003	.002	.001	.005	.005	.08	.05
%RSD	2.854	.3085	.1605	.1054	.0662	.2598	.2326	.1919	.1218
#1	2.006	2.062	2.021	1.957	2.032	2.046	2.031	40.12	39.21
#2	2.015	2.053	2.020	1.953	2.029	2.036	2.034	40.03	39.17
#3	1.913	2.065	2.015	1.954	2.031	2.037	2.025	39.96	39.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.51**	**38.65**	**38.44**	**39.68**	**2.039**	**2.048**	**5.199**	**2.030**	**2.006**
Stddev	.14	.10	.08	.10	.005	.002	.011	.003	.006
%RSD	.3561	.2691	.2062	.2425	.2700	.0891	.2103	.1690	.2863
#1	38.62	38.76	38.52	39.78	2.042	2.049	5.209	2.033	2.012
#2	38.54	38.64	38.44	39.66	2.042	2.048	5.202	2.030	2.006
#3	38.36	38.55	38.36	39.59	2.032	2.046	5.188	2.027	2.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 1:50:43 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.984**	**1.983**	**2.031**	**1.969**	**2.021**	**2.011**	**2.025**
Stddev	.058	.001	.061	.003	.005	.005	.003
%RSD	2.931	.0667	3.021	.1740	.2709	.2342	.1466
#1	2.013	1.982	2.064	1.969	2.025	2.017	2.028
#2	2.021	1.982	2.069	1.965	2.024	2.009	2.025
#3	1.917	1.984	1.961	1.972	2.015	2.008	2.022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97552.**	**4512.3**	**4210.6**	**10404.**
Stddev	2691.	2.2	3.2	5.
%RSD	2.7585	.04786	.07694	.04765
#1	96272.	4514.6	4209.9	10410.
#2	95740.	4510.3	4207.8	10403.
#3	100640.	4512.0	4214.2	10401.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 1:55:49 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**.0001**	**.0001**	**.0001**	**-.0008**	**-.0000**	**-.0000**	**-.0008**
Stddev	.0002	.0001	.0000	.0002	.0003	.0001	.0000	.0001	.0001
%RSD	166.4	426.9	41.92	212.3	316.5	12.29	197.5	190.3	8.126
#1	.0002	.0001	.0001	-.0001	.0004	-.0009	-.0001	.0000	-.0008
#2	.0004	.0000	.0002	.0002	-.0001	-.0007	-.0000	-.0001	-.0009
#3	-.0001	-.0001	.0001	.0002	-.0001	-.0009	.0000	-.0001	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0005**	**.0007**	**-.0007**	**.0005**	**-.0008**	**.0003**	**.0099**	**-.0111**
Stddev	.0001	.0001	.0008	.0013	.0003	.0004	.0009	.0069	.0063
%RSD	80.51	16.79	120.3	191.5	60.98	54.28	366.9	70.03	56.38
#1	.0001	-.0005	.0003	-.0022	.0002	-.0012	-.0006	.0035	-.0047
#2	.0001	-.0006	.0001	-.0002	.0007	-.0008	.0012	.0089	-.0172
#3	.0000	-.0005	.0016	.0003	.0007	-.0003	.0002	.0173	-.0115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**.0308**	**-.0036**	**.0390**	**.0003**	**.0012**	**-.0016**	**-.0001**	**-.0001**
Stddev	.0012	.0065	.0145	.0043	.0002	.0005	.0004	.0002	.0000
%RSD	78.33	21.14	403.2	11.12	82.14	40.04	22.27	121.4	25.88
#1	.0003	.0279	.0127	.0439	.0003	.0018	-.0013	.0000	-.0001
#2	.0027	.0263	-.0151	.0356	.0004	.0012	-.0020	-.0001	-.0001
#3	.0018	.0383	-.0084	.0375	.0000	.0008	-.0016	-.0003	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 1:55:49 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0030**	**.0002**	**.0017**	**-.0005**	**-.0003**	**.0027**
Stddev	.0001	.0011	.0001	.0016	.0002	.0003	.0006
%RSD	113.3	36.39	37.88	94.05	40.89	100.3	22.80
#1	.0001	.0043	.0003	.0035	-.0007	-.0004	.0021
#2	.0000	.0026	.0001	.0004	-.0003	.0000	.0033
#3	.0002	.0022	.0002	.0013	-.0004	-.0006	.0029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99680.**	**4543.8**	**4332.7**	**11065.**
Stddev	90.	4.1	7.1	18.
%RSD	.09016	.08924	.16289	.15878
#1	99629.	4546.5	4340.3	11079.
#2	99628.	4545.9	4326.3	11045.
#3	99784.	4539.2	4331.7	11070.

Zoom In Zoom Out

Sample Name: jc76187-1f Acquired: 10/25/2018 2:01:23 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0339**	**-.0003**	**.0002**	**-.0004**	**.0013**	**.0078**	**.0789**	**.0017**	**-.0011**
Stddev	.0003	.0000	.0001	.0001	.0002	.0003	.0004	.0002	.0002
%RSD	.8699	9.462	38.73	36.64	13.45	3.540	.5196	10.29	19.48
#1	.0337	-.0003	.0001	-.0003	.0014	.0079	.0789	.0019	-.0010
#2	.0342	-.0003	.0003	-.0005	.0013	.0080	.0794	.0016	-.0013
#3	.0337	-.0003	.0002	-.0003	.0011	.0074	.0785	.0017	-.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0095**	**-.0020**	**.0038**	**-.0014**	**-.0017**	**.0004**	**.0019**	**.0068**	**50.55**
Stddev	.0001	.0001	.0012	.0011	.0007	.0015	.0009	.0055	.17
%RSD	1.478	7.407	32.34	78.88	39.68	410.3	44.45	80.86	.3393
#1	.0094	-.0019	.0030	-.0002	-.0020	.0018	.0010	.0119	50.37
#2	.0097	-.0022	.0031	-.0019	-.0009	-.0012	.0022	.0010	50.56
#3	.0094	-.0020	.0052	-.0023	-.0022	.0005	.0026	.0074	50.71

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0571**	**8.844**	**9.509**	**106.9**	**.3640**	**.0132**	**12.93**	**-.0003**	**.3577**
Stddev	.0041	.063	.036	.1	.0007	.0003	.02	.0011	.0005
%RSD	7.262	.7091	.3754	.0947	.1883	2.061	.1296	404.7	.1291
#1	.0618	8.775	9.472	107.0	.3648	.0134	12.95	-.0010	.3582
#2	.0539	8.860	9.511	107.0	.3638	.0133	12.92	-.0008	.3574
#3	.0555	8.897	9.543	106.8	.3634	.0129	12.92	.0010	.3575

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0107**	**.0015**	**24.83**	**-.0023**	**.0165**	**.0965**
Stddev	.0001	.0004	.0000	.03	.0002	.0005	.0001
%RSD	7.191	3.723	3.234	.1342	9.723	2.820	.1426
#1	.0014	.0112	.0014	24.84	-.0020	.0165	.0967
#2	.0013	.0106	.0014	24.85	-.0025	.0161	.0964
#3	.0012	.0105	.0015	24.79	-.0023	.0170	.0965

Zoom In Zoom Out

Sample Name: jc76187-1f Acquired: 10/25/2018 2:01:23 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95782.**	**4496.0**	**4121.1**	**10365.**
Stddev	509.	22.9	5.5	8.
%RSD	.53193	.51038	.13283	.07775
#1	95655.	4521.6	4115.1	10356.
#2	95349.	4489.0	4125.9	10371.
#3	96344.	4477.3	4122.3	10370.

Zoom In Zoom Out

Sample Name: mp9793-sd2 Acquired: 10/25/2018 2:06:48 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0344**	**-.0005**	**.0011**	**-.0017**	**.0012**	**.0023**	**.0810**	**.0004**	**-.0055**
Stddev	.0008	.0005	.0008	.0010	.0005	.0003	.0003	.0013	.0012
%RSD	2.462	116.6	74.63	54.55	42.64	11.97	.3954	289.1	21.57
#1	.0351	-.0007	.0016	-.0028	.0006	.0020	.0812	.0017	-.0066
#2	.0347	-.0008	.0002	-.0009	.0015	.0026	.0811	.0005	-.0042
#3	.0334	.0002	.0015	-.0015	.0013	.0024	.0806	-.0009	-.0058

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0099**	**-.0051**	**.0076**	**-.0039**	**-.0022**	**.0003**	**.0034**	**.0440**	**51.78**
Stddev	.0007	.0000	.0025	.0025	.0008	.0067	.0058	.0580	.08
%RSD	6.628	.5293	32.93	63.02	37.33	2034.	169.2	131.6	.1520
#1	.0106	-.0051	.0047	-.0011	-.0013	-.0004	.0100	.0171	51.87
#2	.0099	-.0051	.0089	-.0047	-.0026	.0074	-.0003	.1106	51.73
#3	.0092	-.0051	.0091	-.0059	-.0028	-.0059	.0005	.0044	51.74

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0610**	**8.920**	**9.278**	**106.1**	**.3512**	**.0085**	**12.72**	**.0004**	**.3596**
Stddev	.0140	.094	.061	.1	.0010	.0008	.01	.0008	.0004
%RSD	22.95	1.056	.6612	.1206	.2879	9.482	.0905	214.7	.1084
#1	.0513	9.029	9.274	105.9	.3503	.0093	12.74	.0008	.3598
#2	.0771	8.870	9.219	106.2	.3523	.0085	12.72	-.0005	.3598
#3	.0547	8.862	9.342	106.0	.3509	.0077	12.72	.0008	.3591

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043**	**.0154**	**.0015**	**25.03**	**-.0035**	**.0142**	**.1123**
Stddev	.0012	.0022	.0002	.08	.0038	.0030	.0037
%RSD	27.85	14.04	10.86	.3326	108.3	21.34	3.297
#1	.0048	.0146	.0017	25.03	-.0068	.0125	.1086
#2	.0052	.0179	.0014	25.12	.0006	.0124	.1160
#3	.0030	.0138	.0014	24.96	-.0041	.0177	.1122

Zoom In Zoom Out

Sample Name: mp9793-sd2 Acquired: 10/25/2018 2:06:48 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99226.**	**4574.5**	**4260.7**	**10881.**
Stddev	131.	3.5	3.8	6.
%RSD	.13168	.07719	.08882	.05638
#1	99163.	4572.4	4264.3	10886.
#2	99139.	4572.5	4261.1	10883.
#3	99376.	4578.6	4256.7	10874.

Zoom In Zoom Out

Sample Name: jc76178-1 Acquired: 10/25/2018 2:12:15 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**.0003**	**-.0009**	**-.0009**	**.0008**	**.0039**	**.0042**	**-.0016**
Stddev	.0001	.0000	.0001	.0009	.0003	.0003	.0001	.0003
%RSD	5.719	13.49	6.787	93.76	30.51	8.405	1.226	20.66
#1	.0022	.0003	-.0008	.0000	.0007	.0036	.0042	-.0016
#2	.0024	.0003	-.0009	-.0012	.0011	.0042	.0043	-.0019
#3	.0024	.0002	-.0009	-.0016	.0007	.0040	.0043	-.0012

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0062**	**.0026**	**.0005**	**-.0009**	F **-.0221**	**.0050**	**.0026**	**.0025**
Stddev	.0001	.0002	.0004	.0009	.0024	.0012	.0030	.0016
%RSD	2.115	6.153	76.89	99.40	10.68	24.52	115.0	66.03
#1	-.0060	.0024	.0003	-.0019	-.0225	.0064	.0039	.0036
#2	-.0063	.0026	.0002	-.0006	-.0242	.0045	-.0008	.0031
#3	-.0063	.0028	.0009	-.0002	-.0195	.0040	.0047	.0006

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **552.2**	**1.594**	**.1598**	**.2437**	**.1857**	**2.278**	**.0213**	**-.0033**
Stddev	.1	.011	.0015	.0142	.0348	.006	.0003	.0003
%RSD	.0212	.6863	.9405	5.838	18.72	.2655	1.609	9.211
#1	552.3	1.589	.1581	.2457	.1770	2.273	.0209	-.0034
#2	552.2	1.587	.1606	.2286	.1561	2.277	.0212	-.0036
#3	552.1	1.607	.1608	.2568	.2240	2.285	.0216	-.0030

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1847**	**.0156**	**.0065**	F **23.69**	**.0118**	**.0146**	**6.906**	F **-.0678**
Stddev	.0010	.0002	.0000	.21	.0021	.0003	.017	.0011
%RSD	.5623	1.359	.5858	.9025	17.87	2.181	.2393	1.672
#1	.1851	.0154	.0064	23.46	.0114	.0143	6.925	-.0673
#2	.1835	.0156	.0065	23.72	.0100	.0147	6.896	-.0670
#3	.1855	.0159	.0065	23.88	.0141	.0149	6.897	-.0691

Zoom In Zoom Out

Sample Name: jc76178-1 Acquired: 10/25/2018 2:12:15 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0031**	**.0178**
Stddev	.0005	.0017
%RSD	17.70	9.736
#1	.0037	.0189
#2	.0028	.0158
#3	.0027	.0188

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95687.**	**4328.5**	**4175.1**	**10134.**
Stddev	668.	6.5	12.5	22.
%RSD	.69820	.14927	.30057	.21635
#1	96443.	4329.0	4161.0	10110.
#2	95444.	4321.8	4179.7	10139.
#3	95175.	4334.7	4184.8	10152.

Zoom In Zoom Out

Sample Name: mp9787-b1conf Acquired: 10/25/2018 2:17:44 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.921**	**1.987**	**1.991**	**2.031**	**1.953**	**1.947**	**2.049**	**2.039**	**.2392**
Stddev	.007	.004	.004	.003	.005	.010	.003	.003	.0012
%RSD	.3478	.2014	.1875	.1355	.2374	.5077	.1516	.1501	.5086
#1	1.916	1.983	1.992	2.033	1.952	1.958	2.053	2.038	.2395
#2	1.929	1.991	1.995	2.033	1.949	1.940	2.047	2.036	.2379
#3	1.918	1.986	1.987	2.028	1.958	1.943	2.048	2.042	.2403

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.956**	**2.130**	**2.054**	**1.894**	**2.064**	**2.106**	**2.061**	**25.38**	**25.04**
Stddev	.006	.003	.006	.005	.006	.005	.005	.06	.04
%RSD	.2894	.1537	.2833	.2614	.2752	.2451	.2470	.2403	.1625
#1	1.960	2.131	2.061	1.889	2.071	2.112	2.067	25.33	25.05
#2	1.950	2.133	2.051	1.895	2.062	2.102	2.059	25.35	25.00
#3	1.958	2.127	2.050	1.899	2.060	2.103	2.058	25.45	25.08

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.68**	**24.39**	**24.74**	F **1381.**	**2.017**	**2.089**	**-.0132**	**2.061**	**1.933**
Stddev	.03	.11	.15	7.	.007	.007	.0026	.005	.001
%RSD	.1127	.4572	.5988	.4922	.3311	.3399	19.85	.2633	.0389
#1	24.68	24.30	24.61	1386.	2.021	2.093	-.0102	2.064	1.933
#2	24.66	24.52	24.90	1373.	2.009	2.081	-.0144	2.055	1.933
#3	24.71	24.36	24.72	1383.	2.020	2.094	-.0150	2.065	1.934

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.985**	**1.940**	**1.966**	**-.1803**	**-.0143**	**.0004**	**2.082**
Stddev	.003	.011	.005	.0068	.0032	.0059	.016
%RSD	.1449	.5599	.2611	3.746	22.44	1465.	.7578
#1	1.986	1.943	1.968	-.1870	-.0107	.0045	2.098
#2	1.982	1.928	1.961	-.1735	-.0156	.0031	2.067
#3	1.987	1.949	1.970	-.1803	-.0167	-.0064	2.080

Zoom In Zoom Out

Sample Name: mp9787-b1conf Acquired: 10/25/2018 2:17:44 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95283.**	**4479.9**	**4156.8**	**10123.**
Stddev	188.	11.3	5.0	13.
%RSD	.19720	.25152	.11927	.12751
#1	95109.	4487.3	4162.2	10138.
#2	95482.	4485.4	4152.4	10117.
#3	95257.	4466.9	4155.8	10114.

Zoom In Zoom Out

Sample Name: mp9787-mb1conf Acquired: 10/25/2018 2:23:02 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: tclp

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**.0000**	**.0001**	**-.0002**	**.0012**	**.0047**	**.0012**	**.0110**
Stddev	.0003	.0003	.0010	.0003	.0006	.0006	.0002	.0014
%RSD	13.63	17170.	823.3	174.1	51.10	12.59	17.96	12.75
#1	.0026	.0001	-.0005	-.0003	.0010	.0052	.0009	.0121
#2	.0026	-.0004	.0012	-.0004	.0019	.0047	.0013	.0094
#3	.0020	.0002	-.0003	.0002	.0007	.0041	.0013	.0116

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0069**	**.0005**	**.0026**	**.0092**	F **-.0139**	**-.0014**	**.0063**	**-.0009**
Stddev	.0002	.0010	.0004	.0049	.0067	.0030	.0024	.0031
%RSD	2.478	224.0	15.87	53.59	47.98	213.1	38.47	355.6
#1	-.0067	.0004	.0028	.0038	-.0176	.0010	.0092	-.0032
#2	-.0069	.0015	.0029	.0134	-.0062	-.0048	.0048	.0027
#3	-.0070	-.0005	.0021	.0106	-.0179	-.0005	.0051	-.0021

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0678**	**.4393**	**.0218**	**.0425**	**.3663**	F **1372.**	**.0229**	**-.0058**
Stddev	.0324	.0113	.0313	.0908	.1743	15.	.0020	.0004
%RSD	47.80	2.567	143.2	213.7	47.58	1.063	8.535	7.334
#1	.1047	.4518	-.0139	-.0133	.1676	1367.	.0229	-.0062
#2	.0440	.4362	.0355	-.0065	.4379	1361.	.0209	-.0059
#3	.0546	.4299	.0439	.1472	.4934	1388.	.0248	-.0054

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0542**	**-.0003**	**.0010**	**.0014**	**.0065**	**.0049**	**.1219**	**-.0029**
Stddev	.0048	.0031	.0002	.0010	.0007	.0003	.0080	.0022
%RSD	8.788	1171.	22.59	68.31	9.968	5.844	6.559	77.15
#1	.0597	.0006	.0009	.0005	.0068	.0049	.1307	-.0013
#2	.0516	.0023	.0012	.0013	.0058	.0046	.1151	-.0054
#3	.0514	-.0037	.0008	.0024	.0070	.0051	.1198	-.0019

Zoom In Zoom Out

Sample Name: mp9787-mb1conf Acquired: 10/25/2018 2:23:02 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: tclp

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0043**	**.0266**
Stddev	.0015	.0033
%RSD	35.72	12.47
#1	.0026	.0303
#2	.0056	.0255
#3	.0047	.0239

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94655.**	**4459.4**	**4143.2**	**10140.**
Stddev	131.	17.1	4.8	10.
%RSD	.13865	.38349	.11509	.09527
#1	94675.	4472.9	4142.8	10145.
#2	94515.	4465.1	4138.6	10129.
#3	94775.	4440.2	4148.2	10146.

Zoom In Zoom Out

Sample Name: jc75718-5a Acquired: 10/25/2018 2:28:43 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3847**	**.0001**	**.0008**	**.0126**	**.0004**	**.0065**	**14.10**	**.0123**
Stddev	.0008	.0001	.0005	.0002	.0005	.0006	.03	.0003
%RSD	.2074	169.8	62.52	1.237	127.5	9.290	.2438	2.318
#1	.3842	.0001	.0008	.0127	.0009	.0059	14.08	.0124
#2	.3856	.0002	.0014	.0125	-.0001	.0071	14.14	.0120
#3	.3842	-.0001	.0003	.0127	.0003	.0065	14.09	.0125

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0073**	**.0034**	**.0112**	**.0076**	F **-.0169**	**.0036**	**-.0011**	**-.0004**
Stddev	.0003	.0008	.0004	.0013	.0054	.0018	.0103	.0006
%RSD	3.508	24.87	3.257	16.70	32.17	49.33	947.5	141.8
#1	-.0071	.0026	.0112	.0062	-.0146	.0044	.0068	-.0009
#2	-.0073	.0033	.0108	.0081	-.0130	.0016	.0027	-.0006
#3	-.0076	.0043	.0116	.0086	-.0231	.0049	-.0128	.0003

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3202**	**25.55**	**3.049**	**4.142**	**6.135**	F **1337.**	**.0031**	**-.0084**
Stddev	.0503	.07	.033	.171	.018	7.	.0012	.0002
%RSD	15.72	.2937	1.091	4.138	.2861	.5365	39.55	2.515
#1	.3774	25.61	3.057	4.086	6.153	1342.	.0038	-.0082
#2	.3008	25.47	3.012	4.335	6.118	1340.	.0037	-.0085
#3	.2824	25.58	3.077	4.006	6.133	1329.	.0017	-.0086

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.766**	**.0013**	**.0992**	**.0021**	**-.0042**	**.0018**	**.1925**	**-.0029**
Stddev	.007	.0022	.0003	.0009	.0008	.0006	.0031	.0042
%RSD	.4123	169.9	.3461	43.74	19.08	31.40	1.604	143.9
#1	1.764	.0033	.0994	.0031	-.0046	.0022	.1909	.0015
#2	1.760	.0017	.0988	.0014	-.0033	.0012	.1960	-.0035
#3	1.774	-.0011	.0993	.0018	-.0048	.0021	.1905	-.0068

Zoom In Zoom Out

Sample Name: jc75718-5a Acquired: 10/25/2018 2:28:43 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0022**	**.0745**
Stddev	.0016	.0053
%RSD	72.18	7.106
#1	.0008	.0691
#2	.0040	.0797
#3	.0019	.0747

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94881.**	**4505.2**	**4121.6**	**10089.**
Stddev	407.	8.7	7.8	3.
%RSD	.42886	.19296	.19019	.03437
#1	95350.	4503.5	4126.4	10092.
#2	94627.	4497.4	4125.9	10090.
#3	94666.	4514.6	4112.6	10085.

Zoom In Zoom Out

Sample Name: jc75718-6a Acquired: 10/25/2018 2:34:29 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0983**	**.0000**	**.0003**	**-.0007**	**.0013**	**.0009**	**.0743**	**.0058**
Stddev	.0006	.0002	.0003	.0007	.0005	.0016	.0008	.0009
%RSD	.6381	389.5	103.8	91.96	35.51	183.1	1.020	16.27
#1	.0987	.0002	.0004	.0000	.0009	-.0009	.0735	.0066
#2	.0987	-.0000	-.0000	-.0011	.0018	.0022	.0748	.0048
#3	.0976	-.0001	.0006	-.0012	.0013	.0014	.0748	.0059

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0075**	**.0008**	**.0237**	**.0070**	F **-.0215**	**.0283**	**.0010**	**.0006**
Stddev	.0012	.0005	.0006	.0049	.0053	.0062	.0035	.0019
%RSD	15.45	65.20	2.532	69.79	24.86	21.75	348.5	331.4
#1	-.0066	.0002	.0244	.0105	-.0236	.0213	-.0012	.0026
#2	-.0088	.0012	.0232	.0014	-.0255	.0328	-.0008	-.0010
#3	-.0071	.0009	.0237	.0092	-.0154	.0309	.0050	.0001

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4048**	**37.41**	**.0311**	**3.403**	**2.552**	F **1296.**	**.0422**	**-.0096**
Stddev	.0499	.18	.0100	.139	.068	16.	.0017	.0007
%RSD	12.32	.4774	32.22	4.092	2.662	1.259	4.000	7.033
#1	.3473	37.38	.0203	3.448	2.485	1310.	.0441	-.0088
#2	.4349	37.59	.0402	3.513	2.620	1300.	.0408	-.0099
#3	.4323	37.24	.0329	3.246	2.551	1278.	.0417	-.0100

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.609**	**.0033**	**.2459**	**.0025**	**.0020**	**.0028**	**.1761**	**-.0068**
Stddev	.002	.0040	.0016	.0004	.0023	.0006	.0124	.0013
%RSD	.1111	121.7	.6705	17.79	112.3	21.65	7.020	19.35
#1	1.610	-.0011	.2446	.0025	.0047	.0031	.1816	-.0076
#2	1.610	.0066	.2477	.0020	.0005	.0021	.1847	-.0053
#3	1.607	.0043	.2453	.0029	.0010	.0033	.1619	-.0076

Zoom In Zoom Out

Sample Name: jc75718-6a Acquired: 10/25/2018 2:34:29 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0039**	**.0320**
Stddev	.0019	.0032
%RSD	49.97	10.09
#1	.0042	.0283
#2	.0057	.0333
#3	.0018	.0343

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94753.**	**4437.6**	**4116.6**	**10109.**
Stddev	765.	16.8	7.6	15.
%RSD	.80686	.37951	.18344	.14844
#1	95612.	4442.3	4112.6	10099.
#2	94148.	4418.9	4111.9	10102.
#3	94498.	4451.6	4125.3	10126.

Zoom In Zoom Out

Sample Name: jc75718-7a Acquired: 10/25/2018 2:40:05 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1275**	**-.0004**	**.0012**	**-.0012**	**.0013**	**.0003**	**.0766**	**.0049**
Stddev	.0006	.0002	.0002	.0005	.0010	.0003	.0001	.0020
%RSD	.4983	48.53	14.33	39.76	78.63	81.14	.1220	40.07
#1	.1277	-.0005	.0013	-.0014	.0021	.0004	.0767	.0056
#2	.1268	-.0002	.0010	-.0007	.0002	.0006	.0766	.0027
#3	.1281	-.0005	.0014	-.0016	.0015	.0000	.0765	.0064

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0060**	**.0012**	**.0764**	**.0060**	F **-.0155**	**.0162**	**-.0022**	**.0038**
Stddev	.0013	.0006	.0011	.0039	.0131	.0019	.0110	.0042
%RSD	21.39	47.65	1.438	65.14	84.91	11.90	487.3	110.1
#1	-.0046	.0015	.0751	.0083	-.0218	.0178	.0104	-.0008
#2	-.0072	.0015	.0768	.0081	-.0004	.0141	-.0085	.0074
#3	-.0062	.0005	.0772	.0015	-.0243	.0167	-.0086	.0047

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2767**	**19.07**	**.0350**	**2.866**	**10.62**	F **1022.**	**.0046**	**-.0100**
Stddev	.0272	.11	.0125	.256	.10	4.	.0030	.0009
%RSD	9.836	.5639	35.62	8.944	.9421	.3827	64.98	8.802
#1	.2967	18.96	.0269	2.866	10.52	1026.	.0018	-.0109
#2	.2457	19.07	.0493	3.122	10.63	1019.	.0041	-.0101
#3	.2876	19.17	.0287	2.610	10.72	1020.	.0078	-.0091

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9430**	**.0025**	**.1029**	**.0017**	**-.0055**	**.0023**	**.1780**	**-.0029**
Stddev	.0057	.0043	.0007	.0011	.0035	.0006	.0080	.0022
%RSD	.6035	175.9	.7264	65.91	63.83	26.48	4.482	76.81
#1	.9376	.0027	.1028	.0004	-.0068	.0030	.1708	-.0050
#2	.9423	.0066	.1022	.0022	-.0082	.0022	.1766	-.0032
#3	.9490	-.0020	.1037	.0026	-.0015	.0018	.1866	-.0005

Zoom In Zoom Out

Sample Name: jc75718-7a Acquired: 10/25/2018 2:40:05 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0018**	**.1805**
Stddev	.0014	.0017
%RSD	79.47	.9335
#1	.0015	.1818
#2	.0034	.1812
#3	.0006	.1786

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95251.**	**4493.2**	**4137.0**	**10198.**
Stddev	49.	9.0	10.4	11.
%RSD	.05183	.20130	.25144	.10558
#1	95306.	4495.9	4125.0	10186.
#2	95211.	4500.6	4142.5	10200.
#3	95237.	4483.1	4143.4	10207.

Zoom In Zoom Out

Sample Name: jc75718-8a Acquired: 10/25/2018 2:45:42 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1161**	**-.0002**	**.0019**	**.0010**	**.0012**	**.0730**	**.2673**	**.0064**
Stddev	.0011	.0004	.0007	.0011	.0014	.0009	.0006	.0007
%RSD	.9858	172.0	38.37	113.5	116.4	1.167	.2292	10.26
#1	.1170	-.0005	.0020	.0011	-.0003	.0740	.2679	.0063
#2	.1166	-.0003	.0026	-.0002	.0014	.0725	.2667	.0057
#3	.1148	.0002	.0011	.0021	.0024	.0725	.2674	.0070

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0082**	**.0030**	**.3369**	**.0181**	F **-.0156**	**.0092**	**.0005**	**.0005**
Stddev	.0013	.0004	.0020	.0033	.0070	.0044	.0057	.0083
%RSD	15.65	12.25	.6047	17.98	44.52	48.07	1037.	1686.
#1	-.0089	.0026	.3357	.0218	-.0222	.0083	.0071	-.0044
#2	-.0089	.0032	.3393	.0155	-.0084	.0052	-.0034	-.0043
#3	-.0067	.0033	.3358	.0171	-.0163	.0139	-.0021	.0101

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5393**	**18.72**	**.1134**	**1.374**	**2.636**	F **1078.**	**.0034**	**-.0094**
Stddev	.0087	.11	.0237	.104	.139	18.	.0036	.0008
%RSD	1.616	.5681	20.86	7.581	5.277	1.667	105.3	8.961
#1	.5393	18.80	.0861	1.326	2.781	1094.	.0071	-.0103
#2	.5306	18.60	.1278	1.494	2.625	1082.	-.0002	-.0086
#3	.5481	18.76	.1263	1.302	2.503	1059.	.0034	-.0095

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.702**	**.0010**	**.0756**	**.0042**	**-.0055**	**.0031**	**.1777**	**-.0030**
Stddev	.001	.0053	.0002	.0004	.0041	.0004	.0018	.0021
%RSD	.0346	513.9	.2718	10.45	75.31	13.21	1.011	69.03
#1	1.702	.0020	.0757	.0047	-.0021	.0030	.1757	-.0029
#2	1.702	.0058	.0757	.0041	-.0043	.0028	.1791	-.0051
#3	1.701	-.0047	.0754	.0039	-.0101	.0036	.1783	-.0010

Zoom In Zoom Out

Sample Name: jc75718-8a Acquired: 10/25/2018 2:45:42 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0031**	**.3414**
Stddev	.0054	.0021
%RSD	171.8	.6237
#1	.0040	.3393
#2	-.0026	.3435
#3	.0081	.3413

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94997.**	**4445.5**	**4145.1**	**10222.**
Stddev	308.	12.8	7.5	13.
%RSD	.32442	.28684	.18051	.12311
#1	94685.	4446.1	4139.2	10208.
#2	95301.	4458.0	4153.5	10234.
#3	95005.	4432.5	4142.5	10223.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 2:51:19 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.971**	**2.016**	**1.985**	**2.033**	**1.974**	**1.985**	**2.054**	**2.010**	**.2377**
Stddev	.016	.017	.002	.004	.007	.005	.007	.003	.0010
%RSD	.8324	.8364	.1004	.1724	.3336	.2646	.3527	.1439	.4133
#1	1.972	2.023	1.985	2.036	1.980	1.990	2.061	2.013	.2389
#2	1.954	1.996	1.987	2.033	1.973	1.987	2.055	2.011	.2374
#3	1.987	2.027	1.983	2.029	1.967	1.980	2.047	2.007	.2370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.988**	**2.104**	**2.042**	**1.915**	**2.048**	**2.063**	**2.040**	**40.05**	**39.14**
Stddev	.007	.002	.001	.006	.003	.007	.001	.32	.37
%RSD	.3713	.1036	.0436	.2904	.1334	.3609	.0686	.8068	.9568
#1	1.994	2.106	2.041	1.908	2.051	2.071	2.040	40.21	39.36
#2	1.988	2.104	2.043	1.919	2.047	2.060	2.042	39.68	38.71
#3	1.980	2.102	2.042	1.917	2.046	2.057	2.039	40.27	39.36
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.01**	**39.24**	**37.83**	**39.48**	**2.026**	**2.063**	**5.214**	**2.044**	**1.971**
Stddev	.31	.49	.35	.31	.001	.001	.008	.004	.014
%RSD	.8149	1.253	.9122	.7837	.0504	.0638	.1510	.2006	.7030
#1	38.14	39.37	37.96	39.56	2.025	2.062	5.221	2.042	1.974
#2	37.65	38.70	37.44	39.14	2.027	2.065	5.216	2.048	1.955
#3	38.23	39.66	38.09	39.75	2.026	2.063	5.205	2.040	1.982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 2:51:19 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.998**	**1.982**	**2.052**	**1.960**	**2.023**	**1.997**	**2.031**
Stddev	.007	.005	.009	.004	.003	.018	.004
%RSD	.3514	.2366	.4133	.2045	.1356	.8912	.1821
#1	2.004	1.978	2.060	1.963	2.022	1.997	2.032
#2	1.999	1.988	2.052	1.955	2.026	1.980	2.034
#3	1.991	1.981	2.043	1.961	2.021	2.015	2.027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96656.**	**4416.7**	**4188.2**	**10398.**
Stddev	320.	45.2	2.5	11.
%RSD	.33069	1.0234	.05939	.10801
#1	96310.	4390.6	4185.4	10389.
#2	96718.	4468.9	4189.2	10394.
#3	96940.	4390.6	4190.1	10410.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 2:56:24 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0000**	**.0001**	**-.0000**	**.0001**	**-.0012**	**.0000**	**.0001**
Stddev	.0002	.0000	.0001	.0001	.0001	.0001	.0000	.0002
%RSD	62.96	293.4	90.60	302.5	187.9	6.511	1301.	358.1
#1	.0004	-.0000	.0000	.0001	-.0001	-.0012	-.0000	.0001
#2	.0003	.0000	.0001	-.0000	.0001	-.0011	-.0000	.0002
#3	.0001	.0000	.0002	-.0001	.0001	-.0012	.0000	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0016**	**.0000**	**-.0005**	**.0001**	**-.0011**	**.0004**	**.0006**	**.0004**
Stddev	.0001	.0001	.0001	.0004	.0008	.0004	.0010	.0002
%RSD	7.584	289.9	22.48	699.7	69.05	116.5	163.3	41.11
#1	-.0016	-.0001	-.0005	.0000	-.0009	.0001	-.0004	.0005
#2	-.0017	.0000	-.0004	-.0003	-.0004	.0002	.0007	.0006
#3	-.0015	.0001	-.0006	.0005	-.0020	.0009	.0015	.0002
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0014							
Low Limit	-.0014							

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**-.0096**	**-.0002**	**-.0260**	**-.0407**	**.0541**	**-.0016**	**.0003**
Stddev	.0078	.0039	.0006	.0060	.0160	.0046	.0005	.0006
%RSD	319.6	40.21	335.0	23.17	39.38	8.504	34.75	176.6
#1	-.0025	-.0060	.0003	-.0232	-.0271	.0493	-.0020	.0010
#2	.0115	-.0137	-.0000	-.0219	-.0366	.0546	-.0018	.0001
#3	-.0017	-.0091	-.0008	-.0329	-.0583	.0584	-.0010	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 2:56:24 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0017**	**-.0001**	**-.0001**	**.0001**	**.0002**	**.0001**	**-.0016**	**-.0006**
Stddev	.0002	.0002	.0001	.0004	.0001	.0001	.0019	.0004
%RSD	9.581	181.9	49.44	281.9	56.00	72.60	118.4	59.80
#1	-.0015	-.0001	-.0002	.0003	.0004	.0002	-.0004	-.0007
#2	-.0018	.0001	-.0001	-.0003	.0001	.0001	-.0038	-.0002
#3	-.0017	-.0003	-.0001	.0004	.0002	.0001	-.0006	-.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0000**	**.0038**
Stddev	.0007	.0007
%RSD	7417.	18.55
#1	-.0007	.0044
#2	.0007	.0040
#3	-.0000	.0030
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99796.**	**4505.4**	**4317.9**	**11092.**
Stddev	164.	9.4	8.0	7.
%RSD	.16454	.20866	.18583	.06448
#1	99727.	4502.6	4327.1	11100.
#2	99984.	4515.9	4312.6	11090.
#3	99678.	4497.7	4313.9	11086.

Zoom In Zoom Out

Sample Name: jc75718-9a Acquired: 10/25/2018 3:01:56 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1434**	**-.0002**	**.0015**	**-.0011**	**.0003**	**.0020**	**.0731**	**.0023**
Stddev	.0005	.0002	.0006	.0002	.0007	.0012	.0007	.0009
%RSD	.3552	91.47	41.35	15.69	233.1	62.25	.9866	40.10
#1	.1440	-.0002	.0022	-.0013	-.0003	.0006	.0723	.0022
#2	.1432	-.0000	.0011	-.0010	.0002	.0025	.0732	.0033
#3	.1430	-.0004	.0011	-.0010	.0011	.0029	.0738	.0014

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0079**	**.0008**	**.1534**	**.0156**	F **-.0129**	**.0105**	**.0056**	**-.0010**
Stddev	.0008	.0003	.0002	.0003	.0031	.0042	.0050	.0030
%RSD	9.898	37.68	.1247	2.083	23.79	40.27	90.35	296.5
#1	-.0083	.0011	.1532	.0159	-.0125	.0088	.0113	.0022
#2	-.0070	.0009	.1536	.0152	-.0161	.0074	.0019	-.0037
#3	-.0083	.0005	.1534	.0157	-.0100	.0153	.0035	-.0015

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1473**	**19.14**	**.0471**	**2.528**	**1.651**	F **1034.**	**.0134**	**-.0058**
Stddev	.0410	.14	.0157	.198	.084	9.	.0020	.0012
%RSD	27.80	.7555	33.40	7.829	5.069	.9160	15.05	20.22
#1	.1340	19.03	.0636	2.373	1.554	1043.	.0122	-.0048
#2	.1932	19.08	.0324	2.461	1.707	1024.	.0124	-.0071
#3	.1146	19.30	.0452	2.751	1.690	1034.	.0158	-.0055

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8193**	**.0026**	**.0776**	**.0023**	**.0001**	**.0022**	**.3330**	**-.0013**
Stddev	.0026	.0043	.0008	.0006	.0026	.0003	.0078	.0038
%RSD	.3176	163.1	1.065	24.78	4419.	12.94	2.348	303.0
#1	.8219	.0047	.0777	.0017	.0018	.0019	.3301	-.0006
#2	.8192	.0055	.0767	.0027	-.0030	.0023	.3419	.0022
#3	.8167	-.0023	.0784	.0025	.0013	.0025	.3271	-.0053

Zoom In Zoom Out

Sample Name: jc75718-9a Acquired: 10/25/2018 3:01:56 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0021**	**.2807**
Stddev	.0020	.0014
%RSD	91.83	.4949
#1	.0004	.2815
#2	.0018	.2815
#3	.0043	.2791

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95302.**	**4457.6**	**4163.2**	**10280.**
Stddev	588.	5.8	5.2	4.
%RSD	.61703	.12986	.12517	.03405
#1	95939.	4459.6	4158.2	10280.
#2	95186.	4451.1	4168.6	10284.
#3	94780.	4462.1	4162.8	10277.

Zoom In Zoom Out

Sample Name: jc75718-10a Acquired: 10/25/2018 3:07:34 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2705**	**-.0001**	**.0004**	**.0062**	**.0013**	**.0035**	**.9662**	**.0117**
Stddev	.0010	.0004	.0007	.0009	.0008	.0005	.0006	.0013
%RSD	.3566	696.8	163.3	13.97	58.97	13.29	.0594	11.36
#1	.2707	-.0005	.0010	.0056	.0004	.0040	.9668	.0113
#2	.2714	.0002	.0006	.0058	.0019	.0034	.9658	.0107
#3	.2695	.0001	-.0003	.0072	.0016	.0031	.9659	.0132

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0074**	**.0015**	**.0215**	**.0062**	F **-.0142**	**.0267**	**.0032**	**.0014**
Stddev	.0006	.0002	.0008	.0028	.0016	.0021	.0029	.0009
%RSD	8.223	11.38	3.607	45.56	11.31	7.703	92.51	65.52
#1	-.0081	.0015	.0212	.0044	-.0124	.0286	.0000	.0017
#2	-.0069	.0013	.0208	.0095	-.0155	.0245	.0058	.0004
#3	-.0073	.0017	.0223	.0048	-.0148	.0271	.0036	.0021

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7264**	**9.323**	**1.960**	**.5717**	**3.580**	F **1380.**	**.0293**	**-.0091**
Stddev	.0588	.048	.022	.1859	.021	13.	.0026	.0009
%RSD	8.098	.5108	1.133	32.52	.5870	.9247	9.019	9.494
#1	.6985	9.317	1.940	.7422	3.571	1389.	.0320	-.0085
#2	.6867	9.373	1.984	.5993	3.564	1385.	.0267	-.0101
#3	.7939	9.279	1.957	.3735	3.604	1365.	.0291	-.0086

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.642**	**.0050**	**.0534**	**.0055**	**-.0047**	**.0022**	**.2121**	**-.0026**
Stddev	.005	.0007	.0014	.0009	.0017	.0002	.0089	.0032
%RSD	.3332	13.83	2.548	16.21	35.57	7.633	4.198	122.7
#1	1.645	.0042	.0521	.0050	-.0033	.0023	.2019	-.0063
#2	1.636	.0051	.0548	.0066	-.0065	.0023	.2168	-.0005
#3	1.646	.0055	.0531	.0050	-.0043	.0020	.2178	-.0010

Zoom In Zoom Out

Sample Name: jc75718-10a Acquired: 10/25/2018 3:07:34 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0019**	**.0354**
Stddev	.0043	.0016
%RSD	228.6	4.546
#1	.0043	.0364
#2	.0045	.0362
#3	-.0031	.0336

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94942.**	**4509.7**	**4148.6**	**10146.**
Stddev	183.	9.6	5.8	2.
%RSD	.19263	.21242	.13895	.01656
#1	94734.	4517.2	4154.3	10147.
#2	95080.	4498.9	4148.7	10144.
#3	95011.	4512.9	4142.8	10148.

Zoom In Zoom Out

Sample Name: jc75718-11a Acquired: 10/25/2018 3:13:11 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3213**	**.0004**	**.0004**	**.0087**	**.0023**	**.0031**	**1.618**	**.0139**
Stddev	.0019	.0004	.0003	.0005	.0005	.0009	.005	.0013
%RSD	.5839	91.53	80.24	6.211	19.57	28.17	.3198	9.120
#1	.3192	.0008	.0003	.0081	.0022	.0038	1.612	.0140
#2	.3224	.0001	.0001	.0090	.0019	.0033	1.620	.0151
#3	.3224	.0003	.0007	.0090	.0028	.0021	1.621	.0125

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0062**	**.0015**	**.0360**	**.0094**	F **-.0201**	**.0141**	**.0024**	**-.0009**
Stddev	.0012	.0010	.0005	.0006	.0025	.0040	.0050	.0019
%RSD	18.71	67.97	1.521	6.649	12.29	28.64	205.3	226.4
#1	-.0074	.0025	.0353	.0094	-.0228	.0167	-.0026	-.0020
#2	-.0051	.0006	.0362	.0088	-.0192	.0161	.0025	-.0020
#3	-.0061	.0012	.0363	.0101	-.0181	.0094	.0074	.0014

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9246**	**9.673**	**4.036**	**.9619**	**3.655**	F **1361.**	**.0240**	**-.0087**
Stddev	.0202	.021	.046	.1467	.029	17.	.0018	.0013
%RSD	2.180	.2126	1.145	15.25	.7828	1.221	7.346	15.30
#1	.9191	9.668	3.996	1.108	3.625	1379.	.0260	-.0099
#2	.9078	9.656	4.026	.8143	3.682	1359.	.0232	-.0073
#3	.9469	9.696	4.087	.9637	3.657	1346.	.0228	-.0089

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.316**	**.0010**	**.0534**	**.0019**	**-.0049**	**.0029**	**.2608**	**-.0027**
Stddev	.008	.0010	.0011	.0010	.0013	.0004	.0062	.0041
%RSD	.5924	108.3	2.142	53.31	26.32	14.12	2.358	152.5
#1	1.310	-.0001	.0527	.0027	-.0064	.0028	.2626	-.0013
#2	1.325	.0020	.0547	.0023	-.0042	.0026	.2539	-.0073
#3	1.314	.0010	.0528	.0008	-.0041	.0034	.2658	.0005

Zoom In Zoom Out

Sample Name: jc75718-11a Acquired: 10/25/2018 3:13:11 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0047**	**.0358**
Stddev	.0048	.0011
%RSD	100.3	3.045
#1	.0101	.0346
#2	.0029	.0366
#3	.0012	.0363

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95213.**	**4469.7**	**4157.8**	**10183.**
Stddev	170.	2.2	4.3	6.
%RSD	.17812	.04986	.10232	.05515
#1	95406.	4467.7	4161.1	10184.
#2	95141.	4472.1	4159.4	10188.
#3	95091.	4469.4	4153.0	10177.

Zoom In Zoom Out

Sample Name: jc75718-12a Acquired: 10/25/2018 3:18:47 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1483**	**.0000**	**.0006**	**.0010**	**.0013**	**-.0016**	**.3687**	**.0106**
Stddev	.0012	.0001	.0008	.0006	.0013	.0006	.0008	.0014
%RSD	.8429	188.8	138.3	60.33	94.39	37.74	.2224	13.04
#1	.1474	.0001	.0013	.0008	.0010	-.0014	.3695	.0092
#2	.1497	-.0000	.0005	.0016	.0003	-.0011	.3679	.0120
#3	.1477	.0000	-.0002	.0005	.0027	-.0023	.3685	.0105

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0074**	**.0010**	**.0071**	**.0056**	F **-.0149**	**.0092**	**-.0019**	**.0035**
Stddev	.0016	.0004	.0010	.0025	.0029	.0031	.0058	.0025
%RSD	21.51	45.46	14.15	44.31	19.29	33.41	299.9	72.57
#1	-.0074	.0009	.0073	.0070	-.0183	.0110	-.0025	.0006
#2	-.0090	.0006	.0060	.0070	-.0133	.0057	-.0074	.0053
#3	-.0058	.0014	.0080	.0027	-.0133	.0110	.0041	.0046

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2728**	**12.21**	**.0622**	**1.300**	**1.695**	F **1362.**	**.0143**	**-.0093**
Stddev	.0409	.06	.0118	.083	.117	9.	.0031	.0003
%RSD	15.00	.4957	18.99	6.361	6.923	.6394	21.62	2.794
#1	.2596	12.15	.0752	1.270	1.828	1362.	.0130	-.0093
#2	.3187	12.27	.0520	1.236	1.606	1371.	.0121	-.0095
#3	.2401	12.19	.0596	1.393	1.650	1353.	.0178	-.0090

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.724**	**.0037**	**.0550**	**.0024**	**-.0046**	**.0014**	**.2388**	**-.0069**
Stddev	.006	.0012	.0008	.0008	.0016	.0005	.0071	.0025
%RSD	.3655	32.36	1.537	33.29	35.53	34.95	2.989	36.80
#1	1.727	.0039	.0541	.0016	-.0051	.0016	.2337	-.0098
#2	1.717	.0024	.0551	.0023	-.0059	.0017	.2357	-.0050
#3	1.729	.0048	.0558	.0032	-.0028	.0008	.2470	-.0059

Zoom In Zoom Out

Sample Name: jc75718-12a Acquired: 10/25/2018 3:18:47 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0022**	**.0682**
Stddev	.0015	.0029
%RSD	67.96	4.200
#1	.0015	.0665
#2	.0039	.0715
#3	.0012	.0666

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94827.**	**4552.9**	**4132.8**	**10143.**
Stddev	215.	5.6	.6	17.
%RSD	.22686	.12406	.01531	.16760
#1	94593.	4550.5	4133.0	10124.
#2	94871.	4548.9	4132.0	10153.
#3	95017.	4559.4	4133.2	10153.

Zoom In Zoom Out

Sample Name: jc75718-13a Acquired: 10/25/2018 3:24:23 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1129**	**.0002**	**.0005**	**.0037**	**-.0008**	**.0054**	**2.391**	**.0093**	**-.0073**
Stddev	.0012	.0002	.0007	.0006	.0001	.0008	.011	.0002	.0010
%RSD	1.040	110.4	155.6	15.91	7.385	14.11	.4592	1.667	13.68
#1	.1138	-.0000	-.0002	.0031	-.0007	.0053	2.401	.0093	-.0062
#2	.1134	.0002	.0012	.0042	-.0008	.0046	2.379	.0091	-.0081
#3	.1116	.0003	.0003	.0038	-.0008	.0061	2.391	.0094	-.0077

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021**	**.0086**	**.0071**	**-.0083**	**.0059**	**-.0030**	**-.0006**	**.2180**	**2.734**
Stddev	.0007	.0003	.0015	.0065	.0030	.0028	.0022	.0783	.020
%RSD	31.91	3.924	20.69	78.06	50.96	92.07	349.3	35.94	.7141
#1	.0015	.0087	.0086	-.0015	.0057	-.0001	-.0028	.1621	2.728
#2	.0028	.0082	.0069	-.0090	.0090	-.0056	-.0006	.3075	2.756
#3	.0019	.0089	.0057	-.0143	.0030	-.0034	.0015	.1843	2.718

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0313**	**.5949**	**1.783**	F **1044.**	**.0109**	**-.0087**	**.9985**	**.0035**	**.0119**
Stddev	.0253	.1054	.069	13.	.0017	.0005	.0042	.0034	.0003
%RSD	80.89	17.72	3.861	1.282	15.55	5.220	.4221	97.50	2.541
#1	.0153	.6320	1.765	1056.	.0120	-.0091	.9947	.0072	.0122
#2	.0181	.4760	1.859	1046.	.0118	-.0082	.9977	.0005	.0118
#3	.0605	.6768	1.725	1029.	.0090	-.0088	1.003	.0028	.0116

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**-.0048**	**.0008**	**.1614**	**-.0007**	**.0013**	**.0460**
Stddev	.0005	.0048	.0010	.0168	.0059	.0044	.0038
%RSD	31.06	101.7	128.1	10.44	812.3	325.7	8.199
#1	.0011	-.0002	.0004	.1667	-.0069	.0051	.0499
#2	.0016	-.0043	.0019	.1425	.0048	.0025	.0459
#3	.0021	-.0098	.0000	.1749	-.0000	-.0035	.0423

Zoom In Zoom Out

Sample Name: jc75718-13a Acquired: 10/25/2018 3:24:23 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95746.**	**4501.4**	**4192.1**	**10309.**
Stddev	382.	22.9	7.6	7.
%RSD	.39858	.50968	.18248	.07153
#1	95505.	4479.7	4184.4	10305.
#2	96186.	4499.1	4192.3	10304.
#3	95547.	4525.4	4199.7	10317.

Zoom In Zoom Out

Sample Name: jc75718-14a Acquired: 10/25/2018 3:30:00 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1039**	**.0001**	**.0008**	**.0023**	**.0004**	**.0003**	**.4758**	**.0068**
Stddev	.0009	.0002	.0002	.0004	.0007	.0005	.0023	.0010
%RSD	.8682	169.0	28.51	16.88	157.9	164.9	.4807	13.98
#1	.1033	-.0001	.0010	.0020	.0001	.0007	.4770	.0074
#2	.1035	.0003	.0006	.0023	.0012	-.0003	.4773	.0057
#3	.1050	.0001	.0007	.0027	-.0000	.0004	.4732	.0073

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0069**	**.0003**	**.0163**	**.0067**	F **-.0104**	**.0051**	**.0018**	**-.0008**
Stddev	.0000	.0005	.0006	.0016	.0070	.0057	.0031	.0051
%RSD	.4101	161.1	3.962	24.42	67.52	112.9	168.7	648.6
#1	-.0069	.0003	.0156	.0085	-.0164	.0028	.0053	-.0057
#2	-.0069	.0008	.0167	.0055	-.0121	.0009	.0007	.0045
#3	-.0069	-.0002	.0167	.0061	-.0027	.0115	-.0006	-.0011

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2385**	**11.46**	**.0614**	**1.601**	**4.489**	F **1052.**	**.0027**	**-.0101**
Stddev	.0225	.10	.0059	.061	.135	13.	.0028	.0017
%RSD	9.442	.8354	9.663	3.790	3.008	1.269	101.4	16.37
#1	.2126	11.47	.0673	1.583	4.562	1044.	.0021	-.0097
#2	.2496	11.55	.0554	1.551	4.333	1068.	.0004	-.0087
#3	.2533	11.36	.0615	1.668	4.571	1045.	.0058	-.0119

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.040**	**.0043**	**.0538**	**.0035**	**-.0080**	**.0014**	**.1595**	**-.0050**
Stddev	.002	.0008	.0001	.0011	.0042	.0004	.0072	.0014
%RSD	.0840	18.06	.2549	31.58	52.16	31.62	4.545	28.13
#1	2.042	.0034	.0536	.0031	-.0091	.0011	.1641	-.0066
#2	2.039	.0047	.0538	.0047	-.0034	.0019	.1512	-.0039
#3	2.039	.0049	.0539	.0026	-.0115	.0012	.1632	-.0046

Zoom In Zoom Out

Sample Name: jc75718-14a Acquired: 10/25/2018 3:30:00 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0029**	**.0955**
Stddev	.0045	.0038
%RSD	152.9	3.962
#1	-.0002	.0975
#2	.0081	.0911
#3	.0010	.0978

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95449.**	**4480.8**	**4192.2**	**10319.**
Stddev	395.	16.6	2.0	5.
%RSD	.41398	.37027	.04856	.04890
#1	95174.	4478.8	4189.9	10313.
#2	95270.	4465.4	4193.6	10322.
#3	95902.	4498.4	4193.2	10322.

Zoom In Zoom Out

Sample Name: jc75718-15a Acquired: 10/25/2018 3:35:38 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0663**	**.0002**	**.0001**	**.0019**	**.0011**	**.0080**	**.7007**	**.0097**	**-.0068**
Stddev	.0010	.0007	.0009	.0005	.0004	.0008	.0035	.0006	.0009
%RSD	1.444	263.8	887.1	26.89	38.21	9.363	.5049	5.989	13.83
#1	.0666	-.0004	.0011	.0025	.0015	.0078	.6992	.0103	-.0077
#2	.0670	.0009	-.0002	.0019	.0012	.0075	.6982	.0097	-.0069
#3	.0652	.0002	-.0006	.0015	.0006	.0089	.7047	.0091	-.0058

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0085**	**.0062**	**-.0069**	**.0026**	**-.0015**	**-.0028**	**.4074**	**2.538**
Stddev	.0002	.0008	.0032	.0063	.0032	.0023	.0015	.0651	.024
%RSD	28.65	9.854	51.94	91.19	122.2	152.3	53.67	15.97	.9629
#1	.0008	.0076	.0027	-.0007	.0048	.0011	-.0018	.4647	2.535
#2	.0005	.0086	.0091	-.0133	-.0010	-.0023	-.0021	.3367	2.564
#3	.0005	.0093	.0068	-.0068	.0040	-.0033	-.0045	.4209	2.515

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2114**	**.6189**	**1.909**	F **1040.**	**-.0025**	**-.0095**	**1.256**	**.0034**	**.0126**
Stddev	.0131	.0481	.082	7.	.0018	.0001	.002	.0026	.0004
%RSD	6.210	7.765	4.273	.7150	73.24	1.487	.1465	76.79	2.996
#1	.2037	.5640	1.991	1045.	-.0033	-.0096	1.256	.0029	.0126
#2	.2039	.6536	1.828	1044.	-.0037	-.0096	1.258	.0061	.0130
#3	.2266	.6390	1.907	1032.	-.0004	-.0093	1.254	.0010	.0122

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0051**	**-.0013**	**.0015**	**.1438**	**-.0024**	**-.0009**	**.0445**
Stddev	.0006	.0052	.0003	.0040	.0059	.0020	.0008
%RSD	11.68	413.2	22.56	2.812	241.4	212.8	1.872
#1	.0055	-.0042	.0018	.1482	.0041	-.0027	.0454
#2	.0044	.0047	.0012	.1403	-.0040	.0012	.0437
#3	.0053	-.0043	.0015	.1429	-.0074	-.0013	.0444

Zoom In Zoom Out

Sample Name: jc75718-15a Acquired: 10/25/2018 3:35:38 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95592.**	**4448.7**	**4183.7**	**10287.**
Stddev	444.	26.0	7.3	4.
%RSD	.46399	.58514	.17373	.03527
#1	95587.	4467.5	4175.6	10288.
#2	96038.	4418.9	4189.6	10290.
#3	95151.	4459.6	4185.9	10283.

Zoom In Zoom Out

Sample Name: jc75718-16a Acquired: 10/25/2018 3:41:14 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2779**	**.0000**	**.0007**	**-.0008**	**.0004**	**-.0001**	**.1179**	**.0025**
Stddev	.0010	.0003	.0000	.0007	.0010	.0007	.0011	.0009
%RSD	.3438	696.0	4.697	85.03	255.7	1121.	.8914	35.91
#1	.2786	-.0001	.0007	-.0000	-.0008	.0008	.1190	.0036
#2	.2768	-.0001	.0007	-.0012	.0012	-.0006	.1178	.0019
#3	.2782	.0004	.0007	-.0013	.0008	-.0003	.1169	.0021

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0084**	**.0016**	**.0272**	**.0165**	F **-.0159**	**.0286**	**.0001**	**-.0021**
Stddev	.0001	.0006	.0002	.0022	.0041	.0029	.0018	.0032
%RSD	1.036	35.21	.8380	13.38	25.78	9.967	1256.	151.0
#1	-.0085	.0009	.0270	.0188	-.0191	.0280	.0015	-.0040
#2	-.0083	.0018	.0274	.0163	-.0113	.0262	.0008	-.0038
#3	-.0084	.0020	.0271	.0144	-.0172	.0318	-.0019	.0016

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1357**	**22.12**	**.0236**	**2.394**	**3.346**	F **1334.**	**.0412**	**-.0066**
Stddev	.0120	.08	.0147	.091	.085	12.	.0006	.0007
%RSD	8.823	.3413	62.10	3.787	2.535	.8685	1.467	10.10
#1	.1357	22.20	.0185	2.473	3.281	1340.	.0411	-.0059
#2	.1237	22.12	.0401	2.295	3.315	1342.	.0419	-.0072
#3	.1476	22.05	.0122	2.412	3.442	1321.	.0407	-.0067

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.102**	**.0031**	**.1014**	**.0015**	**-.0043**	**.0008**	**.1822**	**-.0019**
Stddev	.009	.0023	.0007	.0007	.0020	.0007	.0025	.0032
%RSD	.4430	75.58	.6850	47.57	46.98	89.03	1.347	170.6
#1	2.112	.0042	.1021	.0023	-.0027	.0015	.1802	-.0053
#2	2.098	.0004	.1007	.0009	-.0035	.0003	.1815	.0009
#3	2.095	.0046	.1016	.0013	-.0065	.0005	.1849	-.0011

Zoom In Zoom Out

Sample Name: jc75718-16a Acquired: 10/25/2018 3:41:14 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0020**	**.5145**
Stddev	.0016	.0040
%RSD	76.82	.7787
#1	.0038	.5190
#2	.0015	.5133
#3	.0008	.5113

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94777.**	**4533.1**	**4130.1**	**10169.**
Stddev	700.	17.5	6.1	7.
%RSD	.73830	.38624	.14711	.06670
#1	94118.	4527.7	4133.7	10166.
#2	94703.	4518.9	4123.1	10164.
#3	95511.	4552.6	4133.6	10177.

Zoom In Zoom Out

Sample Name: jc75718-17a Acquired: 10/25/2018 3:46:50 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4108**	**-.0000**	**.0011**	**.0018**	**.0008**	**.0068**	**2.247**	**.0043**
Stddev	.0006	.0003	.0004	.0008	.0008	.0010	.005	.0015
%RSD	.1394	2113.	37.52	41.66	106.1	15.26	.2118	35.12
#1	.4108	-.0001	.0016	.0026	.0004	.0070	2.246	.0032
#2	.4102	.0003	.0007	.0011	.0017	.0057	2.243	.0036
#3	.4113	-.0003	.0011	.0018	.0002	.0078	2.252	.0060

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0098**	**.0029**	**.0255**	**.0099**	F **-.0138**	**.1120**	**.0011**	**.0008**
Stddev	.0002	.0004	.0003	.0020	.0064	.0023	.0130	.0037
%RSD	2.071	12.47	1.287	20.45	46.01	2.062	1131.	441.5
#1	-.0100	.0026	.0258	.0120	-.0211	.1147	.0089	.0031
#2	-.0097	.0033	.0252	.0079	-.0113	.1111	-.0138	.0029
#3	-.0096	.0029	.0255	.0098	-.0091	.1104	.0084	-.0035

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3382**	**18.97**	**.2742**	**2.525**	**7.768**	F **1041.**	**.0407**	**-.0100**
Stddev	.0078	.15	.0047	.226	.101	19.	.0005	.0007
%RSD	2.313	.7790	1.723	8.950	1.297	1.863	1.308	7.196
#1	.3462	19.11	.2734	2.723	7.735	1063.	.0403	-.0096
#2	.3378	18.82	.2793	2.572	7.687	1027.	.0405	-.0108
#3	.3306	18.99	.2699	2.279	7.880	1032.	.0413	-.0095

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.394**	**.0047**	**.0978**	**.0049**	**-.0055**	**.0011**	**.3147**	**-.0059**
Stddev	.007	.0003	.0007	.0013	.0023	.0007	.0134	.0032
%RSD	.5229	7.376	.7424	25.56	41.72	59.30	4.246	53.72
#1	1.392	.0043	.0970	.0063	-.0070	.0018	.3002	-.0079
#2	1.388	.0049	.0979	.0039	-.0028	.0010	.3175	-.0075
#3	1.402	.0048	.0984	.0046	-.0066	.0005	.3265	-.0022

Zoom In Zoom Out

Sample Name: jc75718-17a Acquired: 10/25/2018 3:46:50 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0022**	**.0555**
Stddev	.0034	.0026
%RSD	156.1	4.707
#1	.0040	.0583
#2	-.0018	.0548
#3	.0043	.0532

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95463.**	**4446.1**	**4154.4**	**10262.**
Stddev	242.	9.7	2.0	4.
%RSD	.25344	.21877	.04820	.03745
#1	95390.	4445.8	4155.9	10261.
#2	95733.	4455.9	4152.1	10266.
#3	95266.	4436.4	4155.1	10259.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 3:52:28 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.982**	**2.006**	**1.982**	**2.037**	**1.961**	**1.963**	**2.040**	**2.007**	**.2358**
Stddev	.005	.004	.000	.002	.010	.011	.011	.004	.0012
%RSD	.2311	.2003	.0217	.1122	.4973	.5471	.5451	.1899	.5076
#1	1.987	2.010	1.982	2.035	1.951	1.951	2.028	2.006	.2345
#2	1.982	2.003	1.982	2.039	1.971	1.968	2.050	2.011	.2369
#3	1.978	2.004	1.982	2.037	1.961	1.970	2.042	2.004	.2360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.972**	**2.111**	**2.058**	**1.891**	**2.050**	**2.073**	**2.053**	**40.11**	**39.20**
Stddev	.009	.004	.003	.003	.003	.001	.005	.07	.15
%RSD	.4471	.1899	.1216	.1560	.1380	.0533	.2227	.1729	.3895
#1	1.963	2.114	2.057	1.892	2.051	2.072	2.049	40.19	39.28
#2	1.979	2.113	2.061	1.893	2.053	2.074	2.053	40.06	39.02
#3	1.975	2.107	2.056	1.888	2.047	2.074	2.058	40.09	39.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**37.59**	**37.18**	**37.94**	**39.51**	**2.030**	**2.078**	**5.226**	**2.047**	**1.970**
Stddev	.11	.07	.06	.08	.007	.003	.009	.002	.003
%RSD	.3024	.1921	.1622	.2091	.3649	.1331	.1789	.0951	.1580
#1	37.67	37.10	38.01	39.60	2.022	2.075	5.215	2.048	1.973
#2	37.46	37.21	37.92	39.46	2.031	2.081	5.233	2.049	1.968
#3	37.63	37.23	37.89	39.45	2.037	2.079	5.229	2.045	1.968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 3:52:28 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.990**	**1.978**	**2.035**	**1.971**	**2.027**	**1.993**	**2.041**
Stddev	.011	.003	.011	.002	.005	.007	.003
%RSD	.5376	.1336	.5290	.1159	.2373	.3703	.1529
#1	1.978	1.975	2.023	1.969	2.022	1.999	2.038
#2	1.997	1.978	2.042	1.973	2.026	1.996	2.045
#3	1.995	1.981	2.041	1.969	2.032	1.985	2.041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97366.**	**4386.5**	**4179.2**	**10411.**
Stddev	600.	22.9	3.9	11.
%RSD	.61586	.52095	.09258	.10913
#1	98054.	4374.4	4183.3	10421.
#2	96955.	4412.9	4178.6	10399.
#3	97089.	4372.3	4175.6	10414.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 3:57:32 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0000**	**.0000**	**-.0002**	**-.0001**	**-.0022**	**-.0000**	**.0001**
Stddev	.0001	.0001	.0002	.0002	.0002	.0002	.0000	.0001
%RSD	2291.	1193.	1117.	95.91	337.1	7.782	160.8	227.7
#1	-.0001	.0001	-.0002	-.0004	.0000	-.0021	.0000	.0001
#2	.0000	.0000	.0001	-.0001	.0001	-.0021	-.0000	.0001
#3	.0001	-.0001	.0002	-.0001	-.0003	-.0024	-.0000	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0020**	**-.0000**	**-.0006**	**.0004**	**.0002**	**.0002**	**.0000**	**.0002**
Stddev	.0000	.0002	.0000	.0013	.0024	.0008	.0015	.0004
%RSD	.9286	400.8	5.459	327.4	1114.	448.0	57960.	244.2
#1	-.0020	-.0001	-.0006	.0017	-.0014	-.0000	-.0016	.0004
#2	-.0020	.0001	-.0006	.0003	-.0009	.0010	.0002	-.0003
#3	-.0019	-.0001	-.0006	-.0008	.0029	-.0005	.0014	.0004
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0014							
Low Limit	-.0014							

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0111**	**-.0141**	**.0020**	**-.0028**	**-.0089**	**.0728**	**-.0014**	**.0004**
Stddev	.0060	.0032	.0028	.0144	.0183	.0020	.0010	.0006
%RSD	54.44	22.48	140.3	510.8	206.6	2.758	69.34	148.1
#1	.0121	-.0178	.0000	.0012	.0120	.0751	-.0007	.0010
#2	.0165	-.0127	.0052	.0091	-.0226	.0717	-.0010	.0001
#3	.0046	-.0119	.0008	-.0188	-.0160	.0715	-.0025	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 3:57:32 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0030**	**.0004**	**-.0000**	**.0002**	**.0001**	**.0001**	**-.0024**	**-.0007**
Stddev	.0004	.0005	.0001	.0001	.0005	.0000	.0008	.0002
%RSD	14.68	138.5	289.3	55.62	621.9	28.70	32.69	34.42
#1	-.0029	.0010	.0000	.0001	-.0002	.0001	-.0026	-.0009
#2	-.0027	.0002	.0000	.0003	.0006	.0001	-.0031	-.0008
#3	-.0035	-.0000	-.0001	.0002	-.0002	.0001	-.0015	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0007**	**.0052**
Stddev	.0004	.0009
%RSD	63.42	17.33
#1	-.0010	.0054
#2	-.0009	.0059
#3	-.0002	.0042
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100320.**	**4469.6**	**4325.0**	**11144.**
Stddev	371.	14.2	4.3	11.
%RSD	.36952	.31817	.10027	.10117
#1	99897.	4486.0	4330.0	11157.
#2	100460.	4460.4	4323.2	11137.
#3	100600.	4462.4	4321.9	11138.

Zoom In Zoom Out

Sample Name: jc75718-18a Acquired: 10/25/2018 4:03:06 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1055**	**-.0001**	**.0004**	**.0005**	**.0005**	**.0018**	**.6424**	**.0094**
Stddev	.0015	.0003	.0008	.0010	.0012	.0010	.0016	.0010
%RSD	1.467	285.0	187.1	206.7	224.8	58.34	.2469	10.23
#1	.1065	-.0004	.0008	-.0007	-.0002	.0025	.6416	.0087
#2	.1037	.0001	-.0005	.0012	.0020	.0023	.6442	.0105
#3	.1062	.0001	.0010	.0010	-.0001	.0006	.6414	.0090

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0094**	**.0015**	**.0080**	**.0043**	F **-.0160**	**-.0011**	**-.0084**	**-.0020**
Stddev	.0016	.0005	.0004	.0037	.0012	.0046	.0026	.0013
%RSD	17.03	33.25	5.239	85.71	7.233	404.2	30.56	65.80
#1	-.0112	.0019	.0082	.0009	-.0152	.0003	-.0099	-.0031
#2	-.0082	.0015	.0082	.0083	-.0155	.0026	-.0055	-.0022
#3	-.0088	.0010	.0075	.0038	-.0173	-.0063	-.0099	-.0006

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2544**	**4.669**	**.0149**	**.4528**	**4.248**	F **1083.**	**.0102**	**-.0066**
Stddev	.0305	.004	.0078	.0896	.140	17.	.0020	.0009
%RSD	11.98	.0963	52.03	19.79	3.297	1.590	19.44	13.69
#1	.2802	4.673	.0067	.5408	4.098	1101.	.0096	-.0071
#2	.2208	4.664	.0160	.3617	4.375	1081.	.0086	-.0056
#3	.2621	4.670	.0221	.4559	4.270	1067.	.0124	-.0072

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.262**	**.0031**	**.0176**	**.0009**	**-.0018**	**.0008**	**.3105**	**-.0002**
Stddev	.003	.0017	.0005	.0007	.0036	.0005	.0042	.0028
%RSD	.2667	56.82	2.903	84.70	206.3	59.18	1.345	1822.
#1	1.259	.0036	.0175	.0001	.0024	.0005	.3145	-.0019
#2	1.266	.0011	.0182	.0015	-.0031	.0005	.3109	.0031
#3	1.261	.0045	.0172	.0009	-.0045	.0013	.3062	-.0017

Zoom In Zoom Out

Sample Name: jc75718-18a Acquired: 10/25/2018 4:03:06 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0005**	**.0423**
Stddev	.0026	.0022
%RSD	489.3	5.120
#1	.0034	.0433
#2	-.0001	.0399
#3	-.0017	.0439

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95726.**	**4440.6**	**4157.5**	**10258.**
Stddev	173.	19.0	4.4	7.
%RSD	.18079	.42859	.10576	.06494
#1	95750.	4418.7	4153.5	10251.
#2	95542.	4450.3	4156.8	10265.
#3	95885.	4452.9	4162.2	10258.

Zoom In Zoom Out

Sample Name: jc75718-19a Acquired: 10/25/2018 4:08:44 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1600**	**.0000**	**.0003**	**-.0003**	**.0027**	**.0016**	**1.002**	**.0137**
Stddev	.0012	.0003	.0008	.0010	.0010	.0005	.003	.0013
%RSD	.7437	802.9	283.9	344.7	38.24	32.95	.3004	9.880
#1	.1611	.0004	.0005	.0004	.0015	.0021	1.005	.0134
#2	.1603	-.0002	-.0006	.0002	.0031	.0015	.9993	.0151
#3	.1587	-.0001	.0009	-.0015	.0035	.0011	1.001	.0124

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0085**	**.0005**	**.0071**	**.0071**	F **-.0271**	**.0003**	**.0019**	**-.0016**
Stddev	.0008	.0016	.0003	.0024	.0023	.0049	.0026	.0037
%RSD	9.231	344.2	4.795	34.16	8.454	1877.	141.5	226.5
#1	-.0089	.0019	.0074	.0095	-.0293	.0059	.0027	-.0055
#2	-.0076	-.0013	.0072	.0047	-.0273	-.0032	-.0011	.0019
#3	-.0090	.0008	.0068	.0070	-.0247	-.0019	.0040	-.0013

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3970**	**8.237**	**.0202**	**.9528**	**5.041**	F **1341.**	**.0129**	**-.0082**
Stddev	.0337	.015	.0040	.0851	.041	14.	.0021	.0004
%RSD	8.498	.1759	19.54	8.927	.8056	1.037	16.52	4.303
#1	.3929	8.225	.0248	.8695	5.040	1327.	.0142	-.0086
#2	.3655	8.233	.0180	1.039	5.082	1340.	.0104	-.0080
#3	.4326	8.253	.0178	.9495	5.000	1355.	.0140	-.0080

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.585**	**.0025**	**.0407**	**.0005**	**-.0065**	**.0013**	**.3224**	**-.0040**
Stddev	.004	.0020	.0003	.0003	.0047	.0002	.0058	.0047
%RSD	.2402	81.93	.7881	66.56	72.37	16.99	1.811	119.5
#1	1.581	.0002	.0409	.0007	-.0031	.0013	.3280	-.0033
#2	1.585	.0039	.0407	.0001	-.0046	.0016	.3229	.0004
#3	1.588	.0033	.0403	.0007	-.0120	.0011	.3163	-.0090

Zoom In Zoom Out

Sample Name: jc75718-19a Acquired: 10/25/2018 4:08:44 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0031**	**.0403**
Stddev	.0028	.0032
%RSD	90.03	8.004
#1	.0064	.0367
#2	.0017	.0426
#3	.0013	.0417

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95021.**	**4424.6**	**4138.4**	**10173.**
Stddev	243.	7.4	1.8	5.
%RSD	.25531	.16716	.04282	.05135
#1	94767.	4431.2	4137.0	10177.
#2	95250.	4416.6	4137.9	10167.
#3	95047.	4426.1	4140.4	10175.

Zoom In Zoom Out

Sample Name: jc75718-20a Acquired: 10/25/2018 4:14:22 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5160**	**.0002**	**.0006**	**.0014**	**.0008**	**-.0034**	**1.569**	**.0050**
Stddev	.0012	.0002	.0008	.0009	.0009	.0011	.004	.0020
%RSD	.2331	67.07	132.0	61.26	112.0	32.27	.2623	39.71
#1	.5153	.0002	.0013	.0005	.0017	-.0031	1.573	.0037
#2	.5154	.0001	-.0003	.0022	.0008	-.0046	1.565	.0040
#3	.5174	.0004	.0010	.0016	-.0001	-.0025	1.569	.0073

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0082**	**.0023**	**.0175**	**.0129**	F **-.0138**	**.0340**	**-.0003**	**-.0003**
Stddev	.0010	.0014	.0009	.0019	.0040	.0040	.0035	.0022
%RSD	12.22	58.55	5.166	15.08	29.09	11.86	1244.	742.4
#1	-.0083	.0021	.0167	.0112	-.0102	.0335	.0001	-.0022
#2	-.0071	.0011	.0185	.0151	-.0182	.0302	.0030	.0021
#3	-.0091	.0037	.0174	.0124	-.0131	.0382	-.0040	-.0008

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4148**	**17.15**	**.6031**	**2.689**	**2.087**	F **1067.**	**.0385**	**-.0100**
Stddev	.0344	.09	.0161	.067	.081	6.	.0037	.0007
%RSD	8.281	.5221	2.674	2.487	3.871	.5356	9.647	7.238
#1	.3765	17.06	.5863	2.626	1.997	1071.	.0418	-.0092
#2	.4251	17.23	.6184	2.683	2.152	1069.	.0345	-.0106
#3	.4429	17.17	.6047	2.759	2.112	1060.	.0394	-.0103

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.310**	**.0028**	**.0990**	**.0040**	**-.0101**	**.0016**	**.2019**	**-.0049**
Stddev	.005	.0023	.0007	.0006	.0037	.0005	.0093	.0012
%RSD	.3668	84.81	.6632	15.85	36.83	31.16	4.591	25.17
#1	1.306	.0029	.0983	.0046	-.0059	.0012	.2114	-.0043
#2	1.315	.0050	.0996	.0033	-.0118	.0021	.1928	-.0063
#3	1.307	.0003	.0992	.0041	-.0128	.0014	.2015	-.0040

Zoom In Zoom Out

Sample Name: jc75718-20a Acquired: 10/25/2018 4:14:22 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0030**	**.0415**
Stddev	.0060	.0035
%RSD	200.6	8.495
#1	.0038	.0456
#2	.0086	.0393
#3	-.0034	.0398

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96034.**	**4450.4**	**4147.4**	**10241.**
Stddev	312.	18.2	6.2	6.
%RSD	.32507	.40876	.14948	.05981
#1	95800.	4464.9	4146.4	10240.
#2	96388.	4430.0	4141.7	10236.
#3	95913.	4456.2	4154.0	10248.

Zoom In Zoom Out

Sample Name: jc75718-21a Acquired: 10/25/2018 4:19:58 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1726**	**-.0000**	**-.0000**	**-.0008**	**.0019**	**-.0003**	**.6321**	**.0098**	**-.0090**
Stddev	.0021	.0001	.0002	.0006	.0013	.0007	.0050	.0008	.0014
%RSD	1.208	537.3	1226.	78.05	68.62	262.0	.7841	8.583	15.92
#1	.1747	.0000	-.0002	-.0002	.0023	.0003	.6372	.0097	-.0105
#2	.1725	-.0001	-.0001	-.0008	.0030	-.0001	.6318	.0090	-.0087
#3	.1705	.0000	.0003	-.0014	.0004	-.0010	.6273	.0107	-.0077

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0046**	**.0058**	**-.0047**	**.0009**	**-.0013**	**.0013**	**.2363**	**6.972**
Stddev	.0007	.0006	.0051	.0078	.0020	.0021	.0013	.0148	.008
%RSD	113.4	13.93	87.90	166.0	221.3	167.3	104.1	6.243	.1090
#1	-.0002	.0042	.0114	-.0121	-.0012	-.0003	.0028	.2197	6.977
#2	.0011	.0042	.0042	.0035	.0027	-.0037	.0007	.2480	6.976
#3	.0009	.0053	.0017	-.0055	.0011	.0002	.0004	.2412	6.963

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0156**	**.7998**	**7.239**	F **1034.**	**.0091**	**-.0098**	**1.462**	**.0011**	**.0351**
Stddev	.0064	.1205	.090	12.	.0012	.0004	.009	.0036	.0006
%RSD	40.73	15.07	1.241	1.129	13.70	4.154	.6110	337.9	1.675
#1	.0131	.9358	7.342	1047.	.0105	-.0095	1.470	.0001	.0347
#2	.0109	.7573	7.189	1030.	.0081	-.0095	1.464	.0050	.0358
#3	.0228	.7063	7.185	1025.	.0086	-.0102	1.452	-.0020	.0348

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**-.0088**	**.0011**	**.3414**	**-.0034**	**-.0013**	**.0552**
Stddev	.0013	.0034	.0000	.0097	.0043	.0023	.0038
%RSD	91.49	38.42	2.811	2.849	127.0	178.7	6.910
#1	.0026	-.0066	.0011	.3334	-.0019	.0012	.0538
#2	.0000	-.0126	.0011	.3385	-.0083	-.0034	.0524
#3	.0016	-.0071	.0010	.3522	-.0000	-.0017	.0596

Zoom In Zoom Out

Sample Name: jc75718-21a Acquired: 10/25/2018 4:19:58 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95195.**	**4444.8**	**4167.0**	**10288.**
Stddev	661.	8.1	3.5	20.
%RSD	.69398	.18323	.08351	.19101
#1	94504.	4440.5	4166.0	10294.
#2	95261.	4439.7	4170.9	10304.
#3	95820.	4454.2	4164.1	10266.

Zoom In Zoom Out

Sample Name: mp9842-b1 Acquired: 10/25/2018 4:25:36 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.923**	**1.930**	**1.903**	**1.959**	**1.934**	**1.937**	**2.017**	**1.925**
Stddev	.003	.001	.003	.003	.050	.048	.053	.003
%RSD	.1306	.0373	.1683	.1638	2.605	2.454	2.610	.1555
#1	1.923	1.929	1.900	1.955	1.909	1.908	1.989	1.923
#2	1.926	1.930	1.903	1.961	1.991	1.992	2.077	1.928
#3	1.921	1.930	1.906	1.960	1.900	1.911	1.984	1.923

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2374**	**1.941**	**2.030**	**1.983**	**1.814**	**1.965**	**1.959**	**1.995**
Stddev	.0055	.049	.003	.004	.012	.002	.003	.006
%RSD	2.336	2.522	.1617	.2026	.6642	.1006	.1461	.3261
#1	.2342	1.915	2.030	1.980	1.803	1.962	1.958	1.992
#2	.2438	1.998	2.033	1.982	1.827	1.966	1.958	1.991
#3	.2342	1.911	2.026	1.988	1.812	1.966	1.963	2.002

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.09**	**24.50**	**23.50**	**24.04**	**23.75**	**24.83**	**1.934**	**2.043**
Stddev	.04	.04	.04	.06	.01	.02	.008	.003
%RSD	.1735	.1675	.1738	.2311	.0573	.0930	.4125	.1599
#1	25.08	24.50	23.50	24.11	23.75	24.81	1.927	2.040
#2	25.14	24.46	23.54	24.01	23.74	24.85	1.932	2.042
#3	25.06	24.54	23.46	24.01	23.76	24.83	1.943	2.046

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0192**	**2.003**	**1.913**	**1.990**	**1.919**	**2.021**	F **-.2182**	**-.0092**
Stddev	.0026	.004	.004	.050	.005	.052	.0044	.0005
%RSD	13.69	.1786	.2126	2.527	.2481	2.552	2.014	5.868
#1	.0195	1.999	1.911	1.963	1.914	1.992	-.2165	-.0089
#2	.0164	2.005	1.918	2.048	1.924	2.081	-.2232	-.0089
#3	.0216	2.004	1.910	1.959	1.920	1.991	-.2149	-.0099

Zoom In Zoom Out

Sample Name: mp9842-b1 Acquired: 10/25/2018 4:25:36 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0002**	**1.971**
Stddev	.0004	.004
%RSD	159.8	.1853
#1	-.0006	1.972
#2	-.0003	1.966
#3	.0002	1.973

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96365.**	**4438.9**	**4194.4**	**10559.**
Stddev	2435.	15.1	8.5	11.
%RSD	2.5269	.33957	.20157	.10457
#1	97627.	4452.0	4201.3	10571.
#2	93558.	4442.1	4196.8	10549.
#3	97910.	4422.4	4184.9	10558.

Zoom In Zoom Out

Sample Name: mp9842-mb1 Acquired: 10/25/2018 4:30:41 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: water

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0000**	**.0001**	**-.0002**	**.0001**	**-.0019**	**.0000**	**-.0002**
Stddev	.0001	.0000	.0001	.0001	.0000	.0001	.0000	.0000
%RSD	61.73	390.6	66.40	33.34	37.81	5.695	271.2	20.03
#1	.0003	-.0000	.0002	-.0003	.0001	-.0018	-.0000	-.0003
#2	.0001	.0000	.0001	-.0001	.0001	-.0018	.0000	-.0002
#3	.0002	.0001	.0001	-.0002	.0001	-.0020	.0000	-.0002

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0015**	**.0001**	**-.0010**	**.0005**	F **-.0023**	**.0003**	**-.0004**	**.0010**
Stddev	.0001	.0000	.0001	.0005	.0007	.0008	.0009	.0008
%RSD	6.064	30.12	13.47	100.5	30.96	323.0	198.9	78.34
#1	-.0016	.0002	-.0011	-.0001	-.0016	-.0004	-.0011	.0004
#2	-.0015	.0001	-.0010	.0006	-.0031	.0000	.0005	.0007
#3	-.0015	.0001	-.0009	.0009	-.0023	.0012	-.0007	.0018

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0122**	**-.0156**	**.0024**	**.0035**	**-.0175**	**.0689**	**-.0010**	**.0002**
Stddev	.0092	.0052	.0010	.0117	.0278	.0040	.0001	.0003
%RSD	75.18	33.52	40.73	339.4	158.9	5.759	7.374	154.9
#1	.0061	-.0121	.0034	-.0071	.0058	.0691	-.0009	.0006
#2	.0078	-.0216	.0023	.0014	-.0482	.0727	-.0009	.0001
#3	.0228	-.0132	.0015	.0161	-.0101	.0648	-.0010	-.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0083**	**-.0002**	**.0001**	**.0001**	**.0016**	**.0012**	**.0010**	**-.0013**
Stddev	.0004	.0001	.0001	.0001	.0007	.0000	.0013	.0003
%RSD	5.413	60.71	72.69	73.65	43.05	2.524	138.1	19.92
#1	.0081	-.0002	.0002	.0002	.0015	.0012	.0001	-.0012
#2	.0079	-.0004	.0001	.0002	.0023	.0012	.0025	-.0011
#3	.0088	-.0001	.0000	.0000	.0010	.0012	.0003	-.0017

Zoom In Zoom Out

Sample Name: mp9842-mb1 Acquired: 10/25/2018 4:30:41 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: water

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0002**	**.0051**
Stddev	.0003	.0007
%RSD	150.7	13.62
#1	.0001	.0056
#2	-.0004	.0043
#3	-.0002	.0054

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100500.**	**4476.8**	**4306.6**	**11111.**
Stddev	363.	5.7	4.6	10.
%RSD	.36157	.12680	.10726	.09209
#1	100300.	4481.2	4306.7	11121.
#2	100270.	4478.7	4302.0	11100.
#3	100910.	4470.4	4311.2	11112.

Zoom In Zoom Out

Sample Name: mp9842-s1 Acquired: 10/25/2018 4:36:14 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.127**	**1.823**	**1.868**	**1.861**	**1.760**	**1.848**	**3.025**	**1.826**	**.2286**
Stddev	.005	.005	.002	.005	.007	.004	.017	.004	.0008
%RSD	.2247	.2703	.1059	.2707	.3920	.2055	.5637	.2201	.3384
#1	2.122	1.817	1.866	1.858	1.754	1.844	3.006	1.824	.2280
#2	2.128	1.826	1.869	1.867	1.759	1.849	3.033	1.831	.2282
#3	2.131	1.826	1.869	1.859	1.767	1.852	3.037	1.825	.2294

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.799**	**1.911**	**1.973**	**1.706**	**1.871**	**1.960**	**1.958**	**24.47**	**200.0**
Stddev	.006	.005	.004	.003	.005	.005	.001	.06	.3
%RSD	.3443	.2849	.1910	.1892	.2576	.2393	.0673	.2515	.1718
#1	1.793	1.906	1.968	1.703	1.867	1.965	1.957	24.41	199.6
#2	1.798	1.917	1.975	1.708	1.876	1.955	1.959	24.48	200.0
#3	1.805	1.911	1.975	1.708	1.869	1.961	1.958	24.53	200.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.56**	**30.35**	**38.75**	**179.6**	**2.068**	**1.938**	**11.50**	**1.880**	**2.977**
Stddev	.06	.23	.12	2.5	.002	.001	.01	.002	.010
%RSD	.2071	.7651	.3040	1.406	.1103	.0569	.0990	.0893	.3319
#1	30.49	30.08	38.62	176.8	2.068	1.936	11.50	1.880	2.966
#2	30.61	30.49	38.80	181.7	2.071	1.939	11.51	1.881	2.980
#3	30.57	30.47	38.83	180.4	2.066	1.938	11.49	1.878	2.985

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.846**	**1.827**	**1.878**	F **107.0**	**-.0098**	**.0060**	**2.437**
Stddev	.006	.002	.006	.1	.0013	.0009	.003
%RSD	.3383	.1248	.3445	.1078	13.69	15.58	.1099
#1	1.840	1.829	1.871	106.9	-.0094	.0059	2.435
#2	1.845	1.828	1.877	107.1	-.0087	.0051	2.440
#3	1.853	1.825	1.884	107.0	-.0113	.0069	2.436

Zoom In Zoom Out

Sample Name: mp9842-s1 Acquired: 10/25/2018 4:36:14 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**93449.**	**4305.0**	**3936.9**	**9770.4**
Stddev	267.	13.5	1.9	7.9
%RSD	.28561	.31391	.04715	.08070
#1	93746.	4316.5	3939.0	9776.1
#2	93371.	4290.1	3935.9	9761.4
#3	93230.	4308.6	3935.8	9773.7

Zoom In Zoom Out

Sample Name: mp9842-s2 Acquired: 10/25/2018 4:41:36 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.136**	**1.810**	**1.884**	**1.871**	**1.773**	**1.864**	**3.031**	**1.839**	**.2309**
Stddev	.003	.002	.002	.002	.005	.009	.009	.001	.0007
%RSD	.1498	.1128	.0997	.0989	.2847	.4708	.3122	.0745	.2975
#1	2.133	1.808	1.886	1.873	1.772	1.856	3.040	1.840	.2307
#2	2.134	1.810	1.882	1.869	1.779	1.873	3.033	1.838	.2317
#3	2.139	1.812	1.884	1.872	1.769	1.861	3.021	1.839	.2304

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.812**	**1.924**	**1.989**	**1.715**	**1.883**	**1.975**	**1.973**	**24.34**	**198.6**
Stddev	.005	.001	.001	.004	.003	.001	.003	.03	.2
%RSD	.3055	.0405	.0648	.2479	.1482	.0659	.1621	.1149	.1044
#1	1.808	1.923	1.990	1.719	1.882	1.977	1.970	24.36	198.8
#2	1.819	1.924	1.988	1.714	1.886	1.974	1.972	24.31	198.6
#3	1.810	1.924	1.988	1.711	1.881	1.974	1.976	24.36	198.4

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.29**	**28.57**	**38.84**	**177.1**	**2.086**	**1.957**	**11.60**	**1.898**	**2.977**
Stddev	.02	.11	.04	1.0	.001	.003	.01	.003	.003
%RSD	.0583	.3966	.1094	.5430	.0575	.1358	.1060	.1544	.1084
#1	30.28	28.68	38.82	178.0	2.085	1.954	11.60	1.900	2.973
#2	30.28	28.56	38.82	176.1	2.087	1.957	11.59	1.895	2.977
#3	30.32	28.46	38.89	177.1	2.086	1.959	11.61	1.900	2.979

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.864**	**1.846**	**1.889**	F **107.6**	**-.0103**	**.0068**	**2.455**
Stddev	.009	.003	.008	.1	.0006	.0004	.002
%RSD	.5120	.1574	.4185	.0633	6.150	6.502	.0760
#1	1.858	1.844	1.881	107.6	-.0098	.0065	2.453
#2	1.875	1.844	1.897	107.5	-.0110	.0067	2.457
#3	1.860	1.849	1.888	107.7	-.0101	.0073	2.455

Zoom In Zoom Out

Sample Name: mp9842-s2 Acquired: 10/25/2018 4:41:36 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**93566.**	**4354.5**	**3931.5**	**9769.1**
Stddev	282.	9.3	5.8	9.4
%RSD	.30108	.21392	.14774	.09653
#1	93700.	4351.8	3933.4	9769.7
#2	93242.	4346.9	3936.1	9778.2
#3	93755.	4364.9	3925.0	9759.4

Zoom In Zoom Out

Sample Name: jc76471-9 Acquired: 10/25/2018 4:46:57 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2865**	**-.0004**	**.0002**	**-.0005**	**.0017**	**.0040**	**1.176**	**.0006**	**-.0013**
Stddev	.0008	.0000	.0000	.0000	.0001	.0001	.001	.0002	.0001
%RSD	.2760	5.274	6.624	8.415	6.997	3.332	.0778	40.05	6.791
#1	.2858	-.0004	.0003	-.0006	.0017	.0038	1.176	.0005	-.0013
#2	.2862	-.0004	.0002	-.0005	.0016	.0041	1.175	.0009	-.0013
#3	.2874	-.0004	.0002	-.0006	.0018	.0040	1.177	.0005	-.0012

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063**	**.0067**	**.0124**	**-.0007**	**.0000**	**.0001**	**.0012**	**.1544**	**168.5**
Stddev	.0003	.0001	.0004	.0004	.0003	.0010	.0005	.0191	.3
%RSD	3.979	1.595	3.460	60.20	883.6	675.1	39.34	12.40	.1595
#1	.0063	.0067	.0129	-.0011	-.0003	.0012	.0010	.1556	168.5
#2	.0061	.0066	.0122	-.0004	.0002	-.0006	.0018	.1729	168.2
#3	.0066	.0068	.0121	-.0005	.0001	-.0002	.0009	.1347	168.7

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.215**	**6.931**	**14.68**	**147.6**	**.1702**	**.0085**	**10.72**	**-.0011**	**1.117**
Stddev	.025	.047	.01	.8	.0009	.0003	.02	.0002	.002
%RSD	.3071	.6816	.0933	.5093	.5195	4.052	.1817	21.63	.2052
#1	8.241	6.972	14.69	147.2	.1710	.0088	10.71	-.0013	1.117
#2	8.191	6.879	14.68	147.2	.1705	.0084	10.74	-.0013	1.114
#3	8.214	6.942	14.66	148.5	.1692	.0081	10.71	-.0009	1.119

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0098**	**.0031**	**.0029**	F **103.3**	**-.0019**	**.0053**	**.4730**
Stddev	.0009	.0010	.0001	.1	.0013	.0005	.0005
%RSD	9.276	32.57	4.283	.0821	67.34	8.698	.0966
#1	.0091	.0043	.0031	103.3	-.0034	.0050	.4734
#2	.0108	.0028	.0028	103.4	-.0008	.0051	.4732
#3	.0094	.0023	.0029	103.2	-.0017	.0058	.4725

Zoom In Zoom Out

Sample Name: jc76471-9 Acquired: 10/25/2018 4:46:57 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94134.**	**4444.1**	**3971.7**	**9971.1**
Stddev	60.	11.8	5.3	5.5
%RSD	.06332	.26458	.13384	.05497
#1	94168.	4432.4	3976.7	9965.9
#2	94169.	4455.9	3966.1	9970.6
#3	94065.	4444.0	3972.3	9976.9

Zoom In Zoom Out

Sample Name: mp9842-sd1 Acquired: 10/25/2018 4:52:21 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2842**	**-.0004**	**.0004**	**-.0017**	**.0010**	**-.0014**	**1.202**	**-.0009**	**-.0084**
Stddev	.0008	.0001	.0005	.0007	.0006	.0004	.002	.0005	.0007
%RSD	.2705	33.36	151.3	40.34	60.91	28.64	.1404	53.92	8.624
#1	.2838	-.0003	.0010	-.0017	.0008	-.0011	1.200	-.0006	-.0089
#2	.2851	-.0005	.0002	-.0024	.0016	-.0019	1.202	-.0015	-.0076
#3	.2838	-.0003	-.0001	-.0010	.0005	-.0013	1.203	-.0007	-.0087

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063**	**.0059**	**.0121**	**-.0028**	**.0027**	**-.0026**	**.0009**	**.1845**	**170.2**
Stddev	.0006	.0006	.0059	.0010	.0015	.0076	.0031	.0399	.5
%RSD	8.992	10.22	48.68	35.13	56.27	287.2	345.1	21.61	.3136
#1	.0058	.0063	.0120	-.0034	.0032	.0060	-.0010	.1918	170.2
#2	.0069	.0061	.0180	-.0034	.0010	-.0056	.0045	.1415	170.7
#3	.0063	.0052	.0062	-.0017	.0040	-.0083	-.0007	.2202	169.6

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.244**	**7.040**	**14.30**	**147.2**	**.1563**	**.0025**	**10.44**	**-.0034**	**1.116**
Stddev	.045	.009	.20	.7	.0035	.0006	.04	.0018	.007
%RSD	.5456	.1264	1.369	.4528	2.215	23.98	.3716	55.03	.6015
#1	8.269	7.050	14.41	147.7	.1556	.0021	10.41	-.0055	1.118
#2	8.270	7.038	14.43	147.5	.1601	.0032	10.42	-.0020	1.122
#3	8.192	7.033	14.08	146.5	.1533	.0022	10.48	-.0026	1.109

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0119**	**-.0007**	**.0026**	**100.3**	**-.0015**	**.0028**	**.4726**
Stddev	.0008	.0005	.0007	.2	.0040	.0005	.0013
%RSD	6.515	74.95	27.35	.2484	273.8	18.57	.2736
#1	.0110	-.0005	.0018	100.3	.0015	.0027	.4733
#2	.0123	-.0013	.0027	100.1	-.0060	.0024	.4711
#3	.0124	-.0003	.0032	100.6	.0001	.0034	.4735

Zoom In Zoom Out

Sample Name: mp9842-sd1 Acquired: 10/25/2018 4:52:21 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98080.**	**4482.8**	**4185.5**	**10686.**
Stddev	51.	8.9	13.1	36.
%RSD	.05150	.19905	.31353	.33395
#1	98043.	4484.7	4194.8	10703.
#2	98059.	4473.0	4191.1	10710.
#3	98137.	4490.5	4170.5	10645.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 4:57:48 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.004**	**1.975**	**1.982**	**2.040**	**1.967**	**1.978**	**2.049**	**2.008**	**.2369**
Stddev	.002	.002	.001	.001	.013	.007	.010	.005	.0004
%RSD	.0740	.0886	.0584	.0631	.6648	.3771	.4807	.2317	.1574
#1	2.005	1.976	1.983	2.039	1.963	1.986	2.048	2.005	.2369
#2	2.003	1.973	1.981	2.039	1.956	1.972	2.041	2.007	.2365
#3	2.003	1.976	1.983	2.041	1.981	1.974	2.060	2.014	.2373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.982**	**2.120**	**2.063**	**1.879**	**2.057**	**2.080**	**2.053**	**39.94**	**38.92**
Stddev	.009	.004	.003	.003	.004	.004	.004	.04	.15
%RSD	.4374	.1988	.1589	.1486	.2181	.1903	.1895	.1052	.3909
#1	1.981	2.115	2.066	1.878	2.053	2.084	2.057	39.98	38.90
#2	1.974	2.122	2.060	1.882	2.056	2.076	2.049	39.90	38.77
#3	1.991	2.122	2.062	1.877	2.062	2.080	2.053	39.92	39.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**37.05**	**38.75**	**38.01**	**39.71**	**2.030**	**2.084**	**5.233**	**2.049**	**1.978**
Stddev	.06	.20	.06	.01	.002	.002	.007	.002	.001
%RSD	.1513	.5040	.1678	.0236	.1079	.0829	.1269	.1129	.0705
#1	37.09	38.88	38.03	39.71	2.032	2.086	5.241	2.047	1.980
#2	36.99	38.53	37.95	39.70	2.030	2.082	5.231	2.052	1.977
#3	37.08	38.85	38.07	39.72	2.028	2.085	5.228	2.048	1.977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 4:57:48 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.006**	**1.982**	**2.056**	**1.977**	**2.028**	**1.982**	**2.050**
Stddev	.008	.005	.007	.003	.006	.001	.002
%RSD	.3981	.2671	.3426	.1366	.2815	.0385	.1093
#1	2.007	1.988	2.061	1.978	2.034	1.981	2.052
#2	1.998	1.978	2.048	1.974	2.023	1.982	2.051
#3	2.014	1.981	2.058	1.979	2.026	1.982	2.048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96982.**	**4434.2**	**4170.8**	**10396.**
Stddev	361.	22.9	7.8	5.
%RSD	.37270	.51650	.18647	.04716
#1	96971.	4438.2	4162.0	10393.
#2	97348.	4454.8	4174.0	10402.
#3	96625.	4409.5	4176.5	10393.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 5:02:55 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0001**	**-.0001**	**-.0001**	**-.0001**	**-.0021**	**.0000**	**.0002**
Stddev	.0004	.0001	.0001	.0001	.0001	.0003	.0000	.0001
%RSD	201.8	121.9	73.68	77.59	174.3	13.56	555.5	56.51
#1	.0005	-.0000	-.0000	-.0000	.0001	-.0020	.0000	.0002
#2	.0003	-.0000	-.0000	-.0001	-.0001	-.0025	-.0000	.0001
#3	-.0002	-.0001	-.0001	-.0001	-.0002	-.0019	-.0000	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0016**	**.0000**	**-.0005**	**.0005**	**-.0005**	**.0002**	**.0003**	**.0016**
Stddev	.0002	.0001	.0001	.0004	.0016	.0009	.0014	.0006
%RSD	12.56	847.5	20.85	75.15	334.6	470.4	496.5	37.10
#1	-.0018	-.0001	-.0004	.0001	-.0015	-.0008	.0016	.0010
#2	-.0014	.0000	-.0007	.0008	.0014	.0011	.0004	.0021
#3	-.0017	.0001	-.0005	.0007	-.0014	.0003	-.0012	.0017
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0014							
Low Limit	-.0014							

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0083**	**-.0142**	**.0018**	**-.0179**	**-.0174**	**.0676**	**-.0012**	**.0005**
Stddev	.0081	.0044	.0021	.0340	.0166	.0022	.0003	.0005
%RSD	96.63	30.87	114.8	189.8	95.45	3.188	24.23	85.34
#1	.0096	-.0159	-.0006	-.0572	-.0241	.0695	-.0011	.0010
#2	-.0003	-.0092	.0030	.0009	-.0295	.0652	-.0009	.0005
#3	.0157	-.0175	.0029	.0025	.0015	.0680	-.0015	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 5:02:55 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0017**	**.0002**	**-.0002**	**.0002**	**.0004**	**.0002**	**-.0003**	**-.0007**
Stddev	.0004	.0006	.0001	.0002	.0003	.0001	.0016	.0007
%RSD	21.82	279.2	69.08	120.9	80.19	86.48	624.5	110.2
#1	-.0013	-.0005	-.0004	-.0000	.0005	.0003	.0011	-.0015
#2	-.0016	.0007	-.0001	.0004	.0000	.0002	-.0021	-.0002
#3	-.0020	.0005	-.0001	.0002	.0007	.0000	.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0008**	**.0044**
Stddev	.0003	.0007
%RSD	34.72	16.42
#1	-.0012	.0045
#2	-.0007	.0052
#3	-.0006	.0037
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101480.**	**4441.5**	**4331.1**	**11149.**
Stddev	1284.	17.2	11.5	24.
%RSD	1.2655	.38714	.26591	.21687
#1	100820.	4452.5	4333.5	11158.
#2	102950.	4421.7	4318.5	11121.
#3	100650.	4450.4	4341.2	11167.

Zoom In Zoom Out

Sample Name: jc76456-1 Acquired: 10/25/2018 5:08:28 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.063**	**.0017**	**.0034**	**.0361**	**3.454**	**.8563**	**1.281**	**.1684**	**.0031**
Stddev	.002	.0001	.0001	.0001	.008	.0045	.003	.0008	.0001
%RSD	.1140	4.765	1.909	.3073	.2222	.5268	.2552	.4473	1.714
#1	2.062	.0017	.0034	.0361	3.454	.8533	1.282	.1677	.0031
#2	2.061	.0016	.0035	.0362	3.446	.8541	1.277	.1692	.0031
#3	2.066	.0016	.0034	.0360	3.461	.8615	1.283	.1684	.0030

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1836**	**1.614**	**.0499**	**.0014**	**2.075**	**.0020**	**.0121**	**32.55**	**151.1**
Stddev	.0006	.003	.0009	.0017	.002	.0016	.0005	.06	.7
%RSD	.3028	.1642	1.722	125.9	.1180	80.82	4.163	.1864	.4368
#1	.1836	1.615	.0491	.0034	2.077	.0009	.0127	32.57	150.8
#2	.1831	1.611	.0498	.0004	2.074	.0013	.0118	32.48	150.7
#3	.1842	1.616	.0508	.0004	2.073	.0039	.0118	32.60	151.9

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**52.00**	**27.26**	**7.574**	**10.03**	**.1020**	**.0070**	F **38.34**	**.0630**	**.4031**
Stddev	.11	.03	.031	.01	.0010	.0001	.03	.0002	.0002
%RSD	.2109	.1030	.4073	.1092	.9466	1.751	.0655	.3334	.0580
#1	51.88	27.27	7.601	10.02	.1030	.0069	38.36	.0631	.4030
#2	52.02	27.23	7.540	10.04	.1018	.0072	38.36	.0632	.4034
#3	52.10	27.29	7.580	10.05	.1011	.0070	38.32	.0628	.4030

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.176**	**.0061**	**.0059**	**16.33**	**-.0035**	**.0487**	**1.552**
Stddev	.004	.0012	.0001	.01	.0006	.0007	.005
%RSD	.3394	19.48	.8756	.0376	16.30	1.379	.3528
#1	1.175	.0072	.0059	16.34	-.0031	.0491	1.558
#2	1.174	.0063	.0060	16.33	-.0042	.0492	1.551
#3	1.181	.0048	.0059	16.32	-.0033	.0480	1.548

Zoom In Zoom Out

Sample Name: jc76456-1 Acquired: 10/25/2018 5:08:28 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97656.**	**4436.4**	**4094.9**	**10249.**
Stddev	213.	18.4	1.9	4.
%RSD	.21851	.41493	.04692	.03754
#1	97581.	4441.2	4093.9	10245.
#2	97897.	4451.8	4093.7	10250.
#3	97490.	4416.0	4097.1	10252.

Zoom In Zoom Out

Sample Name: jc76471-1 Acquired: 10/25/2018 5:13:44 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2216**	**-.0004**	**.0006**	**.0025**	**.0046**	**.0202**	**.4494**	**.0043**	**-.0014**
Stddev	.0002	.0000	.0001	.0001	.0001	.0000	.0010	.0001	.0001
%RSD	.0889	11.62	14.66	2.693	1.269	.1869	.2244	3.050	8.859
#1	.2214	-.0004	.0005	.0025	.0046	.0202	.4503	.0042	-.0012
#2	.2214	-.0004	.0007	.0025	.0045	.0202	.4483	.0043	-.0014
#3	.2218	-.0004	.0007	.0026	.0047	.0201	.4494	.0045	-.0014

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0100**	**.0166**	**.0026**	**-.0003**	**.0082**	**.0010**	**.0011**	**.7098**	**120.8**
Stddev	.0001	.0002	.0006	.0007	.0005	.0017	.0005	.0024	.2
%RSD	.5036	.9726	23.59	262.6	5.546	167.8	49.16	.3321	.1831
#1	.0100	.0167	.0028	-.0009	.0086	.0022	.0008	.7098	120.9
#2	.0100	.0165	.0030	.0005	.0083	-.0010	.0008	.7075	120.9
#3	.0101	.0168	.0019	-.0004	.0077	.0019	.0017	.7122	120.5

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.265**	**10.07**	**16.89**	**76.57**	**.1522**	**.0065**	**15.71**	**-.0006**	**.8129**
Stddev	.006	.07	.04	.07	.0009	.0003	.07	.0004	.0007
%RSD	.4778	.7309	.2429	.0929	.6045	4.159	.4305	63.19	.0860
#1	1.268	10.03	16.86	76.64	.1533	.0062	15.77	-.0002	.8137
#2	1.269	10.16	16.94	76.58	.1516	.0068	15.72	-.0007	.8125
#3	1.258	10.03	16.87	76.50	.1517	.0065	15.64	-.0009	.8126

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0244**	**.0005**	**.0003**	**23.58**	**-.0026**	**.0074**	**.5219**
Stddev	.0003	.0004	.0001	.09	.0001	.0013	.0014
%RSD	1.179	78.10	36.81	.3956	4.002	17.00	.2703
#1	.0244	.0006	.0004	23.66	-.0027	.0060	.5234
#2	.0247	.0000	.0002	23.61	-.0026	.0078	.5206
#3	.0241	.0007	.0004	23.48	-.0025	.0083	.5217

Zoom In Zoom Out

Sample Name: jc76471-1 Acquired: 10/25/2018 5:13:44 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95709.**	**4420.2**	**4035.5**	**10177.**
Stddev	106.	2.4	17.9	31.
%RSD	.11027	.05522	.44271	.30926
#1	95592.	4420.4	4022.1	10160.
#2	95798.	4417.7	4028.6	10157.
#3	95735.	4422.5	4055.8	10213.

Zoom In Zoom Out

Sample Name: jc76471-2 Acquired: 10/25/2018 5:19:06 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0764**	**-.0005**	**.0006**	**.0012**	**.0098**	**.0304**	**.0902**	**.0072**	**-.0015**
Stddev	.0003	.0000	.0001	.0002	.0002	.0002	.0005	.0002	.0003
%RSD	.3526	8.483	23.73	17.71	2.020	.6486	.5694	2.683	19.95
#1	.0764	-.0005	.0007	.0010	.0099	.0306	.0907	.0069	-.0012
#2	.0761	-.0005	.0005	.0012	.0099	.0302	.0900	.0073	-.0018
#3	.0766	-.0005	.0005	.0014	.0095	.0303	.0897	.0072	-.0015

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0055**	**.1567**	**.0046**	**-.0004**	**.0034**	**-.0000**	**.0035**	**.9764**	**39.87**
Stddev	.0001	.0003	.0005	.0007	.0004	.0009	.0005	.0118	.06
%RSD	1.379	.1876	11.25	180.6	12.77	2982.	15.31	1.210	.1568
#1	.0055	.1569	.0048	-.0009	.0034	.0000	.0030	.9659	39.81
#2	.0054	.1569	.0050	-.0005	.0037	.0009	.0036	.9892	39.86
#3	.0056	.1564	.0040	.0004	.0029	-.0010	.0041	.9740	39.93

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.346**	**2.497**	**19.77**	F **258.2**	**.4492**	**.0087**	**12.25**	**.0021**	**.4579**
Stddev	.015	.024	.02	1.9	.0011	.0001	.03	.0000	.0004
%RSD	.6456	.9541	.1216	.7434	.2369	1.599	.2127	2.075	.0857
#1	2.343	2.518	19.75	256.1	.4504	.0086	12.28	.0021	.4580
#2	2.332	2.471	19.78	258.8	.4490	.0088	12.22	.0022	.4575
#3	2.362	2.501	19.80	259.8	.4483	.0086	12.25	.0021	.4583

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0438**	**.0006**	**.0014**	**23.56**	**-.0018**	**.0056**	**.6796**
Stddev	.0002	.0008	.0001	.02	.0009	.0004	.0039
%RSD	.4510	136.6	6.189	.0766	48.83	7.637	.5673
#1	.0440	.0014	.0014	23.57	-.0018	.0052	.6838
#2	.0438	.0003	.0013	23.54	-.0027	.0057	.6785
#3	.0436	-.0000	.0015	23.57	-.0009	.0060	.6763

Zoom In Zoom Out

Sample Name: jc76471-2 Acquired: 10/25/2018 5:19:06 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94523.**	**4503.2**	**4049.1**	**10021.**
Stddev	517.	9.3	8.9	9.
%RSD	.54674	.20719	.21896	.08873
#1	93962.	4513.7	4041.7	10018.
#2	94625.	4499.7	4058.9	10031.
#3	94981.	4496.0	4046.7	10014.

Zoom In Zoom Out

Sample Name: jc76471-5 Acquired: 10/25/2018 5:24:35 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1175**	**.0003**	**.0005**	**.0024**	**.0140**	**.0405**	**.5226**	**.0076**	**-.0014**
Stddev	.0006	.0000	.0001	.0001	.0002	.0003	.0019	.0003	.0003
%RSD	.4898	8.606	13.11	3.369	1.078	.6626	.3629	4.303	20.61
#1	.1181	.0003	.0006	.0025	.0142	.0407	.5246	.0075	-.0013
#2	.1175	.0003	.0005	.0023	.0139	.0405	.5208	.0080	-.0017
#3	.1169	.0003	.0005	.0024	.0139	.0402	.5224	.0073	-.0012

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0141**	**.1116**	**.0085**	**-.0007**	**.0231**	**-.0010**	**.0011**	**7.105**	**49.47**
Stddev	.0001	.0007	.0011	.0026	.0011	.0011	.0010	.012	.08
%RSD	.6767	.5852	12.61	362.5	4.789	106.4	88.76	.1741	.1657
#1	.0142	.1116	.0081	.0023	.0223	-.0023	.0022	7.117	49.55
#2	.0140	.1110	.0077	-.0020	.0244	-.0003	.0004	7.092	49.46
#3	.0140	.1123	.0097	-.0025	.0227	-.0005	.0006	7.107	49.39

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.294**	**5.966**	**3.001**	**81.51**	**.0617**	**.0014**	**15.76**	**.0009**	**.3063**
Stddev	.025	.041	.014	.23	.0005	.0002	.02	.0007	.0012
%RSD	.2749	.6878	.4808	.2809	.8380	11.51	.1033	86.59	.4056
#1	9.306	6.000	2.989	81.65	.0623	.0012	15.77	.0000	.3072
#2	9.311	5.920	3.017	81.62	.0614	.0015	15.74	.0010	.3069
#3	9.264	5.977	2.998	81.24	.0614	.0014	15.77	.0015	.3049

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1186**	**.0051**	**.0020**	**10.62**	**-.0019**	**.0088**	**.3305**
Stddev	.0017	.0001	.0002	.01	.0002	.0009	.0015
%RSD	1.420	2.586	11.21	.1006	10.90	10.69	.4650
#1	.1205	.0053	.0018	10.61	-.0020	.0078	.3317
#2	.1173	.0050	.0022	10.61	-.0020	.0097	.3288
#3	.1181	.0051	.0018	10.63	-.0017	.0090	.3311

Zoom In Zoom Out

Sample Name: jc76471-5 Acquired: 10/25/2018 5:24:35 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97406.**	**4470.5**	**4144.7**	**10394.**
Stddev	302.	4.9	5.9	11.
%RSD	.30981	.11071	.14345	.10988
#1	97092.	4465.6	4146.0	10400.
#2	97694.	4470.4	4149.8	10402.
#3	97432.	4475.5	4138.2	10381.

Zoom In Zoom Out

Sample Name: jc76471-7 Acquired: 10/25/2018 5:29:57 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0509**	**.0002**	**.0002**	**.0022**	**.0071**	**.0123**	**.3168**	**.0061**	**-.0014**
Stddev	.0001	.0000	.0000	.0003	.0001	.0002	.0014	.0002	.0002
%RSD	.1112	24.42	12.58	15.80	2.029	1.937	.4290	3.341	14.22
#1	.0509	.0002	.0002	.0023	.0071	.0123	.3164	.0061	-.0014
#2	.0510	.0001	.0002	.0025	.0072	.0125	.3183	.0063	-.0012
#3	.0509	.0002	.0002	.0018	.0070	.0120	.3156	.0059	-.0016

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0097**	**.0466**	**.0122**	**-.0014**	**.0047**	**-.0005**	**.0000**	**5.776**	**18.55**
Stddev	.0000	.0002	.0004	.0004	.0010	.0005	.0008	.022	.04
%RSD	.3133	.5089	2.966	27.43	20.15	89.77	3500.	.3892	.2270
#1	.0098	.0469	.0118	-.0015	.0046	-.0007	-.0006	5.797	18.57
#2	.0097	.0464	.0124	-.0018	.0057	-.0010	-.0003	5.779	18.59
#3	.0097	.0464	.0124	-.0010	.0038	-.0000	.0009	5.752	18.51

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.073**	**4.152**	**2.262**	**46.08**	**.1335**	**.0461**	**13.74**	**-.0000**	**.0801**
Stddev	.030	.016	.025	.05	.0004	.0001	.10	.0005	.0003
%RSD	.4976	.3947	1.108	.1113	.3356	.1740	.7285	1423.	.4311
#1	6.088	4.139	2.234	46.14	.1340	.0461	13.85	.0005	.0798
#2	6.092	4.171	2.279	46.04	.1331	.0460	13.66	-.0005	.0805
#3	6.038	4.148	2.275	46.07	.1335	.0461	13.70	-.0001	.0799

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1474**	**-.0010**	**.0033**	**5.823**	**-.0017**	**.0065**	**.3657**
Stddev	.0010	.0003	.0004	.012	.0006	.0011	.0015
%RSD	.7011	31.56	10.90	.2138	32.89	17.11	.4205
#1	.1483	-.0010	.0031	5.833	-.0013	.0061	.3666
#2	.1463	-.0007	.0031	5.809	-.0023	.0056	.3639
#3	.1477	-.0013	.0037	5.825	-.0015	.0077	.3666

Zoom In Zoom Out

Sample Name: jc76471-7 Acquired: 10/25/2018 5:29:57 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99393.**	**4534.6**	**4237.1**	**10737.**
Stddev	373.	8.0	6.7	12.
%RSD	.37488	.17711	.15921	.11245
#1	99442.	4535.5	4232.1	10732.
#2	98999.	4526.1	4244.8	10751.
#3	99739.	4542.1	4234.5	10728.

Zoom In Zoom Out

Sample Name: jc76471-8 Acquired: 10/25/2018 5:35:19 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0755**	**.0008**	**.0003**	**.0028**	**.0101**	**.0189**	**.6943**	**.0071**	**-.0016**
Stddev	.0004	.0000	.0001	.0001	.0001	.0001	.0032	.0001	.0002
%RSD	.5472	2.860	21.41	3.046	.7136	.7647	.4560	1.951	9.761
#1	.0760	.0008	.0004	.0027	.0102	.0191	.6933	.0071	-.0016
#2	.0753	.0008	.0003	.0029	.0100	.0190	.6979	.0069	-.0014
#3	.0752	.0008	.0004	.0027	.0100	.0188	.6918	.0072	-.0017

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0172**	**.0328**	**.0036**	**.0012**	**.0056**	**-.0012**	**.0002**	**4.384**	**136.9**
Stddev	.0002	.0001	.0002	.0015	.0002	.0027	.0011	.004	.2
%RSD	1.246	.2687	4.185	130.1	3.463	215.2	485.9	.0930	.1620
#1	.0175	.0327	.0037	-.0004	.0054	.0017	-.0005	4.382	136.7
#2	.0171	.0329	.0035	.0027	.0058	-.0035	.0015	4.388	137.1
#3	.0171	.0328	.0037	.0012	.0056	-.0019	-.0003	4.380	136.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.441**	**6.470**	**7.330**	**94.95**	**.4316**	**.0007**	F **29.92**	**-.0001**	**.7757**
Stddev	.025	.050	.033	.12	.0010	.0002	.03	.0002	.0011
%RSD	.2941	.7781	.4527	.1301	.2210	33.30	.1157	170.9	.1408
#1	8.458	6.525	7.296	95.09	.4325	.0006	29.95	-.0002	.7770
#2	8.453	6.459	7.363	94.90	.4316	.0005	29.88	.0001	.7751
#3	8.413	6.426	7.330	94.86	.4306	.0009	29.94	-.0003	.7750

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1667**	**.0005**	**.0018**	**53.74**	**-.0040**	**.0088**	**5.368**
Stddev	.0022	.0007	.0001	.03	.0006	.0003	.003
%RSD	1.292	149.5	4.249	.0529	15.84	3.550	.0544
#1	.1658	.0011	.0017	53.75	-.0040	.0091	5.370
#2	.1692	-.0003	.0018	53.71	-.0034	.0085	5.370
#3	.1651	.0006	.0018	53.77	-.0046	.0089	5.365

Zoom In Zoom Out

Sample Name: jc76471-8 Acquired: 10/25/2018 5:35:19 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95634.**	**4506.1**	**4049.4**	**10146.**
Stddev	383.	21.6	6.1	10.
%RSD	.40025	.48028	.14969	.10270
#1	95657.	4519.5	4051.1	10154.
#2	95240.	4481.1	4054.4	10149.
#3	96005.	4517.7	4042.7	10134.

Zoom In Zoom Out

Sample Name: jc76471-10 Acquired: 10/25/2018 5:40:41 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0847**	F **-.0010**	**.0001**	**-.0003**	**.0016**	**.0069**	**.5354**	**.0008**
Stddev	.0001	.0001	.0000	.0001	.0000	.0002	.0001	.0003
%RSD	.1250	7.460	52.47	29.54	2.757	3.276	.0271	40.70
#1	.0848	-.0011	.0001	-.0002	.0016	.0072	.5356	.0009
#2	.0847	-.0009	.0000	-.0004	.0015	.0068	.5353	.0011
#3	.0846	-.0010	.0001	-.0003	.0016	.0068	.5353	.0004

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0009**	**.0043**	**.0256**	**.0044**	**.0015**	**.0024**	**.0019**	**.0009**
Stddev	.0003	.0000	.0002	.0004	.0019	.0005	.0027	.0009
%RSD	30.11	.7713	.7764	9.912	125.2	22.18	146.1	102.1
#1	-.0012	.0042	.0255	.0040	-.0000	.0024	-.0005	.0019
#2	-.0009	.0043	.0259	.0048	.0010	.0018	.0012	.0002
#3	-.0007	.0043	.0255	.0044	.0036	.0029	.0048	.0005

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3346**	F **351.5**	**1.218**	**17.00**	**40.51**	**195.5**	**.7745**	**.0207**
Stddev	.0020	.8	.009	.09	.11	.9	.0020	.0003
%RSD	.6071	.2282	.7525	.5573	.2795	.4354	.2583	1.493
#1	.3323	352.3	1.218	16.91	40.40	196.4	.7725	.0211
#2	.3352	351.6	1.227	17.10	40.49	194.7	.7765	.0207
#3	.3363	350.7	1.209	17.00	40.63	195.5	.7745	.0205

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.92**	**-.0008**	**2.499**	**.0208**	**.0110**	**.0000**	F **328.2**	**-.0032**
Stddev	.02	.0003	.003	.0004	.0009	.0001	.3	.0017
%RSD	.0807	39.87	.1103	2.108	8.179	384.2	.1057	53.94
#1	18.93	-.0010	2.496	.0210	.0102	-.0000	328.0	-.0052
#2	18.92	-.0004	2.500	.0203	.0120	.0002	328.6	-.0024
#3	18.90	-.0009	2.501	.0211	.0108	-.0000	328.1	-.0020

Zoom In Zoom Out

Sample Name: jc76471-10 Acquired: 10/25/2018 5:40:41 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0176**	**1.864**
Stddev	.0007	.005
%RSD	4.205	.2549
#1	.0177	1.859
#2	.0184	1.863
#3	.0169	1.869

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**91620.**	**4375.1**	**3839.9**	**9590.2**
Stddev	207.	15.2	5.2	4.7
%RSD	.22584	.34654	.13530	.04931
#1	91382.	4362.3	3836.0	9589.3
#2	91757.	4371.2	3837.9	9585.9
#3	91721.	4391.8	3845.8	9595.2

Zoom In Zoom Out

Sample Name: jc76471-11 Acquired: 10/25/2018 5:46:11 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4402**	**-.0002**	**.0001**	**-.0002**	**.0045**	**.0199**	**1.232**	**.0018**
Stddev	.0012	.0001	.0001	.0001	.0001	.0002	.010	.0001
%RSD	.2736	40.95	146.1	59.75	2.720	1.241	.7834	5.643
#1	.4395	-.0002	.0001	-.0004	.0043	.0200	1.238	.0018
#2	.4416	-.0002	.0002	-.0001	.0045	.0202	1.236	.0018
#3	.4395	-.0001	-.0001	-.0002	.0046	.0197	1.220	.0019

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0014**	**.0116**	**.0103**	**.0138**	F **-.0028**	**.0052**	**-.0004**	**.0021**
Stddev	.0003	.0002	.0001	.0010	.0011	.0005	.0005	.0001
%RSD	24.25	1.902	.5039	7.209	39.34	10.16	113.1	5.441
#1	-.0016	.0117	.0102	.0129	-.0016	.0054	-.0006	.0021
#2	-.0010	.0117	.0102	.0148	-.0038	.0055	-.0008	.0022
#3	-.0015	.0113	.0103	.0136	-.0030	.0046	.0001	.0020

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.533**	**73.97**	**8.804**	**9.273**	**7.854**	F **321.4**	**.2098**	**.0004**
Stddev	.015	.22	.014	.036	.034	1.1	.0007	.0001
%RSD	.9926	.2942	.1625	.3857	.4325	.3564	.3419	20.52
#1	1.528	73.72	8.819	9.239	7.829	322.5	.2095	.0003
#2	1.521	74.09	8.803	9.310	7.892	320.2	.2093	.0004
#3	1.550	74.10	8.791	9.270	7.839	321.6	.2106	.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.97**	**-.0003**	**.4360**	**.0330**	**.0018**	**.0021**	**2.352**	**-.0009**
Stddev	.02	.0006	.0016	.0000	.0010	.0001	.004	.0010
%RSD	.1621	224.4	.3569	.1016	58.08	5.737	.1636	110.5
#1	11.99	.0003	.4365	.0331	.0007	.0022	2.356	-.0019
#2	11.97	-.0002	.4373	.0330	.0028	.0020	2.348	-.0009
#3	11.95	-.0010	.4343	.0330	.0020	.0020	2.351	.0001

Zoom In Zoom Out

Sample Name: jc76471-11 Acquired: 10/25/2018 5:46:11 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0029**	**.6007**
Stddev	.0008	.0020
%RSD	28.42	.3402
#1	.0023	.6024
#2	.0027	.5984
#3	.0038	.6013

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94124.**	**4469.5**	**4007.8**	**9886.1**
Stddev	696.	15.3	3.8	15.0
%RSD	.73966	.34128	.09451	.15123
#1	93644.	4486.7	4006.7	9884.8
#2	93806.	4457.5	4004.6	9871.9
#3	94923.	4464.3	4012.0	9901.7

Zoom In Zoom Out

Sample Name: jc76471-12 Acquired: 10/25/2018 5:51:43 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1447**	**.0002**	**.0002**	**.0033**	**.0102**	**.0099**	**.3089**	**.0083**	**-.0019**
Stddev	.0007	.0001	.0000	.0001	.0003	.0001	.0004	.0003	.0001
%RSD	.4678	30.66	22.42	1.565	2.842	.7197	.1189	3.471	5.627
#1	.1452	.0001	.0002	.0034	.0105	.0098	.3093	.0081	-.0019
#2	.1439	.0002	.0002	.0033	.0100	.0099	.3088	.0086	-.0020
#3	.1449	.0003	.0001	.0033	.0101	.0099	.3087	.0081	-.0018

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0147**	**.0233**	**.0290**	**-.0006**	**.0052**	**-.0002**	**.0012**	**7.706**	**13.54**
Stddev	.0002	.0000	.0003	.0008	.0010	.0013	.0008	.016	.04
%RSD	1.159	.1930	1.188	148.0	19.51	581.1	66.22	.2085	.3185
#1	.0145	.0233	.0294	-.0002	.0044	-.0013	.0020	7.722	13.59
#2	.0148	.0232	.0289	.0000	.0064	-.0007	.0012	7.690	13.50
#3	.0148	.0233	.0287	-.0015	.0050	.0012	.0004	7.707	13.52

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.78**	**4.690**	**2.373**	**19.31**	**.0291**	**-.0009**	**15.60**	**-.0010**	**.0804**
Stddev	.06	.023	.013	.04	.0004	.0001	.06	.0007	.0004
%RSD	.4946	.4940	.5343	.2070	1.487	11.28	.3535	73.61	.5109
#1	12.84	4.694	2.386	19.36	.0289	-.0008	15.61	-.0013	.0800
#2	12.72	4.665	2.361	19.28	.0288	-.0010	15.65	-.0001	.0804
#3	12.78	4.711	2.372	19.30	.0296	-.0009	15.54	-.0014	.0808

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2040**	**-.0009**	**.0033**	**2.460**	**-.0023**	**.0100**	**.4090**
Stddev	.0011	.0004	.0004	.006	.0014	.0004	.0003
%RSD	.5407	40.69	12.40	.2543	61.74	3.616	.0704
#1	.2039	-.0005	.0032	2.463	-.0031	.0098	.4087
#2	.2051	-.0013	.0030	2.453	-.0031	.0098	.4093
#3	.2029	-.0009	.0037	2.464	-.0007	.0104	.4090

Zoom In Zoom Out

Sample Name: jc76471-12 Acquired: 10/25/2018 5:51:43 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100120.**	**4457.3**	**4228.9**	**10823.**
Stddev	55.	7.2	1.3	12.
%RSD	.05482	.16086	.03019	.11024
#1	100110.	4451.7	4227.4	10811.
#2	100180.	4465.4	4229.7	10823.
#3	100080.	4454.8	4229.5	10835.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 5:57:07 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.018**	**1.933**	**1.982**	**2.045**	**1.951**	**1.966**	**2.044**	**2.002**	**.2346**
Stddev	.004	.003	.004	.002	.008	.009	.008	.003	.0006
%RSD	.1906	.1505	.2265	.0745	.4073	.4811	.4128	.1306	.2742
#1	2.017	1.935	1.977	2.044	1.949	1.955	2.040	2.001	.2342
#2	2.014	1.930	1.986	2.047	1.960	1.974	2.054	2.005	.2353
#3	2.022	1.934	1.982	2.045	1.945	1.968	2.038	2.001	.2342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.970**	**2.137**	**2.087**	**1.841**	**2.060**	**2.099**	**2.073**	**39.53**	**38.56**
Stddev	.008	.002	.007	.004	.001	.003	.006	.03	.05
%RSD	.4227	.0815	.3249	.2460	.0673	.1220	.2798	.0641	.1185
#1	1.965	2.136	2.079	1.841	2.058	2.096	2.066	39.51	38.51
#2	1.979	2.139	2.093	1.846	2.061	2.100	2.074	39.52	38.59
#3	1.965	2.136	2.089	1.837	2.059	2.101	2.078	39.56	38.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**36.48**	**38.28**	**37.85**	**39.46**	**2.031**	**2.102**	**5.256**	**2.056**	**1.979**
Stddev	.07	.12	.09	.08	.007	.003	.009	.002	.004
%RSD	.1805	.3189	.2282	.2039	.3667	.1379	.1720	.1143	.1939
#1	36.40	38.36	37.84	39.42	2.023	2.098	5.246	2.053	1.976
#2	36.52	38.14	37.76	39.41	2.038	2.103	5.264	2.056	1.976
#3	36.50	38.34	37.94	39.56	2.032	2.103	5.259	2.058	1.983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 5:57:07 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.000**	**1.981**	**2.049**	**1.984**	**2.034**	**1.958**	**2.057**
Stddev	.008	.005	.008	.004	.007	.003	.003
%RSD	.3818	.2697	.3876	.1815	.3460	.1699	.1631
#1	1.995	1.975	2.042	1.979	2.026	1.956	2.053
#2	2.009	1.985	2.058	1.986	2.037	1.957	2.060
#3	1.997	1.984	2.048	1.985	2.039	1.962	2.057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97299.**	**4485.7**	**4137.8**	**10379.**
Stddev	360.	6.2	5.3	12.
%RSD	.36969	.13783	.12900	.11340
#1	97468.	4481.9	4143.4	10386.
#2	96886.	4492.8	4132.7	10365.
#3	97543.	4482.4	4137.3	10385.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 6:02:11 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**-.0001**	**.0000**	**-.0002**	**.0000**	**-.0028**	**.0000**	**.0001**
Stddev	.0002	.0001	.0001	.0002	.0001	.0001	.0000	.0003
%RSD	46.60	90.74	363.8	101.7	670.4	4.566	298.3	285.5
#1	.0005	-.0000	.0001	.0000	-.0000	-.0028	.0000	.0005
#2	.0003	-.0001	-.0001	-.0002	-.0000	-.0027	.0000	.0000
#3	.0007	-.0000	.0001	-.0003	.0001	-.0029	-.0000	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0022**	**.0003**	**-.0006**	**.0002**	**-.0008**	**-.0000**	**.0013**	**.0003**
Stddev	.0002	.0001	.0001	.0005	.0005	.0006	.0004	.0004
%RSD	6.933	56.36	17.11	226.9	57.50	1564.	31.29	152.9
#1	-.0024	.0004	-.0005	.0007	-.0007	-.0001	.0011	.0007
#2	-.0023	.0003	-.0006	.0003	-.0014	.0005	.0010	.0002
#3	-.0021	.0001	-.0006	-.0003	-.0005	-.0006	.0018	-.0001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0014							
Low Limit	-.0014							

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0096**	**-.0208**	**.0033**	**.0071**	**-.0036**	**.0640**	**-.0014**	**.0003**
Stddev	.0050	.0024	.0023	.0126	.0178	.0010	.0004	.0002
%RSD	52.42	11.53	67.91	177.0	500.0	1.562	26.26	87.06
#1	.0040	-.0224	.0026	.0192	-.0134	.0652	-.0012	.0005
#2	.0138	-.0220	.0059	-.0059	-.0143	.0634	-.0018	.0003
#3	.0109	-.0181	.0015	.0079	.0170	.0634	-.0012	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 6:02:11 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0012**	**-.0002**	**.0000**	**.0002**	**-.0001**	**.0001**	**.0002**	**-.0008**
Stddev	.0005	.0004	.0001	.0002	.0003	.0000	.0008	.0008
%RSD	43.20	151.0	984.0	63.44	198.2	39.29	514.8	98.05
#1	-.0011	-.0005	-.0001	.0004	.0001	.0002	-.0008	-.0005
#2	-.0017	-.0004	.0002	.0003	-.0005	.0001	.0007	-.0002
#3	-.0007	.0002	-.0000	.0001	-.0001	.0001	.0006	-.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0004**	**.0045**
Stddev	.0005	.0008
%RSD	111.9	17.05
#1	-.0003	.0043
#2	-.0010	.0053
#3	-.0000	.0038
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100550.**	**4504.4**	**4310.0**	**11130.**
Stddev	18.	15.7	5.4	9.
%RSD	.01789	.34802	.12530	.08161
#1	100530.	4513.6	4303.8	11120.
#2	100560.	4513.3	4313.3	11137.
#3	100560.	4486.3	4313.0	11133.

Zoom In Zoom Out

Sample Name: jc76471-13 Acquired: 10/25/2018 6:07:45 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4232**	**.0000**	**.0004**	**.0005**	**.0086**	**.0287**	**.5211**	**.0032**	**-.0015**
Stddev	.0006	.0001	.0002	.0002	.0001	.0002	.0008	.0001	.0002
%RSD	.1480	217.8	45.35	51.41	.8284	.7428	.1583	2.843	11.88
#1	.4235	.0000	.0007	.0003	.0086	.0289	.5219	.0033	-.0018
#2	.4236	-.0000	.0003	.0004	.0085	.0286	.5210	.0031	-.0015
#3	.4224	.0001	.0004	.0007	.0086	.0286	.5203	.0032	-.0014

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6662**	**.0561**	**.0360**	**.0008**	**.0057**	**.0054**	**.0034**	**1.333**	**152.9**
Stddev	.0006	.0001	.0007	.0010	.0006	.0016	.0006	.006	.6
%RSD	.0931	.1909	1.908	116.3	11.03	29.08	17.40	.4591	.4013
#1	.6669	.0560	.0363	.0009	.0065	.0071	.0034	1.340	153.6
#2	.6657	.0562	.0352	.0018	.0054	.0041	.0039	1.332	152.6
#3	.6660	.0561	.0365	-.0002	.0053	.0048	.0028	1.327	152.4

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**63.79**	**12.33**	**7.140**	**85.30**	**.1639**	**.0035**	**8.998**	**-.0012**	**1.077**
Stddev	.17	.02	.016	.20	.0002	.0000	.018	.0005	.002
%RSD	.2709	.1368	.2285	.2396	.0947	1.245	.2048	37.72	.2052
#1	63.98	12.34	7.159	85.53	.1640	.0035	9.018	-.0010	1.080
#2	63.74	12.33	7.135	85.25	.1639	.0035	8.982	-.0009	1.077
#3	63.64	12.31	7.128	85.13	.1637	.0034	8.995	-.0017	1.075

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0446**	**.0005**	**.0039**	**51.60**	**.0003**	**.0022**	**.7572**
Stddev	.0009	.0009	.0001	.09	.0003	.0007	.0008
%RSD	2.112	181.6	3.482	.1666	96.28	34.15	.1090
#1	.0449	-.0005	.0041	51.69	.0000	.0018	.7568
#2	.0453	.0011	.0038	51.53	.0005	.0030	.7566
#3	.0435	.0009	.0038	51.57	.0002	.0017	.7581

Zoom In Zoom Out

Sample Name: jc76471-13 Acquired: 10/25/2018 6:07:45 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94812.**	**4432.0**	**4039.1**	**10151.**
Stddev	61.	18.5	7.2	15.
%RSD	.06427	.41698	.17939	.14595
#1	94783.	4411.3	4031.8	10135.
#2	94882.	4437.8	4046.3	10164.
#3	94771.	4446.9	4039.0	10155.

Zoom In Zoom Out

Sample Name: jc76471-14 Acquired: 10/25/2018 6:13:06 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1264**	**-.0001**	**.0002**	**.0008**	**.0066**	**.0206**	**4.640**	**.0044**
Stddev	.0007	.0000	.0000	.0002	.0003	.0002	.014	.0003
%RSD	.5504	26.79	24.93	27.02	3.920	.8852	.3006	6.588
#1	.1271	-.0001	.0003	.0008	.0064	.0208	4.655	.0041
#2	.1258	-.0001	.0002	.0011	.0069	.0204	4.628	.0047
#3	.1262	-.0002	.0002	.0006	.0064	.0206	4.636	.0045

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**.0106**	**.4967**	**.0005**	F **-.0021**	**.0132**	**-.0010**	**.0007**
Stddev	.0003	.0002	.0055	.0015	.0002	.0014	.0014	.0003
%RSD	41.36	2.054	1.117	321.8	9.889	10.80	138.4	47.71
#1	-.0007	.0106	.4905	-.0012	-.0023	.0127	-.0007	.0011
#2	-.0012	.0103	.5012	.0012	-.0020	.0148	.0002	.0005
#3	-.0005	.0108	.4985	.0014	-.0020	.0121	-.0024	.0005

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.022**	**161.5**	**10.66**	**20.97**	**7.518**	**62.55**	**.1661**	**.0008**
Stddev	.031	1.0	.05	.19	.029	.44	.0019	.0003
%RSD	.7641	.5968	.4674	.9002	.3817	.6987	1.145	41.60
#1	4.055	162.6	10.72	21.19	7.532	63.05	.1683	.0011
#2	3.994	160.9	10.63	20.88	7.537	62.30	.1651	.0005
#3	4.017	161.0	10.63	20.84	7.485	62.29	.1649	.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.35**	**.0016**	**.7820**	**.1058**	**.0029**	**.0010**	**11.24**	**-.0020**
Stddev	.04	.0008	.0054	.0010	.0007	.0001	.02	.0009
%RSD	.1625	49.02	.6876	.9391	25.33	12.99	.1944	44.87
#1	23.40	.0010	.7882	.1063	.0035	.0009	11.26	-.0010
#2	23.33	.0014	.7787	.1063	.0021	.0011	11.22	-.0024
#3	23.33	.0025	.7792	.1046	.0031	.0008	11.24	-.0028

Zoom In Zoom Out

Sample Name: jc76471-14 Acquired: 10/25/2018 6:13:06 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0057**	**.6218**
Stddev	.0006	.0017
%RSD	10.62	.2718
#1	.0055	.6236
#2	.0053	.6215
#3	.0064	.6203

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96357.**	**4326.8**	**4056.7**	**10142.**
Stddev	262.	25.1	6.7	10.
%RSD	.27170	.58026	.16575	.10154
#1	96058.	4297.9	4049.7	10137.
#2	96471.	4339.3	4063.1	10154.
#3	96542.	4343.3	4057.3	10135.

Zoom In Zoom Out

Sample Name: jc76471-15 Acquired: 10/25/2018 6:18:34 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0377**	**.0000**	**.0003**	**.0010**	**.0061**	**.0090**	**.1892**	**.0054**	**-.0016**
Stddev	.0003	.0001	.0002	.0001	.0002	.0004	.0012	.0002	.0004
%RSD	.7085	125.0	54.71	5.794	3.616	4.083	.6256	3.364	23.91
#1	.0378	.0001	.0002	.0010	.0060	.0093	.1905	.0053	-.0021
#2	.0374	-.0000	.0002	.0009	.0059	.0090	.1882	.0056	-.0015
#3	.0379	.0001	.0005	.0009	.0063	.0086	.1889	.0053	-.0014

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0075**	**.0416**	**.0053**	**-.0012**	**.0044**	**-.0008**	**.0008**	**3.212**	**17.63**
Stddev	.0001	.0003	.0008	.0005	.0008	.0010	.0009	.014	.03
%RSD	.9116	.6765	14.77	39.68	18.50	124.9	115.5	.4429	.1800
#1	.0075	.0416	.0058	-.0007	.0044	-.0016	.0001	3.214	17.62
#2	.0075	.0414	.0056	-.0013	.0036	-.0013	.0004	3.197	17.60
#3	.0076	.0419	.0044	-.0016	.0052	.0004	.0018	3.225	17.66

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.586**	**2.750**	**1.320**	**45.05**	**.1360**	**.0394**	**9.381**	**.0017**	**.0745**
Stddev	.009	.026	.024	.09	.0005	.0002	.026	.0002	.0004
%RSD	.2472	.9443	1.820	.2003	.3815	.6198	.2770	14.48	.5155
#1	3.576	2.721	1.347	45.08	.1366	.0396	9.362	.0018	.0745
#2	3.591	2.758	1.312	44.96	.1357	.0392	9.370	.0019	.0742
#3	3.592	2.771	1.301	45.13	.1357	.0396	9.410	.0014	.0749

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0770**	**-.0007**	**.0020**	**5.160**	**-.0017**	**.0021**	**.5205**
Stddev	.0013	.0003	.0003	.018	.0009	.0002	.0008
%RSD	1.656	45.84	13.38	.3445	55.58	8.494	.1543
#1	.0785	-.0004	.0019	5.170	-.0020	.0022	.5213
#2	.0762	-.0010	.0023	5.139	-.0007	.0019	.5197
#3	.0764	-.0006	.0018	5.170	-.0025	.0021	.5203

Zoom In Zoom Out

Sample Name: jc76471-15 Acquired: 10/25/2018 6:18:34 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98746.**	**4435.0**	**4195.2**	**10691.**
Stddev	498.	13.1	12.2	24.
%RSD	.50383	.29472	.29018	.22154
#1	98174.	4439.7	4203.2	10700.
#2	99079.	4445.2	4201.2	10708.
#3	98986.	4420.3	4181.2	10664.

Zoom In Zoom Out

Sample Name: jc76471-16 Acquired: 10/25/2018 6:23:55 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6375**	**-.0003**	**.0001**	**-.0001**	**.0031**	**.0146**	**1.426**	**.0024**	**-.0013**
Stddev	.0018	.0000	.0000	.0002	.0002	.0001	.006	.0004	.0002
%RSD	.2873	7.615	31.96	113.7	6.369	.9823	.4200	18.53	13.21
#1	.6386	-.0003	.0001	-.0000	.0029	.0146	1.424	.0019	-.0012
#2	.6354	-.0002	.0001	-.0001	.0032	.0148	1.433	.0028	-.0012
#3	.6384	-.0002	.0001	-.0003	.0033	.0145	1.421	.0025	-.0015

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0079**	**.0073**	**.0240**	**-.0006**	**.0029**	**.0002**	**.0001**	**.7859**	F **255.8**
Stddev	.0002	.0001	.0006	.0007	.0010	.0019	.0020	.0186	.8
%RSD	2.837	1.683	2.699	127.7	34.30	1148.	3117.	2.364	.3132
#1	.0078	.0073	.0248	-.0011	.0033	.0010	.0024	.7950	254.9
#2	.0081	.0072	.0236	.0003	.0037	-.0020	-.0010	.7982	256.4
#3	.0077	.0074	.0237	-.0008	.0018	.0014	-.0012	.7645	256.1

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**31.14**	**23.00**	**12.26**	**126.7**	**.2929**	**.0009**	**13.69**	**-.0016**	**1.735**
Stddev	.08	.11	.03	.0	.0009	.0002	.04	.0003	.002
%RSD	.2445	.4912	.2366	.0390	.2904	19.76	.3216	16.73	.1083
#1	31.05	22.88	12.28	126.7	.2919	.0010	13.73	-.0018	1.735
#2	31.20	23.04	12.26	126.7	.2936	.0008	13.70	-.0017	1.733
#3	31.16	23.09	12.22	126.6	.2931	.0007	13.64	-.0013	1.736

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0278**	**.0014**	**.0021**	**75.71**	**-.0008**	**.0025**	**1.159**
Stddev	.0006	.0002	.0003	.11	.0008	.0007	.003
%RSD	2.274	18.08	13.74	.1457	99.49	27.84	.2221
#1	.0282	.0017	.0022	75.77	-.0016	.0018	1.157
#2	.0280	.0012	.0023	75.77	-.0000	.0032	1.159
#3	.0270	.0012	.0018	75.58	-.0008	.0024	1.162

Zoom In Zoom Out

Sample Name: jc76471-16 Acquired: 10/25/2018 6:23:55 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**93341.**	**4418.5**	**3899.0**	**9821.0**
Stddev	496.	17.7	9.9	19.8
%RSD	.53189	.40003	.25362	.20132
#1	93537.	4435.2	3892.4	9814.0
#2	92776.	4400.0	3894.2	9805.8
#3	93709.	4420.4	3910.3	9843.4

Zoom In Zoom Out

Sample Name: jc76471-17 Acquired: 10/25/2018 6:29:15 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0565**	**.0005**	**.0002**	**.0018**	**.0055**	**.0092**	**.2789**	**.0050**	**-.0016**
Stddev	.0002	.0000	.0001	.0002	.0001	.0002	.0009	.0003	.0002
%RSD	.3949	10.88	22.18	11.48	1.383	2.298	.3193	6.025	14.11
#1	.0568	.0005	.0002	.0018	.0055	.0091	.2792	.0048	-.0013
#2	.0564	.0004	.0003	.0020	.0056	.0094	.2779	.0048	-.0017
#3	.0564	.0004	.0002	.0016	.0055	.0091	.2796	.0053	-.0017

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0081**	**.0368**	**.0037**	**.0009**	**.0036**	**.0001**	**.0003**	**2.813**	**94.17**
Stddev	.0001	.0002	.0001	.0007	.0006	.0031	.0012	.016	.14
%RSD	1.222	.4590	2.555	82.52	16.60	2760.	377.2	.5707	.1473
#1	.0080	.0370	.0038	.0001	.0030	-.0034	-.0010	2.825	94.06
#2	.0082	.0367	.0037	.0015	.0042	.0020	.0009	2.819	94.33
#3	.0081	.0369	.0036	.0011	.0035	.0018	.0011	2.795	94.13

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.797**	**5.377**	**3.113**	**24.57**	**.0726**	**.0008**	**6.665**	**-.0007**	**.4836**
Stddev	.018	.067	.024	.02	.0004	.0002	.017	.0008	.0002
%RSD	.4866	1.241	.7710	.0976	.5941	27.51	.2478	120.8	.0460
#1	3.805	5.343	3.116	24.55	.0721	.0008	6.652	.0001	.4836
#2	3.811	5.454	3.135	24.60	.0729	.0011	6.660	-.0006	.4839
#3	3.776	5.335	3.088	24.57	.0729	.0006	6.684	-.0015	.4834

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1064**	**-.0006**	**.0016**	**74.88**	**-.0018**	**.0047**	**.6451**
Stddev	.0024	.0002	.0001	.12	.0004	.0008	.0012
%RSD	2.211	31.91	4.760	.1596	22.63	17.43	.1865
#1	.1057	-.0005	.0016	74.84	-.0022	.0037	.6439
#2	.1045	-.0005	.0015	74.78	-.0017	.0052	.6450
#3	.1090	-.0008	.0016	75.01	-.0014	.0051	.6463

Zoom In Zoom Out

Sample Name: jc76471-17 Acquired: 10/25/2018 6:29:15 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97566.**	**4437.7**	**4119.3**	**10491.**
Stddev	265.	13.0	4.7	13.
%RSD	.27119	.29294	.11443	.12634
#1	97489.	4452.7	4124.0	10496.
#2	97860.	4429.2	4119.4	10500.
#3	97347.	4431.3	4114.5	10476.

Zoom In Zoom Out

Sample Name: jc76471-18 Acquired: 10/25/2018 6:34:36 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5140**	**-.0001**	**.0023**	**.0004**	**.0046**	**.0101**	**.8309**	**.0033**
Stddev	.0094	.0001	.0002	.0002	.0002	.0000	.0010	.0002
%RSD	1.830	188.1	9.559	36.47	4.722	.4318	.1217	6.525
#1	.5165	.0001	.0026	.0006	.0048	.0101	.8304	.0036
#2	.5036	-.0001	.0021	.0003	.0048	.0102	.8321	.0033
#3	.5220	-.0001	.0023	.0005	.0044	.0101	.8303	.0031

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0014**	**.0077**	**.0789**	**.0212**	F **-.0031**	**.0128**	**.0024**	**-.0009**
Stddev	.0002	.0001	.0002	.0007	.0008	.0004	.0013	.0006
%RSD	12.31	1.122	.2362	3.298	27.11	3.003	52.48	65.93
#1	-.0012	.0077	.0791	.0218	-.0034	.0126	.0035	-.0016
#2	-.0016	.0078	.0788	.0214	-.0021	.0125	.0010	-.0005
#3	-.0015	.0077	.0788	.0204	-.0037	.0132	.0027	-.0006

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.830**	**174.6**	**11.89**	**24.86**	**5.413**	**138.0**	**.1186**	**-.0005**
Stddev	.022	2.7	.20	.37	.091	2.3	.0001	.0001
%RSD	1.184	1.564	1.706	1.493	1.685	1.637	.1257	19.89
#1	1.828	175.5	11.93	25.01	5.426	138.6	.1187	-.0004
#2	1.809	171.5	11.68	24.44	5.316	135.5	.1184	-.0005
#3	1.852	176.7	12.08	25.14	5.497	139.9	.1186	-.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.02**	**-.0006**	**.8382**	**.0561**	**.0003**	**.0014**	**16.35**	**-.0017**
Stddev	.03	.0005	.0144	.0008	.0006	.0001	.03	.0001
%RSD	.2472	76.64	1.716	1.365	242.0	8.323	.1758	4.135
#1	13.02	-.0001	.8406	.0553	.0006	.0015	16.35	-.0018
#2	13.05	-.0008	.8227	.0561	.0006	.0013	16.38	-.0017
#3	12.98	-.0011	.8512	.0569	-.0005	.0013	16.32	-.0016

Zoom In Zoom Out

Sample Name: jc76471-18 Acquired: 10/25/2018 6:34:36 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0041**	**.5887**
Stddev	.0002	.0004
%RSD	4.238	.0724
#1	.0039	.5890
#2	.0040	.5882
#3	.0042	.5888

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94415.**	**4448.9**	**3997.7**	**9978.1**
Stddev	158.	51.5	12.5	16.4
%RSD	.16762	1.1575	.31170	.16430
#1	94329.	4424.7	3996.6	9986.8
#2	94319.	4508.0	3985.8	9959.2
#3	94598.	4413.9	4010.7	9988.3

Zoom In Zoom Out

Sample Name: jc76471-21 Acquired: 10/25/2018 6:39:56 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0190**	**-.0000**	**.0000**	**-.0003**	**.0006**	**.0914**	**.0033**	**.0075**	**-.0017**
Stddev	.0002	.0001	.0001	.0003	.0001	.0005	.0000	.0001	.0002
%RSD	.8484	305.9	340.6	106.1	16.00	.5158	.6228	1.681	13.38
#1	.0191	.0001	-.0000	-.0004	.0007	.0910	.0033	.0074	-.0016
#2	.0188	-.0001	-.0000	-.0004	.0005	.0919	.0033	.0076	-.0020
#3	.0189	-.0001	.0001	.0001	.0007	.0913	.0033	.0074	-.0016

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0129**	**-.0000**	**-.0012**	**-.0001**	**-.0004**	**.0006**	**.0115**	**18.06**
Stddev	.0001	.0002	.0014	.0012	.0008	.0008	.0008	.0035	.09
%RSD	26.32	1.409	66200.	101.2	1091.	219.2	143.6	30.81	.4715
#1	.0003	.0129	-.0005	-.0003	.0006	-.0008	.0005	.0096	17.97
#2	.0002	.0131	-.0011	-.0007	.0001	-.0008	.0014	.0094	18.06
#3	.0002	.0127	.0016	-.0026	-.0009	.0005	-.0002	.0156	18.14

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0156**	**6.015**	**1.321**	**38.15**	**.0116**	**-.0018**	**4.340**	**-.0003**	**.0766**
Stddev	.0004	.063	.010	.07	.0002	.0003	.007	.0004	.0001
%RSD	2.584	1.049	.7421	.1905	1.778	14.63	.1575	132.8	.0737
#1	.0154	5.942	1.323	38.07	.0115	-.0018	4.346	-.0006	.0766
#2	.0154	6.057	1.329	38.15	.0118	-.0015	4.341	-.0004	.0766
#3	.0161	6.045	1.310	38.22	.0115	-.0020	4.332	.0001	.0765

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0007**	**-.0000**	**3.247**	**-.0013**	**-.0000**	**.9420**
Stddev	.0002	.0002	.0001	.010	.0011	.0002	.0014
%RSD	32.94	31.35	189.2	.3136	81.83	527.5	.1467
#1	.0010	-.0008	-.0001	3.239	-.0019	.0000	.9406
#2	.0006	-.0009	.0001	3.258	-.0001	-.0003	.9433
#3	.0006	-.0005	-.0001	3.244	-.0019	.0001	.9422

Zoom In Zoom Out

Sample Name: jc76471-21 Acquired: 10/25/2018 6:39:56 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97957.**	**4529.6**	**4177.3**	**10686.**
Stddev	653.	15.3	5.0	4.
%RSD	.66673	.33879	.11969	.03403
#1	98395.	4545.2	4171.9	10683.
#2	97207.	4529.1	4178.2	10684.
#3	98270.	4514.5	4181.8	10690.

Zoom In Zoom Out

Sample Name: mp9755-b1conf Acquired: 10/25/2018 6:45:22 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.892**	**1.889**	**1.865**	**1.909**	**1.851**	**1.866**	**1.931**	**1.878**
Stddev	.004	.006	.002	.004	.009	.014	.009	.003
%RSD	.2166	.3266	.1290	.2002	.4844	.7556	.4394	.1458
#1	1.893	1.893	1.866	1.912	1.859	1.881	1.940	1.881
#2	1.887	1.882	1.866	1.909	1.841	1.854	1.923	1.878
#3	1.895	1.892	1.862	1.905	1.852	1.864	1.931	1.875

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2192**	**1.859**	**1.984**	**1.940**	**1.777**	**1.914**	**1.910**	**1.951**
Stddev	.0015	.010	.006	.004	.004	.004	.002	.002
%RSD	.6947	.5549	.3129	.1836	.2371	.1895	.1029	.1132
#1	.2210	1.870	1.990	1.940	1.772	1.917	1.909	1.949
#2	.2182	1.849	1.983	1.943	1.778	1.914	1.912	1.954
#3	.2185	1.859	1.978	1.936	1.780	1.910	1.909	1.951

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.71**	**23.77**	**22.49**	**23.26**	**23.48**	**24.78**	**1.861**	**1.991**
Stddev	.10	.03	.06	.12	.08	.07	.004	.001
%RSD	.3846	.1338	.2875	.5270	.3467	.2699	.1886	.0592
#1	24.73	23.79	22.54	23.39	23.54	24.83	1.860	1.991
#2	24.61	23.74	22.42	23.15	23.39	24.70	1.865	1.993
#3	24.80	23.79	22.51	23.25	23.51	24.80	1.858	1.991

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0666**	**1.965**	**1.875**	**1.909**	**1.744**	**1.928**	F **-.1849**	**-.0104**
Stddev	.0011	.002	.004	.011	.002	.011	.0033	.0002
%RSD	1.706	.1192	.1962	.5723	.0905	.5798	1.780	1.917
#1	.0671	1.966	1.876	1.921	1.742	1.940	-.1812	-.0104
#2	.0653	1.967	1.871	1.900	1.745	1.918	-.1875	-.0103
#3	.0673	1.963	1.878	1.906	1.745	1.927	-.1858	-.0107

Zoom In Zoom Out

Sample Name: mp9755-b1conf Acquired: 10/25/2018 6:45:22 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0004**	**1.944**
Stddev	.0008	.003
%RSD	201.3	.1347
#1	-.0003	1.941
#2	.0004	1.946
#3	-.0012	1.946

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98284.**	**4382.8**	**4177.2**	**10568.**
Stddev	507.	9.9	3.4	12.
%RSD	.51558	.22636	.08199	.11537
#1	97751.	4378.3	4176.2	10562.
#2	98760.	4394.1	4174.4	10560.
#3	98341.	4375.9	4181.0	10582.

Zoom In Zoom Out

Sample Name: mp9755-mb1conf Acquired: 10/25/2018 6:50:26 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**-.0001**	**.0000**	**-.0002**	**.0004**	**-.0016**	**.0002**	**.0005**	**-.0019**
Stddev	.0002	.0001	.0001	.0001	.0001	.0001	.0000	.0001	.0002
%RSD	43.14	72.97	2175.	64.14	23.30	7.482	15.09	27.00	8.038
#1	.0004	-.0000	.0000	-.0003	.0005	-.0015	.0002	.0006	-.0017
#2	.0002	-.0000	.0001	-.0001	.0003	-.0017	.0003	.0005	-.0020
#3	.0005	-.0001	-.0001	-.0002	.0003	-.0014	.0002	.0003	-.0019

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0082**	**.0004**	**.0001**	**.0006**	**.0000**	**.0008**	**.0192**	**.0420**
Stddev	.0002	.0002	.0007	.0014	.0005	.0010	.0009	.0132	.0036
%RSD	106.7	1.944	195.0	1572.	89.66	2809.	115.1	68.87	8.635
#1	.0000	.0084	-.0004	-.0011	.0012	-.0010	.0017	.0330	.0393
#2	.0004	.0082	.0007	.0017	.0002	.0011	-.0000	.0066	.0461
#3	.0002	.0081	.0008	-.0003	.0005	.0000	.0006	.0179	.0406

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0087**	**-.0038**	**-.0179**	**.1044**	**-.0010**	**.0001**	**.0333**	**.0154**	**.0004**
Stddev	.0041	.0257	.0256	.0009	.0004	.0002	.0003	.0005	.0002
%RSD	46.64	667.5	142.8	.8691	40.74	353.6	.7563	3.032	57.76
#1	.0109	-.0123	-.0474	.1040	-.0006	.0003	.0333	.0153	.0002
#2	.0040	-.0243	-.0028	.1055	-.0009	.0001	.0336	.0149	.0004
#3	.0111	.0250	-.0035	.1038	-.0014	-.0002	.0331	.0159	.0006

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0024**	**.0027**	**.0064**	**-.0006**	**-.0011**	**.0224**
Stddev	.0001	.0005	.0001	.0027	.0010	.0004	.0006
%RSD	7.412	21.29	3.493	42.56	181.8	33.64	2.479
#1	.0011	.0026	.0028	.0047	-.0018	-.0008	.0226
#2	.0010	.0018	.0027	.0095	.0002	-.0015	.0218
#3	.0011	.0028	.0026	.0049	-.0002	-.0011	.0229

Zoom In Zoom Out

Sample Name: mp9755-mb1conf Acquired: 10/25/2018 6:50:26 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101410.**	**4477.5**	**4308.9**	**11162.**
Stddev	384.	24.9	10.4	13.
%RSD	.37899	.55509	.24146	.11626
#1	101530.	4506.1	4313.8	11162.
#2	101720.	4460.7	4297.0	11149.
#3	100980.	4465.8	4316.0	11175.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 6:56:00 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.013**	**1.986**	**1.988**	**2.037**	**1.981**	**1.980**	**2.055**	**2.012**	**.2387**
Stddev	.004	.004	.001	.002	.012	.021	.016	.002	.0016
%RSD	.2150	.2233	.0472	.1114	.6142	1.088	.7681	.0871	.6874
#1	2.009	1.982	1.989	2.039	1.970	1.958	2.037	2.015	.2369
#2	2.017	1.991	1.988	2.035	1.978	1.981	2.060	2.011	.2392
#3	2.012	1.986	1.987	2.039	1.994	2.001	2.068	2.012	.2401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.991**	**2.107**	**2.059**	**1.904**	**2.055**	**2.075**	**2.056**	**40.19**	**38.80**
Stddev	.015	.006	.005	.003	.002	.003	.003	.05	.07
%RSD	.7411	.2806	.2495	.1660	.0956	.1651	.1448	.1189	.1710
#1	1.977	2.114	2.065	1.902	2.057	2.077	2.057	40.17	38.73
#2	1.988	2.106	2.054	1.903	2.056	2.071	2.052	40.25	38.81
#3	2.007	2.102	2.060	1.908	2.053	2.076	2.058	40.16	38.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**36.44**	**38.50**	**38.58**	**40.17**	**2.037**	**2.082**	**5.241**	**2.048**	**1.986**
Stddev	.08	.24	.13	.09	.003	.003	.008	.003	.002
%RSD	.2223	.6127	.3281	.2252	.1286	.1411	.1582	.1379	.1233
#1	36.35	38.42	38.44	40.08	2.035	2.086	5.250	2.049	1.983
#2	36.50	38.32	38.67	40.26	2.036	2.081	5.235	2.051	1.988
#3	36.48	38.77	38.64	40.17	2.040	2.080	5.238	2.045	1.986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 6:56:00 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.014**	**1.984**	**2.053**	**1.979**	**2.036**	**2.022**	**2.051**
Stddev	.017	.002	.017	.003	.003	.007	.003
%RSD	.8214	.1075	.8281	.1726	.1671	.3552	.1420
#1	1.999	1.986	2.037	1.976	2.039	2.017	2.053
#2	2.012	1.982	2.052	1.977	2.035	2.031	2.052
#3	2.031	1.983	2.071	1.983	2.033	2.020	2.048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96840.**	**4332.6**	**4174.6**	**10395.**
Stddev	691.	14.9	4.1	10.
%RSD	.71319	.34437	.09722	.09417
#1	97542.	4340.8	4170.1	10391.
#2	96818.	4341.7	4178.0	10406.
#3	96161.	4315.4	4175.7	10388.

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 7:01:11 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0000**	**.0000**	**-.0001**	**.0002**	**-.0017**	**-.0000**	**.0001**
Stddev	.0002	.0001	.0001	.0001	.0002	.0001	.0000	.0003
%RSD	44.78	985.0	593.6	84.27	96.93	2.978	371.8	220.0
#1	.0005	-.0001	.0001	-.0000	.0004	-.0017	.0000	.0005
#2	.0002	.0001	-.0001	-.0001	.0001	-.0017	-.0000	-.0001
#3	.0004	.0000	.0000	-.0002	.0001	-.0018	-.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0018**	**-.0001**	**-.0006**	**.0006**	**-.0011**	**.0004**	**.0009**	**-.0000**
Stddev	.0002	.0001	.0001	.0004	.0005	.0008	.0003	.0006
%RSD	9.734	155.6	10.86	59.36	39.76	171.2	33.95	1564.
#1	-.0017	-.0000	-.0006	.0004	-.0016	.0012	.0006	-.0007
#2	-.0016	-.0002	-.0005	.0010	-.0012	-.0003	.0012	.0005
#3	-.0019	-.0000	-.0006	.0004	-.0007	.0004	.0010	.0002
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0014							
Low Limit	-.0014							

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**-.0111**	**.0016**	**-.0039**	**.0127**	**.0573**	**-.0006**	**.0006**
Stddev	.0092	.0040	.0054	.0259	.0230	.0018	.0003	.0002
%RSD	1418.	36.05	348.9	664.3	180.6	3.094	48.29	30.46
#1	-.0097	-.0133	.0077	.0152	.0269	.0579	-.0003	.0009
#2	.0040	-.0065	-.0006	.0065	.0250	.0588	-.0008	.0005
#3	.0077	-.0134	-.0025	-.0333	-.0138	.0553	-.0008	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 7:01:11 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0022**	**.0000**	**-.0002**	**.0001**	**.0011**	**.0002**	**-.0002**	**-.0003**
Stddev	.0006	.0006	.0001	.0000	.0007	.0000	.0008	.0012
%RSD	29.10	3073.	81.23	44.20	65.82	7.117	527.7	392.3
#1	-.0020	.0001	-.0000	.0000	.0019	.0002	.0006	-.0005
#2	-.0017	-.0006	-.0002	.0000	.0008	.0002	-.0001	-.0014
#3	-.0029	.0006	-.0003	.0001	.0006	.0002	-.0010	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0007**	**.0042**
Stddev	.0007	.0002
%RSD	95.46	4.418
#1	-.0014	.0044
#2	-.0006	.0040
#3	-.0001	.0041
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100450.**	**4473.4**	**4315.1**	**11105.**
Stddev	122.	19.7	10.2	19.
%RSD	.12116	.44077	.23605	.17092
#1	100330.	4481.1	4325.5	11125.
#2	100440.	4488.0	4305.1	11087.
#3	100580.	4451.0	4314.8	11103.

Zoom In Zoom Out

Sample Name: jc76178-1 Acquired: 10/25/2018 7:06:47 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045**	**-.0001**	**-.0009**	**-.0012**	**.0004**	**-.0033**	**.0047**	**-.0024**	**-.0061**
Stddev	.0002	.0002	.0008	.0004	.0004	.0006	.0002	.0014	.0012
%RSD	4.847	253.6	91.95	30.64	85.00	18.52	4.257	59.90	20.12
#1	.0042	-.0002	-.0012	-.0016	.0005	-.0026	.0047	-.0014	-.0063
#2	.0046	-.0003	.0000	-.0012	.0000	-.0038	.0050	-.0040	-.0073
#3	.0045	.0002	-.0016	-.0008	.0007	-.0034	.0046	-.0017	-.0048

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037**	**.0076**	**.0044**	**.0002**	**.0080**	**.0079**	**.0018**	**554.0**	**1.878**
Stddev	.0012	.0004	.0054	.0062	.0036	.0106	.0026	.6	.021
%RSD	31.88	5.680	122.2	2874.	44.55	135.3	148.5	.1154	1.098
#1	.0038	.0081	.0096	-.0061	.0081	.0051	.0046	554.1	1.858
#2	.0049	.0075	.0047	.0006	.0044	-.0011	.0013	553.3	1.877
#3	.0025	.0073	-.0011	.0061	.0116	.0196	-.0006	554.6	1.899

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1659**	**.1986**	**.0654**	**2.574**	**.0115**	**-.0072**	**.1798**	**.0119**	**.0064**
Stddev	.0114	.1449	.1140	.010	.0015	.0006	.0045	.0025	.0006
%RSD	6.846	72.98	174.3	.3722	13.39	8.859	2.520	20.89	8.703
#1	.1677	.1988	.1455	2.584	.0115	-.0071	.1849	.0136	.0063
#2	.1762	.0536	.1158	2.572	.0130	-.0078	.1782	.0091	.0070
#3	.1537	.3434	-.0651	2.566	.0099	-.0066	.1763	.0131	.0059

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.0133**	**.0142**	**7.304**	**-.0583**	**.0036**	**.0395**
Stddev	.15	.0011	.0007	.021	.0032	.0009	.0067
%RSD	.5943	8.370	4.788	.2828	5.437	26.16	17.07
#1	25.16	.0122	.0135	7.298	-.0581	.0036	.0453
#2	25.12	.0133	.0143	7.288	-.0616	.0026	.0410
#3	24.89	.0144	.0148	7.327	-.0553	.0045	.0321

Zoom In Zoom Out

Sample Name: jc76178-1 Acquired: 10/25/2018 7:06:47 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99274.**	**4341.9**	**4296.8**	**10804.**
Stddev	641.	14.6	6.2	13.
%RSD	.64539	.33556	.14323	.12390
#1	98876.	4355.6	4297.8	10795.
#2	98933.	4343.6	4290.2	10797.
#3	100010.	4326.6	4302.4	10819.

Zoom In Zoom Out

Sample Name: mp9853-mb1 Acquired: 10/25/2018 7:12:17 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0000**	**.0001**	**-.0002**	**.0018**	**-.0005**	**.0003**	**.0002**	**-.0016**
Stddev	.0002	.0000	.0001	.0001	.0001	.0002	.0000	.0002	.0001
%RSD	47.51	67.54	99.52	38.61	7.764	33.18	1.096	101.5	6.800
#1	.0003	-.0000	-.0000	-.0002	.0019	-.0005	.0003	.0003	-.0015
#2	.0005	-.0000	.0001	-.0002	.0017	-.0004	.0003	.0005	-.0017
#3	.0002	-.0001	.0002	-.0003	.0017	-.0007	.0003	-.0000	-.0017

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0024**	**.0001**	**-.0011**	**-.0005**	**.0012**	**.0007**	**.0186**	**.0234**
Stddev	.0002	.0001	.0004	.0003	.0009	.0018	.0007	.0115	.0026
%RSD	249.0	4.042	342.5	30.70	185.2	142.6	101.0	61.68	11.06
#1	.0002	.0023	-.0001	-.0011	-.0015	.0032	-.0001	.0067	.0250
#2	-.0002	.0025	-.0001	-.0008	.0003	-.0003	.0008	.0296	.0204
#3	.0002	.0024	.0006	-.0015	-.0003	.0008	.0013	.0196	.0247

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0211**	**-.0137**	**.0248**	**.1309**	**-.0022**	**-.0011**	**.0063**	**.0157**	**.0001**
Stddev	.0042	.0047	.0306	.0070	.0002	.0002	.0006	.0006	.0001
%RSD	20.15	34.28	123.3	5.341	8.511	13.27	9.086	3.581	72.92
#1	.0193	-.0172	.0302	.1232	-.0023	-.0010	.0069	.0157	.0002
#2	.0259	-.0157	.0524	.1368	-.0023	-.0011	.0058	.0162	.0001
#3	.0180	-.0084	-.0081	.1328	-.0019	-.0013	.0061	.0151	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0006**	**.0008**	**.0086**	**-.0013**	**-.0010**	**.0222**
Stddev	.0002	.0003	.0001	.0004	.0006	.0009	.0006
%RSD	67.94	49.53	11.33	5.022	44.40	87.32	2.694
#1	.0001	-.0006	.0008	.0091	-.0019	-.0016	.0216
#2	.0005	-.0009	.0009	.0087	-.0014	.0000	.0228
#3	.0004	-.0003	.0007	.0082	-.0007	-.0015	.0221

Zoom In Zoom Out

Sample Name: mp9853-mb1 Acquired: 10/25/2018 7:12:17 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99624.**	**4403.9**	**4301.0**	**11068.**
Stddev	450.	4.3	3.6	20.
%RSD	.45180	.09852	.08463	.18314
#1	99446.	4404.8	4301.6	11046.
#2	99290.	4399.2	4297.1	11072.
#3	100140.	4407.7	4304.3	11085.

Zoom In Zoom Out

Sample Name: mp9853-b1 Acquired: 10/25/2018 7:17:52 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.849**	**1.823**	**1.805**	**1.862**	**1.826**	**1.820**	**1.906**	**1.837**
Stddev	.004	.006	.003	.001	.004	.002	.004	.002
%RSD	.2122	.3194	.1852	.0675	.2129	.1266	.2072	.1111
#1	1.851	1.830	1.803	1.863	1.829	1.822	1.908	1.839
#2	1.851	1.822	1.804	1.861	1.821	1.817	1.901	1.835
#3	1.844	1.818	1.809	1.862	1.827	1.820	1.908	1.837

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2212**	**1.826**	**1.942**	**1.867**	**1.735**	**1.873**	**1.835**	**1.869**
Stddev	.0006	.003	.004	.002	.003	.004	.004	.002
%RSD	.2707	.1703	.1931	.1250	.1540	.1844	.1991	.1116
#1	.2219	1.829	1.945	1.870	1.736	1.876	1.836	1.868
#2	.2211	1.823	1.938	1.866	1.737	1.873	1.839	1.872
#3	.2207	1.828	1.943	1.867	1.732	1.869	1.832	1.869

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.91**	**23.22**	**21.87**	**22.77**	**22.96**	**24.02**	**1.803**	**1.934**
Stddev	.07	.11	.09	.18	.07	.09	.002	.002
%RSD	.3134	.4804	.4289	.7774	.3131	.3608	.0951	.0852
#1	23.98	23.35	21.98	22.95	23.01	24.11	1.803	1.932
#2	23.92	23.15	21.85	22.76	23.00	24.00	1.804	1.936
#3	23.83	23.16	21.79	22.59	22.88	23.94	1.801	1.933

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0198**	**1.917**	**1.829**	**1.875**	**1.619**	**1.899**	F **-.1778**	**-.0093**
Stddev	.0006	.002	.005	.004	.001	.003	.0012	.0003
%RSD	3.139	.0767	.2604	.2126	.0631	.1771	.6480	3.706
#1	-.0202	1.916	1.834	1.877	1.618	1.901	-.1775	-.0092
#2	-.0201	1.916	1.829	1.870	1.618	1.895	-.1791	-.0090
#3	-.0190	1.919	1.824	1.877	1.620	1.901	-.1768	-.0096

Zoom In Zoom Out

Sample Name: mp9853-b1 Acquired: 10/25/2018 7:17:52 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0009**	**1.875**
Stddev	.0007	.009
%RSD	72.09	.4957
#1	-.0016	1.867
#2	-.0007	1.873
#3	-.0004	1.885

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97111.**	**4374.9**	**4215.8**	**10600.**
Stddev	169.	23.8	1.8	14.
%RSD	.17375	.54460	.04280	.13219
#1	96926.	4347.5	4213.7	10584.
#2	97256.	4386.3	4216.6	10607.
#3	97150.	4390.8	4217.1	10608.

Zoom In
Zoom Out

Sample Name: mp9853-s1 Acquired: 10/25/2018 7:22:58 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.246**	**1.935**	**1.900**	**2.016**	**1.949**	**1.982**	**4.237**	**2.026**	**.2326**
Stddev	.003	.003	.002	.005	.012	.013	.029	.002	.0009
%RSD	.1526	.1301	.1134	.2402	.6267	.6550	.6833	.0907	.3857
#1	2.248	1.933	1.902	2.011	1.939	1.971	4.222	2.025	.2323
#2	2.248	1.938	1.898	2.016	1.945	1.979	4.220	2.026	.2319
#3	2.242	1.934	1.899	2.020	1.963	1.996	4.271	2.028	.2336

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.002**	**2.158**	**1.965**	**1.835**	**2.020**	**1.913**	**1.559**	**93.60**	**142.2**
Stddev	.012	.011	.004	.004	.007	.006	.005	.03	.1
%RSD	.5810	.5154	.1900	.2208	.3350	.3283	.3342	.0344	.0924
#1	1.993	2.147	1.970	1.832	2.015	1.920	1.565	93.57	142.2
#2	1.998	2.157	1.962	1.840	2.017	1.912	1.556	93.59	142.1
#3	2.016	2.169	1.964	1.835	2.028	1.908	1.557	93.63	142.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**103.9**	**54.13**	**45.13**	**28.00**	**2.025**	**1.972**	**5.720**	**1.917**	**2.098**
Stddev	.1	.03	.04	.03	.004	.003	.011	.002	.000
%RSD	.0522	.0505	.0981	.1031	.1738	.1700	.1869	.1126	.0083
#1	103.9	54.10	45.10	27.97	2.029	1.975	5.732	1.916	2.098
#2	103.9	54.15	45.18	28.03	2.022	1.969	5.712	1.916	2.099
#3	104.0	54.13	45.11	27.99	2.025	1.973	5.717	1.920	2.098

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.740**	**1.508**	**2.037**	**.1112**	**-.0129**	**.1067**	**5.403**
Stddev	.020	.001	.013	.0012	.0002	.0005	.007
%RSD	.5393	.0672	.6592	1.074	1.765	.5057	.1225
#1	3.720	1.508	2.025	.1102	-.0127	.1061	5.410
#2	3.740	1.507	2.034	.1110	-.0131	.1071	5.397
#3	3.761	1.509	2.051	.1125	-.0129	.1070	5.403

Zoom In
Zoom Out

Sample Name: mp9853-s1 Acquired: 10/25/2018 7:22:58 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97561.**	**4346.6**	**4190.6**	**10083.**
Stddev	734.	10.7	9.5	8.
%RSD	.75272	.24569	.22560	.07461
#1	98070.	4358.9	4180.4	10075.
#2	97893.	4341.1	4199.1	10090.
#3	96719.	4339.7	4192.4	10083.

Zoom In
Zoom Out

Sample Name: mp9853-s2 Acquired: 10/25/2018 7:28:12 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.165**	**1.803**	**1.777**	**1.887**	**1.832**	**1.875**	**4.346**	**1.905**	**.2174**
Stddev	.004	.003	.002	.002	.002	.005	.038	.003	.0008
%RSD	.1675	.1364	.1334	.0935	.1170	.2682	.8762	.1542	.3663
#1	2.163	1.804	1.778	1.889	1.833	1.873	4.360	1.907	.2175
#2	2.169	1.805	1.779	1.886	1.829	1.872	4.303	1.907	.2166
#3	2.163	1.800	1.774	1.885	1.833	1.881	4.376	1.902	.2182

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.891**	**2.065**	**1.842**	**1.705**	**1.898**	**1.790**	**1.406**	**98.60**	**146.2**
Stddev	.003	.003	.004	.003	.002	.004	.001	.15	.1
%RSD	.1354	.1488	.1996	.1500	.1174	.2330	.1000	.1496	.0721
#1	1.892	2.066	1.845	1.708	1.896	1.794	1.404	98.64	146.2
#2	1.888	2.067	1.841	1.703	1.900	1.792	1.407	98.72	146.3
#3	1.893	2.061	1.838	1.705	1.896	1.786	1.406	98.44	146.1

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**110.7**	**55.03**	**45.11**	**26.36**	**1.905**	**1.839**	**5.460**	**1.783**	**1.985**
Stddev	.1	.09	.07	.02	.001	.004	.010	.000	.003
%RSD	.0966	.1721	.1647	.0667	.0435	.2144	.1840	.0206	.1622
#1	110.7	55.01	45.08	26.34	1.905	1.841	5.471	1.783	1.984
#2	110.8	55.14	45.20	26.37	1.905	1.841	5.452	1.783	1.988
#3	110.6	54.95	45.05	26.35	1.904	1.834	5.456	1.783	1.982

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.813**	**1.355**	**1.918**	**.2159**	**-.0129**	**.1188**	**5.267**
Stddev	.001	.004	.005	.0015	.0002	.0006	.005
%RSD	.0249	.3173	.2598	.6825	1.637	.5111	.0879
#1	3.812	1.356	1.916	.2149	-.0131	.1194	5.267
#2	3.814	1.358	1.915	.2176	-.0128	.1190	5.271
#3	3.813	1.350	1.924	.2153	-.0127	.1182	5.262

Zoom In
Zoom Out

Sample Name: mp9853-s2 Acquired: 10/25/2018 7:28:12 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97814.**	**4357.8**	**4207.5**	**10128.**
Stddev	262.	8.7	6.6	15.
%RSD	.26816	.20078	.15677	.15266
#1	97845.	4348.6	4201.9	10113.
#2	98059.	4358.8	4205.8	10127.
#3	97537.	4366.0	4214.7	10143.

Zoom In Zoom Out

Sample Name: jc76479-1 Acquired: 10/25/2018 7:33:27 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2413**	**.0022**	**.0004**	**.0330**	**.0692**	**.0549**	**2.399**	**.0744**	**-.0024**
Stddev	.0007	.0001	.0001	.0003	.0002	.0003	.004	.0004	.0001
%RSD	.2909	3.879	25.15	.8468	.3300	.5949	.1639	.5107	4.402
#1	.2411	.0022	.0003	.0327	.0694	.0553	2.395	.0741	-.0024
#2	.2421	.0022	.0005	.0332	.0690	.0549	2.403	.0748	-.0024
#3	.2407	.0021	.0004	.0331	.0691	.0546	2.399	.0743	-.0026

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1068**	**.1917**	**.0118**	**.0005**	**.0430**	**-.0010**	**.0006**	**40.03**	**115.4**
Stddev	.0003	.0003	.0010	.0008	.0013	.0009	.0006	.07	.4
%RSD	.2896	.1777	8.534	180.3	3.035	83.69	98.00	.1767	.3250
#1	.1069	.1913	.0106	.0007	.0442	-.0020	.0005	40.08	115.3
#2	.1071	.1919	.0121	.0012	.0416	-.0003	.0001	40.07	115.7
#3	.1065	.1919	.0126	-.0005	.0432	-.0008	.0012	39.95	115.0

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**77.78**	**25.01**	**9.738**	**1.806**	**.0675**	**.0022**	**4.208**	**.0148**	**.1638**
Stddev	.18	.22	.041	.013	.0008	.0003	.015	.0002	.0016
%RSD	.2273	.8758	.4187	.7370	1.197	13.30	.3537	1.588	.9636
#1	77.80	24.86	9.728	1.807	.0666	.0025	4.203	.0150	.1657
#2	77.94	25.26	9.783	1.819	.0677	.0022	4.196	.0147	.1630
#3	77.59	24.90	9.703	1.792	.0681	.0019	4.225	.0145	.1629

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.473**	**.0103**	**.0439**	**.3040**	**-.0061**	**.0911**	**3.521**
Stddev	.002	.0008	.0005	.0018	.0005	.0008	.009
%RSD	.1642	8.124	1.187	.5824	7.568	.8823	.2415
#1	1.475	.0107	.0443	.3022	-.0063	.0919	3.515
#2	1.472	.0094	.0441	.3040	-.0055	.0903	3.518
#3	1.471	.0109	.0433	.3058	-.0064	.0912	3.531

Zoom In Zoom Out

Sample Name: jc76479-1 Acquired: 10/25/2018 7:33:27 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99210.**	**4424.4**	**4272.9**	**10385.**
Stddev	206.	16.2	7.3	6.
%RSD	.20789	.36666	.17091	.05989
#1	98996.	4424.2	4273.1	10384.
#2	99226.	4408.3	4280.1	10392.
#3	99408.	4440.8	4265.5	10379.

Zoom In Zoom Out

Sample Name: mp9853-sd1 Acquired: 10/25/2018 7:38:54 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2510**	**.0025**	**.0004**	**.0320**	**.0740**	**.0510**	**2.582**	**.0737**	**-.0085**
Stddev	.0016	.0003	.0010	.0002	.0001	.0008	.006	.0009	.0004
%RSD	.6212	13.37	260.9	.6669	.1657	1.662	.2374	1.288	4.395
#1	.2513	.0023	-.0008	.0322	.0741	.0501	2.588	.0726	-.0081
#2	.2525	.0029	.0010	.0318	.0740	.0517	2.581	.0744	-.0089
#3	.2494	.0024	.0010	.0319	.0738	.0511	2.576	.0740	-.0085

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1127**	**.2087**	**.0131**	**-.0038**	**.0472**	**-.0002**	**.0038**	**41.54**	**119.9**
Stddev	.0005	.0022	.0010	.0021	.0042	.0047	.0037	.03	.1
%RSD	.4104	1.051	7.425	53.68	8.868	3016.	97.73	.0810	.1175
#1	.1123	.2106	.0142	-.0030	.0511	-.0051	.0044	41.58	119.9
#2	.1126	.2091	.0123	-.0023	.0476	.0044	-.0002	41.51	119.7
#3	.1132	.2063	.0129	-.0062	.0428	.0003	.0070	41.54	120.0

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**81.54**	**25.74**	**9.911**	**1.996**	**.0598**	**-.0033**	**4.328**	**.0144**	**.1710**
Stddev	.07	.06	.089	.029	.0054	.0002	.023	.0010	.0007
%RSD	.0918	.2476	.9032	1.473	9.033	5.530	.5363	6.995	.3932
#1	81.47	25.79	9.964	1.988	.0589	-.0032	4.330	.0134	.1707
#2	81.62	25.75	9.961	2.029	.0656	-.0035	4.304	.0145	.1717
#3	81.53	25.67	9.808	1.971	.0549	-.0033	4.350	.0154	.1705

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.538**	**.0283**	**.0440**	**.3098**	**-.0092**	**.0860**	**3.701**
Stddev	.002	.0043	.0006	.0168	.0041	.0034	.019
%RSD	.1021	15.18	1.341	5.433	44.44	3.963	.5153
#1	1.537	.0310	.0434	.3291	-.0115	.0878	3.699
#2	1.536	.0305	.0442	.2979	-.0045	.0820	3.721
#3	1.539	.0233	.0445	.3024	-.0116	.0881	3.683

Zoom In Zoom Out

Sample Name: mp9853-sd1 Acquired: 10/25/2018 7:38:54 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100260.**	**4510.0**	**4336.2**	**10953.**
Stddev	209.	5.8	1.4	6.
%RSD	.20866	.12966	.03198	.05346
#1	100050.	4515.1	4337.8	10957.
#2	100270.	4511.3	4335.3	10946.
#3	100470.	4503.6	4335.6	10955.

Zoom In Zoom Out

Sample Name: jc76508-1 Acquired: 10/25/2018 7:44:15 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4371**	**.0059**	**.0276**	**1.220**	**1.032**	**.6270**	**.9341**	**4.033**
Stddev	.0006	.0000	.0001	.002	.003	.0026	.0028	.005
%RSD	.1396	.2982	.3612	.1242	.2706	.4211	.2953	.1275
#1	.4366	.0059	.0276	1.222	1.035	.6299	.9373	4.039
#2	.4378	.0059	.0277	1.219	1.030	.6264	.9320	4.028
#3	.4370	.0059	.0275	1.220	1.031	.6248	.9331	4.032

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0216**	**1.315**	**.0277**	F **-.0076**	**.0939**	**.0068**	**.0261**
Stddev	.0001	.0001	.003	.0006	.0021	.0008	.0029	.0005
%RSD	22.10	.2935	.1898	2.167	27.99	.9021	43.47	2.076
#1	.0005	.0216	1.317	.0283	-.0100	.0937	.0077	.0255
#2	.0007	.0215	1.313	.0275	-.0067	.0931	.0091	.0263
#3	.0006	.0217	1.313	.0272	-.0061	.0948	.0035	.0266

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**109.9**	**12.78**	**50.06**	**1.948**	**1.286**	**9.211**	**.2223**	**.2011**
Stddev	.0	.03	.02	.021	.020	.017	.0019	.0003
%RSD	.0383	.2048	.0480	1.055	1.556	.1879	.8668	.1255
#1	109.9	12.75	50.08	1.969	1.287	9.212	.2216	.2009
#2	109.9	12.78	50.06	1.928	1.306	9.228	.2207	.2010
#3	109.8	12.81	50.03	1.947	1.266	9.194	.2244	.2014

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.432**	**.0333**	**.4006**	**3.462**	**.3554**	**.6143**	**8.865**	**-.0161**
Stddev	.029	.0006	.0005	.009	.0014	.0001	.016	.0008
%RSD	.8509	1.890	.1258	.2620	.3873	.0206	.1795	5.022
#1	3.445	.0328	.4009	3.472	.3543	.6141	8.883	-.0169
#2	3.452	.0340	.4009	3.456	.3550	.6142	8.862	-.0153
#3	3.398	.0331	.4000	3.457	.3570	.6144	8.851	-.0163

Zoom In Zoom Out

Sample Name: jc76508-1 Acquired: 10/25/2018 7:44:15 Type: Unk
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0904**	**2.036**
Stddev	.0006	.003
%RSD	.6108	.1338
#1	.0910	2.038
#2	.0902	2.033
#3	.0899	2.038

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102510.**	**4479.8**	**4456.0**	**10701.**
Stddev	365.	6.2	8.7	8.
%RSD	.35599	.13800	.19599	.07455
#1	102080.	4486.7	4446.9	10692.
#2	102690.	4474.8	4456.7	10708.
#3	102740.	4477.8	4464.3	10702.

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 7:49:28 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.008**	**1.955**	**1.982**	**2.036**	**1.978**	**1.975**	**2.054**	**2.009**	**.2377**
Stddev	.004	.002	.008	.008	.003	.005	.006	.007	.0006
%RSD	.2204	.1035	.3954	.3837	.1712	.2478	.2931	.3456	.2734
#1	2.007	1.955	1.981	2.036	1.982	1.980	2.057	2.009	.2382
#2	2.003	1.952	1.975	2.028	1.975	1.972	2.047	2.002	.2369
#3	2.012	1.956	1.991	2.044	1.976	1.971	2.058	2.016	.2379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.985**	**2.108**	**2.054**	**1.899**	**2.054**	**2.066**	**2.046**	**39.86**	**38.56**
Stddev	.005	.009	.010	.008	.005	.006	.007	.07	.03
%RSD	.2319	.4365	.4992	.4399	.2627	.3039	.3579	.1810	.0893
#1	1.991	2.109	2.051	1.902	2.051	2.066	2.045	39.83	38.59
#2	1.982	2.098	2.046	1.889	2.050	2.060	2.039	39.80	38.56
#3	1.983	2.116	2.066	1.905	2.060	2.073	2.054	39.94	38.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**36.27**	**38.07**	**38.49**	**40.04**	**2.025**	**2.079**	**5.220**	**2.044**	**1.982**
Stddev	.02	.07	.03	.06	.007	.010	.023	.009	.003
%RSD	.0488	.1921	.0900	.1382	.3298	.5001	.4442	.4499	.1686
#1	36.28	38.10	38.50	40.04	2.021	2.077	5.207	2.042	1.982
#2	36.28	37.98	38.46	39.98	2.021	2.070	5.206	2.036	1.978
#3	36.25	38.12	38.52	40.09	2.033	2.090	5.247	2.054	1.985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 10/25/2018 7:49:28 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.007**	**1.978**	**2.056**	**1.968**	**2.023**	**1.999**	**2.041**
Stddev	.004	.009	.007	.009	.005	.006	.009
%RSD	.2227	.4464	.3298	.4589	.2458	.2831	.4507
#1	2.012	1.977	2.064	1.958	2.021	1.999	2.037
#2	2.003	1.970	2.052	1.968	2.020	1.994	2.034
#3	2.007	1.987	2.052	1.976	2.029	2.005	2.051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97409.**	**4398.1**	**4208.7**	**10471.**
Stddev	235.	4.4	16.4	27.
%RSD	.24087	.09939	.38936	.26164
#1	97138.	4394.0	4214.0	10480.
#2	97548.	4402.7	4221.7	10493.
#3	97540.	4397.5	4190.3	10440.

Inst QC: MA45520

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 7:54:36 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0001**	**.0000**	**-.0002**	**.0000**	**-.0018**	**-.0000**	**.0002**
Stddev	.0000	.0000	.0002	.0001	.0001	.0001	.0000	.0002
%RSD	18.93	34.93	1700.	73.81	474.5	5.684	118.4	115.0
#1	.0002	-.0001	.0002	-.0002	-.0000	-.0019	-.0000	-.0001
#2	.0003	-.0001	-.0001	-.0003	-.0000	-.0017	.0000	.0004
#3	.0002	-.0001	-.0001	-.0000	.0002	-.0018	-.0000	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0017**	**.0001**	**-.0005**	**.0004**	**-.0002**	**.0001**	**.0008**	**.0006**
Stddev	.0001	.0001	.0002	.0016	.0005	.0004	.0011	.0009
%RSD	8.294	60.13	42.11	384.5	214.3	304.0	139.4	146.9
#1	-.0018	.0001	-.0003	-.0004	-.0007	.0002	.0020	.0007
#2	-.0015	.0001	-.0004	.0023	.0003	.0005	.0008	.0014
#3	-.0017	.0002	-.0007	-.0006	-.0004	-.0003	-.0003	-.0003
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0014							
Low Limit	-.0014							

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0107**	**-.0155**	**.0057**	**-.0068**	**.0005**	**.0413**	**-.0009**	**.0004**
Stddev	.0086	.0030	.0017	.0030	.0140	.0044	.0000	.0004
%RSD	79.61	19.28	30.21	44.32	3050.	10.59	3.653	92.97
#1	.0202	-.0189	.0041	-.0098	.0166	.0364	-.0009	.0007
#2	.0085	-.0139	.0054	-.0037	-.0065	.0450	-.0009	.0005
#3	.0035	-.0136	.0075	-.0070	-.0088	.0424	-.0009	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Zoom In Zoom Out

Sample Name: ccb Acquired: 10/25/2018 7:54:36 Type: QC
Method: SGS NO VALVE3(v348) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**-.0005**	**-.0000**	**.0001**	**-.0004**	**.0001**	**.0010**	**-.0003**
Stddev	.0007	.0005	.0001	.0002	.0010	.0000	.0016	.0003
%RSD	53.87	87.53	221.0	287.3	271.5	11.32	153.9	108.2
#1	-.0020	-.0003	-.0000	.0001	-.0001	.0001	-.0008	.0000
#2	-.0011	-.0002	.0000	-.0001	.0005	.0002	.0023	-.0006
#3	-.0007	-.0011	-.0001	.0002	-.0015	.0001	.0016	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0009**	**.0043**
Stddev	.0005	.0006
%RSD	53.43	15.09
#1	-.0014	.0040
#2	-.0010	.0050
#3	-.0004	.0038
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100480.**	**4403.9**	**4361.1**	**11195.**
Stddev	745.	17.1	8.6	.
%RSD	.74153	.38837	.19698	.00341
#1	100510.	4398.5	4351.2	11195.
#2	101220.	4423.1	4366.3	11196.
#3	99728.	4390.3	4366.0	11195.

NOTE: The remaining raw data for this batch is not relevant to this job. As such it has been omitted.

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ba 455.403 { 74}	☒	2	Al	0.000000	0.000000	No
			Zr	0.001000	0.000000	No
Be 313.042 {108}	☒	11	V	0.000400	0.000000	No
			Mo	-0.000040	0.000000	No
			Ti	-0.000011	0.000000	No
			Mn	0.000016	0.000000	No
			Ba	-0.000013	0.000000	No
			Zn	0.000010	0.000000	No
			Sb	-0.000021	0.000000	No
			Ag	0.000060	0.000000	No
			Sn	0.000010	0.000000	No
			Fe	0.000000	0.000000	No
			K	0.000025	0.000000	No
Cd 228.802 {448}	☒	13	As	0.002953	0.000000	No
			Ni	-0.001040	0.000000	No
			Fe	-0.000017	0.000000	No
			Ba	0.000100	0.000000	No
			Co	-0.000302	0.000000	No
			Al	0.000000	0.000000	No
			Mg	0.000000	0.000000	No
			Ca	0.000000	0.000000	No
			Mn	-0.000014	0.000000	No
			Ti	0.000051	0.000000	No
			Cu	0.000009	0.000000	No
			Sr	-0.000050	0.000000	No
			W	-0.001172	0.000000	No
Co 228.616 {448}	☒	5	Fe	-0.000001	0.000000	No
			Ca	0.000000	0.000000	No
			Mg	0.000001	0.000000	No
			Ti	0.002055	0.000000	No
			Mo	-0.001442	0.000000	No
Cr 267.716 {126}	☒	8	Mn	0.000043	0.000000	No
			Mo	-0.000053	0.000000	No
			Co	0.000007	0.000000	No
			Al	0.000000	0.000000	No
			Sn	0.000130	0.000000	No
			Ti	0.000042	0.000000	No
			Ca	0.000000	0.000000	No
			Fe	-0.000002	0.000000	No
Cu 324.754 {104}2	☒	12	Cr	0.000055	0.000000	No
			Mo	0.000350	0.000000	No
			Ti	-0.000112	0.000000	No
			Mn	0.000026	0.000000	No
			Co	-0.000657	0.000000	No
			Zn	0.000037	0.000000	No
			Fe	-0.000076	0.000000	No
			Zr	-0.000397	0.000000	No
			V	-0.000274	0.000000	No
			Al	-0.000000	0.000000	No
			Ni	0.000032	0.000000	No
			W	0.000000	0.000000	No
Mn 257.610 {131}	☒	2	Fe	-0.000093	0.000000	No
			Mo	0.000011	0.000000	No
Ni 231.604 {446}	☒	7	Cr	-0.000028	0.000000	No
			Mo	-0.000041	0.000000	No
			Fe	0.000021	0.000000	No
			Zn	0.000017	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Co	-0.000023	0.000000	No
			Ti	0.000102	0.000000	No
			W	0.005000	0.000000	No
Ag 328.068 {103}	☒	15	Mn	-0.000004	0.000000	No
			Mo	0.000075	0.000000	No
			Ti	-0.001074	0.000000	No
			V	-0.000547	0.000000	No
			Zr	0.009928	0.000000	No
			Sb	-0.000013	0.000000	No
			Mg	-0.000001	0.000000	No
			Ca	-0.000003	0.000000	No
			Fe	-0.000322	0.000000	No
			Al	0.000001	0.000000	No
			Zn	0.000002	0.000000	No
			Ba	-0.000087	0.000000	No
			Ni	-0.000021	0.000000	No
			Cr	0.000022	0.000000	No
			As	0.000081	0.000000	No
V 292.402 {115}	☒	6	Fe	0.000035	0.000000	No
			Ti	0.000544	0.000000	No
			Mo	-0.012260	0.000000	No
			Co	-0.000106	0.000000	No
			Cr	-0.002140	0.000000	No
			Mn	-0.000693	0.000000	No
Zn 206.200 {464}	☒	13	Cr	-0.000600	0.000000	No
			Mo	-0.000376	0.000000	No
			Fe	0.000016	0.000000	No
			Co	0.000122	0.000000	No
			Ni	0.000058	0.000000	No
			Se	0.000141	0.000000	No
			Ca	0.000003	0.000000	No
			Ti	0.000131	0.000000	No
			Sn	0.000068	0.000000	No
			V	-0.000012	0.000000	No
			Al	0.000001	0.000000	No
			Si	0.000173	0.000000	No
			Zr	0.000269	0.000000	No
As 189.042 {478}	☒	22	Al	0.000005	0.000000	No
			Fe	-0.000036	0.000000	No
			Ca	0.000000	0.000000	No
			Mn	-0.000048	0.000000	No
			Mo	0.002330	0.000000	No
			Cr	0.000680	0.000000	No
			Co	-0.000027	0.000000	No
			Si	0.000021	0.000000	No
			Cu	0.000120	0.000000	No
			Mg	0.000001	0.000000	No
			Cd	-0.000103	0.000000	No
			Sn	-0.000124	0.000000	No
			Zn	0.000055	0.000000	No
			Zr	0.000050	0.000000	No
			Sb	0.000022	0.000000	No
			Ti	-0.000098	0.000000	No
			Ni	-0.000069	0.000000	No
			W	0.000000	0.000000	No
			S	-0.000002	0.000000	No
			Ba	0.000069	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Sr	0.000000	0.000000	No
			V	0.000013	0.000000	No
Tl 190.856 {477}	☒	29	Cr	0.000272	0.000000	No
			Mo	-0.013290	0.000000	No
			Al	0.000011	0.000000	No
			V	-0.011440	0.000000	No
			Mn	0.002000	0.000000	No
			Si	-0.000021	0.000000	No
			Ca	0.000008	0.000000	No
			Ti	-0.004730	0.000000	No
			Cu	0.000040	0.000000	No
			Co	0.006786	0.000000	No
			Sr	-0.000233	0.000000	No
			Zn	0.000045	0.000000	No
			Pb	-0.000014	0.000000	No
			Mg	-0.000001	0.000000	No
			Ba	-0.000019	0.000000	No
			W	-0.030000	0.000000	No
			B	-0.000796	0.000000	No
			Ni	-0.000036	0.000000	No
			Sn	-0.000200	0.000000	No
			Fe	-0.000114	0.000000	No
			Li	-0.000078	0.000000	No
			S	-0.000010	0.000000	No
			As	0.000056	0.000000	No
			Bi	0.000164	0.000000	No
			Na	0.000007	0.000000	No
			P	-0.000170	0.000000	No
			Cd	0.000117	0.000000	No
			Sb	0.000034	0.000000	No
			K	0.000000	0.000000	No
Pb 220.353 {453}	☒	20	Al	-0.000099	0.000000	No
			Ca	0.000000	0.000000	No
			Mn	0.000102	0.000000	No
			Zn	0.000027	0.000000	No
			Mo	-0.000820	0.000000	No
			Ni	0.000210	0.000000	No
			Cu	0.000273	0.000000	No
			V	-0.000152	0.000000	No
			Co	0.000007	0.000000	No
			Ti	-0.000072	0.000000	No
			Si	0.000093	0.000000	No
			Mg	0.000001	0.000000	No
			Sb	-0.000096	0.000000	No
			Cr	-0.000169	0.000000	No
			Sn	0.000016	0.000000	No
			Fe	0.000045	0.000000	No
			W	0.000000	0.000000	No
			Sr	-0.000036	0.000000	No
			Zr	-0.000049	0.000000	No
			S	-0.000010	0.000000	No
Se 196.090 {472}	☒	17	Al	-0.000007	0.000000	No
			Ca	-0.000007	0.000000	No
			Mn	0.000469	0.000000	No
			Mo	0.000086	0.000000	No
			Co	-0.000041	0.000000	No
			Cu	-0.000107	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mg	0.000000	0.000000	No
			Ti	0.000035	0.000000	No
			Zn	-0.000077	0.000000	No
			Fe	-0.000139	0.000000	No
			Si	0.000068	0.000000	No
			B	-0.000043	0.000000	No
			Ba	0.000050	0.000000	No
			S	-0.000008	0.000000	No
			Zr	-0.000267	0.000000	No
			V	0.000150	0.000000	No
			W	0.000000	0.000000	No
Sb 206.833 {463}	☒	17	Fe	-0.000000	0.000000	No
			Al	-0.000035	0.000000	No
			Ca	-0.000004	0.000000	No
			Ni	-0.000525	0.000000	No
			Cr	0.013400	0.000000	No
			V	-0.002141	0.000000	No
			Zn	-0.000104	0.000000	No
			Mo	0.000335	0.000000	No
			Ti	0.000252	0.000000	No
			Sn	-0.013553	0.000000	No
			Mn	-0.000040	0.000000	No
			Co	-0.000121	0.000000	No
			Se	-0.000252	0.000000	No
			Zr	-0.000300	0.000000	No
			W	0.000000	0.000000	No
			Mg	-0.000001	0.000000	No
			S	0.000003	0.000000	No
Al 396.152 { 85}	☒	7	Ca	0.000115	0.000000	No
			Mo	0.035605	0.000000	No
			Ti	0.000037	0.000000	No
			Si	0.001149	0.000000	No
			Co	-0.000115	0.000000	No
			Li	-0.001000	0.000000	No
			Ba	0.000725	0.000000	No
Ca 317.933 {106}	☒	5	Al	0.000043	0.000000	No
			Fe	0.000240	0.000000	No
			Mg	0.000071	0.000000	No
			Ti	-0.000042	0.000000	No
			Co	0.001850	0.000000	No
Fe 259.940 {130}	☒	11	Cr	0.000237	0.000000	No
			Zn	0.000466	0.000000	No
			Al	0.000022	0.000000	No
			Co	0.000318	0.000000	No
			Cd	0.000700	0.000000	No
			Sn	-0.000019	0.000000	No
			Ti	-0.000710	0.000000	No
			Si	0.000053	0.000000	No
			Ca	0.000012	0.000000	No
			Ba	0.000400	0.000000	No
			Mn	-0.001193	0.000000	No
Mg 279.079 {121}	☒	3	Mo	-0.023994	0.000000	No
			Pb	-0.000017	0.000000	No
			Fe	-0.000081	0.000000	No
K 766.490 { 44}	☒	None				
Na 589.592 { 57}	☒	1	Al	0.000039	0.000000	No
B 208.959 {462}	☒	1	Mo	0.028529	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Mo 202.030 {467}	☒	6	Ti	0.000050	0.000000	No
			Mg	-0.000005	0.000000	No
			Ca	0.000000	0.000000	No
			Fe	-0.000006	0.000000	No
			V	-0.000100	0.000000	No
			W	-0.004000	0.000000	No
Si 212.412 {459}	☒	11	Mn	0.000981	0.000000	No
			Fe	0.000021	0.000000	No
			Ca	0.000008	0.000000	No
			Ni	0.000391	0.000000	No
			Cd	0.001794	0.000000	No
			Cr	0.000438	0.000000	No
			Mo	0.027334	0.000000	No
			Ti	0.002984	0.000000	No
			Ba	0.000825	0.000000	No
			Sn	-0.000172	0.000000	No
			V	0.054407	0.000000	No
Sn 189.989 {478}	☒	3	Ti	-0.003009	0.000000	No
			Fe	0.000017	0.000000	No
			Mo	0.000058	0.000000	No
Sr 407.771 { 83}	☒	2	Ca	0.000033	0.000000	No
			Zr	-0.019750	0.000000	No
Ti 334.904 {101}	☒	5	Cr	0.000072	0.000000	No
			Mo	0.001251	0.000000	No
			Zr	0.000002	0.000000	No
			W	0.000004	0.000000	No
			V	0.000064	0.000000	No
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Y 224.306 {451}*	☒	None				
In 230.606 {446}*	☒	None				
W 207.911 {462}	☒	3	V	0.000064	0.000000	No
			Zn	0.010800	0.000000	No
			Fe	0.000002	0.000000	No
Zr 339.198 { 99}	☒	14	Fe	-0.000047	0.000000	No
			Si	0.000079	0.000000	No
			Ba	-0.000049	0.000000	No
			Sn	0.000051	0.000000	No
			Sb	-0.000067	0.000000	No
			V	0.000030	0.000000	No
			W	0.011025	0.000000	No
			Ti	0.000007	0.000000	No
			Al	0.000001	0.000000	No
			Ca	-0.000001	0.000000	No
			Li	-0.000500	0.000000	No
			Bi	-0.000230	0.000000	No
			Mn	0.000059	0.000000	No
			Mo	0.000516	0.000000	No
S 182.034 {485}	☒	10	Ca	0.000084	0.000000	No
			Mo	-0.000365	0.000000	No
			Al	-0.000013	0.000000	No
			Fe	0.000121	0.000000	No
			Mn	0.002976	0.000000	No
			W	0.077182	0.000000	No
			Mg	0.000055	0.000000	No
			Cr	0.000119	0.000000	No
			V	0.003667	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				B	0.007003	0.000000	No
	Bi 223.061 {451}	☒	6	Fe	0.000020	0.000000	No
				Ti	-0.000314	0.000000	No
				Co	-0.000632	0.000000	No
				Cr	0.001564	0.000000	No
				Cu	-0.002052	0.000000	No
				V	-0.000889	0.000000	No
	Li 670.784 { 50}	☒	2	Ca	0.000009	0.000000	No
				W	0.000000	0.000000	No
	P 177.495 {490}	☒	2	Mn	-0.004050	0.000000	No
				Cu	0.007356	0.000000	No

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
	Ba 455.403 { 74}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.000632	3.532433	0.000000	1.000000
	Be 313.042 {108}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.002480	4.298304	0.000000	1.000000
	Cd 228.802 {448}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.000452	1.157402	0.000000	1.000000
	Co 228.616 {448}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.000038	0.463810	0.000000	1.000000
	Cr 267.716 {126}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.000007	0.171073	0.000000	1.000000
	Cu 324.754 {104}2	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.008776	0.416358	0.000000	1.000000
	Mn 257.610 {131}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.000026	0.428845	0.000000	1.000000
	Ni 231.604 {446}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.000457	0.339598	0.000000	1.000000
	Ag 328.068 {103}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.001374	0.242439	0.000000	1.000000
	V 292.402 {115}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.000088	0.268024	0.000000	1.000000
	Zn 206.200 {464}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.001580	0.967237	0.000000	1.000000
	As 189.042 {478}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.000835	0.142715	0.000000	1.000000
	Tl 190.856 {477}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.000184	0.042806	0.000000	1.000000
	Pb 220.353 {453}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.000255	0.131430	0.000000	1.000000
	Se 196.090 {472}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.000324	0.101737	0.000000	1.000000
	Sb 206.833 {463}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.000950	0.203962	0.000000	1.000000
	Al 396.152 { 85}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.000098	0.057976	0.000000	1.000000
	Ca 317.933 {106}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.010718	0.087810	0.000000	1.000000
	Fe 259.940 {130}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.000163	0.061398	0.000000	1.000000
	Mg 279.079 {121}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.000101	0.008120	0.000000	1.000000
	K 766.490 { 44}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.005718	0.095400	0.000000	1.000000
	Na 589.592 { 57}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.004813	0.305556	0.000000	1.000000
	B 208.959 {462}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.001184	0.251925	0.000000	1.000000
	Mo 202.030 {467}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.002193	0.824788	0.000000	1.000000
	Si 212.412 {459}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.005648	0.257676	0.000000	1.000000
	Sn 189.989 {478}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.000155	0.161373	0.000000	1.000000
	Sr 407.771 { 83}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.000626	2.477254	0.000000	1.000000
	Ti 334.904 {101}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.000606	0.293807	0.000000	1.000000
	Y 360.073 { 94}*	10/25/2018 9:29:09	5/1/2013 13:59:18	Linear	None	0.000000	0.000000	0.000000	1.000000
	Y 371.030 { 91}*	10/25/2018 9:29:09	5/1/2013 13:59:18	Linear	None	0.000000	0.000000	0.000000	1.000000
	Y 224.306 {451}*	10/25/2018 9:29:09	5/1/2013 13:59:18	Linear	None	0.000000	0.000000	0.000000	1.000000
	In 230.606 {446}*	10/25/2018 9:29:09	5/1/2013 13:59:18	Linear	None	0.000000	0.000000	0.000000	1.000000
	W 207.911 {462}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.002072	0.406562	0.000000	1.000000
	Zr 339.198 { 99}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.000383	0.629652	0.000000	1.000000
	S 182.034 {485}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.000728	0.078317	0.000000	1.000000
	Bi 223.061 {451}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	-0.000592	0.276549	0.000000	1.000000
	Li 670.784 { 50}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	None	0.013613	3.002893	0.000000	1.000000
	P 177.495 {490}	10/25/2018 9:29:09	10/24/2018 15:40:11	Linear	1/Conc	-0.005957	0.172472	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ba 455.403 { 74}	1.000000	0.000000	0.000309	0.001029	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	1.000000	0.000000	0.000088	0.000293	OK.	1.000000	0.000000	1	0
Cd 228.802 {448}	1.000000	0.000000	0.000159	0.000529	OK.	1.000000	0.000000	1	0
Co 228.616 {448}	1.000000	0.000000	0.000242	0.000807	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	1.000000	0.000000	0.000232	0.000774	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}2	1.000000	0.000000	0.000149	0.000498	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	1.000000	0.000000	0.000033	0.000111	OK.	1.000000	0.000000	1	0
Ni 231.604 {446}	1.000000	0.000000	0.000294	0.000981	OK.	1.000000	0.000000	1	0
Ag 328.068 {103}	1.000000	0.000000	0.000264	0.000881	OK.	1.000000	0.000000	1	0
V 292.402 {115}	1.000000	0.000000	0.000190	0.000634	OK.	1.000000	0.000000	1	0
Zn 206.200 {464}	1.000000	0.000000	0.000160	0.000532	OK.	1.000000	0.000000	1	0
As 189.042 {478}	1.000000	0.000000	0.000941	0.003137	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	1.000000	0.000000	0.001788	0.005960	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	1.000000	0.000000	0.001075	0.003584	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	1.000000	0.000000	0.001613	0.005376	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	1.000000	0.000000	0.001033	0.003442	OK.	1.000000	0.000000	1	0
Al 396.152 { 85}	1.000000	0.000000	0.012869	0.042897	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	1.000000	0.000000	0.004738	0.015795	OK.	1.000000	0.000000	1	0
Fe 259.940 {130}	1.000000	0.000000	0.003736	0.012453	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	1.000000	0.000000	0.034713	0.115711	OK.	1.000000	0.000000	1	0
K 766.490 { 44}	1.000000	0.000000	0.026641	0.088804	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	1.000000	0.000000	0.007122	0.023741	OK.	1.000000	0.000000	1	0
B 208.959 {462}	1.000000	0.000000	0.000557	0.001857	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	1.000000	0.000000	0.000217	0.000725	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	1.000000	0.000000	0.000789	0.002628	OK.	1.000000	0.000000	1	0
Sn 189.989 {478}	1.000000	0.000000	0.000675	0.002248	OK.	1.000000	0.000000	1	0
Sr 407.771 { 83}	1.000000	0.000000	0.000160	0.000535	OK.	1.000000	0.000000	1	0
Ti 334.904 {101}	1.000000	0.000000	0.000258	0.000859	OK.	1.000000	0.000000	1	0
Y 360.073 { 94}*	0.000000	0.000000	0.000796	0.002654	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91}*	0.000000	0.000000	0.002186	0.007287	Warnin	1.000000	0.000000	1	0
Y 224.306 {451}*	0.000000	0.000000	0.004215	0.014050	Warnin	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
W 207.911 {462}	1.000000	0.000000	0.000894	0.002980	OK.	1.000000	0.000000	1	0
Zr 339.198 { 99}	1.000000	0.000000	0.000116	0.000385	OK.	1.000000	0.000000	1	0
S 182.034 {485}	1.000000	0.000000	0.001960	0.006535	OK.	1.000000	0.000000	1	0
Bi 223.061 {451}	1.000000	0.000000	0.001022	0.003407	OK.	1.000000	0.000000	1	0
Li 670.784 { 50}	1.000000	0.000000	0.000814	0.002712	OK.	1.000000	0.000000	1	0
P 177.495 {490}	1.000000	0.000000	0.000900	0.002999	OK.	1.000000	0.000000	1	0

SGS

Mercury Digestion Log

Product: **HG /HGLIQ**
Matrix: **Soil / Oil / SL / Wipes**

Method: SW846 7471B
Required corrected Temp. Range is 95C. +/- 3C.

MA Batch #: MA45511
Analyst: GT
Date: 10/25/2018
Balance ID: B-24
Reagents: See attached sheet
Auto pipet ID: M-72

Hot Block # 7 Start Time: 7:00 End Time:7:30 Tube # 1-54 .
Start Temp:94 Corrected Start Temp: 93 Correction: -1 Thermometer ID:6805236 .
End Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236 .
Hot Block # 7 Start Time: 7:30 End Time: 8:00 Tube # 55-108 .
Start Temp: 94 Corrected Start Temp: 93 Correction:-1 Thermometer ID:6805236 .
End Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236 .

Bot #	Sample ID	Initial Sample Wt. (gm)	Final Vol. (ml)	Spike Used		Spikelot and Conc.	MP Number	Comments/Lot # and Vendor
				Amount Spiked	Added Y or N	(mg/L)		
1	MP9849-MB1	0.6002	100				MP9849	
2	MP9849-B1	0.6004	100	2.0 ml	Y	0.1		HG-18-140-374-HGA1, Inorganic Ventures
3	MP9849-S1	0.9031	100	2.0 ml	Y	0.1		JC76176-1,HG-18-140-374-HGA1,(IV)
4	MP9849-S2	0.905	100	2.0 ml	Y	0.1		JC76176-1,HG-18-140-374-HGA1,(IV)
5	JC76176-1	0.9136	100					
6	JC76176-2	0.9413	100					
7	JC76176-3	1.0529	100					
8	JC76176-4	0.9263	100					
9	JC76176-5	1.0332	100					
10	JC72073-1R	0.6241	100					
11	JC72073-2R	0.6693	100					
12	JC72073-3R	0.6388	100					
13	JC72073-4R	0.6421	100					
14	JC76170-1	0.6306	100					
15	JC76170-2	0.6629	100					
16	JC76170-3	0.6226	100					
17	JC76217-3	0.6552	100					
18	JC76299-1	0.6257	100					
19	JC76299-2	0.6475	100					
20	JC76299-3	0.6188	100					
21	JC76299-4	0.6369	100					
22	JC76299-5	0.6401	100					
23	JC76299-6	0.6711	100					
24	MP9847-MB1	0.6001	100				MP9847	
25	MP9847-B1	0.6003	100	2.0 ml	Y	0.1		HG-18-140-374-HGA1, Inorganic Ventures
26	MP9847-S1	0.6581	100	2.0 ml	Y	0.1		JC75993-2,HG-18-140-374-HGA1,(IV)
27	MP9847-S2	0.6594	100	2.0 ml	Y	0.1		JC75993-2,HG-18-140-374-HGA1,(IV)
28	JC75993-2	0.6520	100					
29	JC75993-4	0.6972	100					
30	JC75995-1	0.6332	100					
31	JC75995-2	0.6524	100					
32	JC75995-3	0.6542	100					
33	JC75995-4	0.6478	100					
34	JC76005-1	0.6183	100					
35	JC76015-1	0.6519	100					

Form: HG-022F-02
Revision Date:08/24/15

ANALYST: UM
SPIKE WITNESS: BP
QC REVIERER:

DATE: 10/25/18
DATE: 10/25/18
DATE:

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SGS

Mercury Digestion Log

Product: **HG /HGLIQ**
Matrix: **Soil / Oil / SL / Wipes**

Method: SW846 7471B
Required corrected Temp. Range is 95C. +/- 3C.

MA Batch #: MA45511
Analyst: GT
Date: 10/25/2018
Balance ID: B-24
Reagents: See attached sheet
Auto pipet ID: M-72

Hot Block #_7_ Start Time: 7:00 End Time:7:30 Tube #_1-54_.
Start Temp:94 Corrected Start Temp: 93 Correction: -1 Thermometer ID:6805236.
End Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236.
Hot Block #_7_ Start Time: 7:30 End Time: 8:00 Tube #_55-108_.
Start Temp: 94 Corrected Start Temp: 93 Correction:-1 Thermometer ID:6805236.
End Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236.

Bot #	Sample ID	Initial Sample Wt. (gm)	Final Vol. (ml)	Spike Used		Spikelot and Conc.	MP Number	Comments/Lot # and Vendor
				Amount Spiked	Added Y or N	(mg/L)		
36	JC76035-1	0.6217	100					
37	JC76035-2	1.0231	100					
38	JC76037-2	0.6635	100					
39	JC76037-4	0.6654	100					
40	JC76037-6	0.6132	100					
41	JC76037-8	0.6532	100					
42	JC76037-10	0.6218	100					
43	JC76049-1	1.4762	100					
44	JC76049-2	1.3015	100					
45	JC76063-1	0.6482	100					
46	JC76063-2	0.6364	100					
47	JC76063-3	0.6581	100					
48	MP9848-MB1	0.6002	100				MP9848	
49	MP9848-B1	0.6003	100	2.0 ml	Y	0.1		HG-18-140-374-HGA1, Inorganic Ventures
50	MP9848-S1	0.6301	100	2.0 ml	Y	0.1		JC76202-4,HG-18-140-374-HGA1,(IV)
51	MP9848-S2	0.6354	100	2.0 ml	Y	0.1		JC76202-4,HG-18-140-374-HGA1,(IV)
52	JC76202-4	0.6372	100					
53	JC76202-2	0.6518	100					
54	JC76122-1	0.6491	100					
55	JC76122-2	0.6531	100					
56	JC76122-3	0.6265	100					
57	JC76122-4	0.6223	100					
58	JC76123-1	0.6443	100					
59	JC76123-2	0.6145	100					
60	JC76123-3	0.6481	100					
61	JC76123-4	0.6690	100					
62	JC76123-5	0.6274	100					
63	JC76123-6	0.6452	100					
64	JC76138-1	0.6371	100					
65	JC76138-2	0.6486	100					
66	JC76138-3	0.6328	100					
67	JC76138-4	0.6279	100					
68	JC76138-13	0.6734	100					
69	JC76138-14	0.6350	100					
70	JC76138-15	0.6680	100					

Form: HG-022F-02
Revision Date:08/24/15

ANALYST: GT
SPIKE WITNESS: BP
QC REVIERER:

DATE: 10/25/18
DATE: 10/25/18
DATE:

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SGS

Mercury Digestion Log

Product: **HG /HGLIQ**
Matrix: **Soil / Oil / SL / Wipes**

Method: SW846 7471B
Required corrected Temp. Range is 95C. +/- 3C.

MA Batch #: MA45511
Analyst: GT
Date: 10/25/2018
Balance ID: B-24
Reagents: See attached sheet
Auto pipet ID: M-72

Hot Block #_7_Start Time: 7:00_____End Time:7:30___Tube #__1-54_____.
Start Temp:94_____Corrected Start Temp: 93_____Correction: -1_____Thermometer ID:6805236_____.
End Temp: 94_____Corrected Start Temp: 93_____Correction: -1_____Thermometer ID: 6805236_____.
Hot Block #_7__Start Time: 7:30_End Time: 8:00_Tube #_55-108_____.
Start Temp: 94_____Corrected Start Temp: 93_____Correction:-1_____Thermometer ID:6805236_____.
End Temp: 94__Corrected Start Temp: 93___Correction: -1_____Thermometer ID: 6805236_____.

Bot #	Sample ID	Initial Sample Wt. (gm)	Final Vol. (ml)	Spike Used		Spikelot and Conc.	MP Number	Comments/Lot # and Vendor
				Amount Spiked	Added Y or N	(mg/L)		
71	JC76138-16	0.6200	100					
72	MP9850-MB1	0.6001	100				MP9850	
73	MP9850-B1	0.6005	100	2.0 ml	Y	0.1		HG-18-140-374-HGA1, Inorganic Ventures
74	MP9850-S1	0.6764	100	2.0 ml	Y	0.1		JC76177-1,HG-18-140-374-HGA1,(IV)
75	MP9850-S2	0.6909	100	2.0 ml	Y	0.1		JC76177-1,HG-18-140-374-HGA1,(IV)
76	JC76177-1	0.6293	100					
77	JC76138-17	0.6132	100					
78	JC76138-18	0.6504	100					
79	JC76138-19	0.6155	100					
80	JC76138-20	0.6406	100					
81	JC76138-21	0.6360	100					
82	JC76138-22	0.6330	100					
83	JC76138-23	0.6798	100					
84	JC76138-24	0.6662	100					
85	JC76138-25	0.6715	100					
86	JC76138-26	0.6848	100					
87	JC76138-27	0.6229	100					
88	JC76177-2	0.6092	100					
89	JC76177-3	0.6656	100					
90	JC76177-4	0.6501	100					
91	JC76177-5	0.6925	100					
92	JC76237-1	0.6298	100					
93	JC76237-2	0.6134	100					
94	JC76237-3	0.6030	100					
95	MP9868-MB1	0.6001	100				MP9868	
96	MP9868-B1	0.6005	100	2.0 ml	Y	0.1		HG-18-140-374-HGA1, Inorganic Ventures
97	MP9868-S1	0.6100	100	2.0 ml	Y	0.1		JC76495-1,HG-18-140-374-HGA1,(IV)
98	MP9868-S2	0.6260	100	2.0 ml	Y	0.1		JC76495-1,HG-18-140-374-HGA1,(IV)
99	JC76495-1	0.6304	100					
100	JC76435-1	0.6808	100					
101	JC76435-3	0.6313	100					
102	JC76435-5	0.6045	100					
103	JC76435-7	0.6592	100					
104	JC76435-9	0.6084	100					
105	JC76435-11	0.6130	100					

Form: HG-022F-02
Revision Date:08/24/15

ANALYST: GT
SPIKE WITNESS: BP
QC REVIERER:_____

DATE: 10/25/18
DATE: 10/25/18
DATE: _____

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SGS

Mercury Digestion Log

Product: **HG /HGLIQ**
Matrix: **Soil / Oil / SL / Wipes**

Method: SW846 7471B
Required corrected Temp. Range is 95C. +/- 3C.

MA Batch #: MA45511
Analyst: GT
Date: 10/25/2018
Balance ID: B-24
Reagents: See attached sheet
Auto pipet ID: M-72

Hot Block # 7 Start Time: ~~7:00~~ 8:30 End Time: ~~7:30~~ 9:00 Tube # ~~1-54~~ 109-147
Start Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236
End Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236
Hot Block # 7 Start Time: 7:30 End Time: ~~8:00~~ Tube # ~~55-108~~
Start Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236
End Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236

GT #2 10/25/18

Bot #	Sample ID	Initial Sample Wt. (gm)	Final Vol. (ml)	Spike Used		Spikelot and Conc.	MP Number	Comments/Lot # and Vendor
				Amount Spiked	Added Y or N	(mg/L)		
106	JC76435-13	0.6052	100					
107	JC76435-15	0.6501	100					
108	JC76435-17	0.6020	100					
109	JC76435-19	0.6510	100					
110	JC76435-21	0.6472	100					
111	JC76435-23	0.6232	100					
112	JC76495-4	0.6649	100					
113	JC76495-5	0.6425	100					
114	JC76496-1	0.6881	100					
115	JC76500-5	0.6606	100					
116	JC76508-1	0.6045	100					
117	MP9861-MB1	0.6000	100				MP9861	
118	MP9861-B1	0.6005	100	2.0 ml	Y	0.1		HG-18-140-374-HGA1, Inorganic Ventures
119	MP9861-S1	0.6480	100	2.0 ml	Y	0.1		JC76462-27,HG-18-140-374-HGA1,(IV)
120	MP9861-S2	0.6170	100	2.0 ml	Y	0.1		JC76462-27,HG-18-140-374-HGA1,(IV)
121	JC76462-27	0.6688	100					
122	JC76072-1	0.6766	100					
123	JC76072-2	0.6628	100					
124	JC76073-1	0.6295	100					
125	JC76073-3	0.6497	100					
126	JC76073-4	0.6497	100					
127	JC76117-1	0.6529	100					
128	JC76117-4	0.6325	100					
129	JC76117-6	0.6695	100					
130	JC76117-8	0.6639	100					
131	JC76117-10	0.6605	100					
132	JC76117-12	0.6333	100					
133	JC76280-1	0.6689	100					
134	JC76280-2	0.6036	100					
135	JC76280-3	0.6284	100					
136	JC76280-4	0.6458	100					
137	JC76280-5	0.6811	100					
138	JC76280-6	0.6250	100					
139	JC76371-1	0.6884	100					
140	JC76462-28	0.6133	100					
141	MP9893-MB1	0.6001	100				MP9893	
142	MP9893-B1	0.6006	100	2.0 ml	Y	0.1		HG-18-140-374-HGA1, Inorganic Ventures
143	MP9893-S1	0.6182	100	2.0 ml	Y	0.1		JC76151-1R,HG-18-140-374-HGA1,(IV)
144	MP9893-S2	0.6517	100	2.0 ml	Y	0.1		JC76151-1R,HG-18-140-374-HGA1,(IV)
145	JC76151-1R	0.6394	100					
146	JC76151-2R	0.6851	100					

Form: HG-022F-02
Revision Date:08/24/15

ANALYST: GT DATE: 10/25/18
SPIKE WITNESS: BP DATE: 10/25/18
QC REVIERER: DATE:

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SGS

Mercury Digestion Log

Product: **HG /HGLIQ**
Matrix: **Soil / Oil / SL / Wipes**

Method: SW846 7471B
Required corrected Temp. Range is 95C. +/- 3C.

MA Batch #: MA45511
Analyst: GT
Date: 10/25/2018
Balance ID: B-24
Reagents: See attached sheet
Auto pipet ID: M-72

Hot Block #7 Start Time: 7:00 End Time:7:30 Tube # 1-54.
Start Temp:94 Corrected Start Temp: 93 Correction: -1 Thermometer ID:6805236.
End Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236.
Hot Block #7 Start Time: 7:30 End Time: 8:00 Tube # 55-108.
Start Temp: 94 Corrected Start Temp: 93 Correction:-1 Thermometer ID:6805236.
End Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236.

Bot #	Sample ID	Initial Sample Wt. (gm)	Final Vol. (ml)	Spike Used		Spikelot and Conc.	MP Number	Comments/Lot # and Vendor
				Amount Spiked	Added Y or N	(mg/L)		
147	JC76151-3R	0.6123	100					

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Form: HG-022F-02
Revision Date:08/24/15

ANALYST: GT DATE: 10/25/18
SPIKE WITNESS: BP DATE: 10/25/18
QC REVIERER: DATE:

SGS

Mercury Digestion Log

Product: **HG /HGLIQ**
Matrix: **Soil / Oil / SL / Wipes**

MA Batch #: MA45511
Analyst: GT
Date: 10/25/2018
Balance ID: B-24
Reagents: See attached sheet
Auto pipet ID: M-72

Method: SW846 7471B
Required corrected Temp. Range is 95C. +/- 3 C.

Hot Block #7_____Start Time: 8:00 _____End Time: 8:30 _____Tube #_
Start Temp:94___Corrected Start Temp: 93 ____Correction: -1 ___Thermometer ID: 6805236 _____.
End Temp: 94 _____Corrected Start Temp: 93 _____Correction: -1 _____Thermometer ID: 6805236 _____.

Bot #	Sample ID	Initial Sample Wt. (gm)	Final Vol. (ml)	Spike Used		Spikelot and Conc.	MP Number	Comments/Lot # and Vendor
				Amount Spiked	Added Y or N	(mg/L)		
S-1	Calibration Blank	0.6	100 ml	0.0 ml	N	N/A	N/A	N/A
S-2	0.20 ug/l standard	0.6	100 ml	2.0 ml	Y	0.0100	N/A	HG-18-140-375-HGA2, Inorganic Ventures
S-3	0.50 ug/l standard	0.6	100 ml	5.0 ml	Y	0.0100	N/A	HG-18-140-375-HGA2, Inorganic Ventures
S-4	1.00 ug/l standard	0.6	100 ml	1.0 ml	Y	0.1000	N/A	HG-18-140-374-HGA1, Inorganic Ventures
S-5	2.50 ug/l standard	0.6	100 ml	2.5 ml	Y	0.1000	N/A	HG-18-140-374-HGA1, Inorganic Ventures
S-6	5.00 ug/l standard	0.6	100 ml	5.0 ml	Y	0.1000	N/A	HG-18-140-374-HGA1, Inorganic Ventures
ICV	ICV (External)	0.6	100 ml	3.0 ml	Y	0.1		HG-18-140-376-HGB1, Ultra
ICB	ICB	0.6	100 ml	0.0 ml	N	N/A	N/A	
CCV	CCV	0.6	100 ml	2.5 ml	Y	0.1		HG-18-140-374-HGA1, Inorganic Ventures
CCB	CCB	0.6	100 ml	0.0 ml	N	N/A	N/A	
CRI	CRI	0.6	100 ml	2.0 ml	Y	0.01		HG-18-140-375-HGA2, Inorganic Ventures

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Reagent Information Log- Hg Soil

MA # 45511

Reagents	Exp. Date	Reagent # or manufacturer lot #
Conc. HydroChloric Acid	10/24/2020	Baker 201226
Conc. Nitric Acid	10/9/2020	Baker - 197345
Sodium Chloride-Hydroxylamine Hydrochloride	4/22/2019	HG-18-140- 362 -HGHCL
Potassium Permanganate	4/22/2019	HG-18-140- 360 -HGKM2
Stannous Chloride	10/26/2018	HG-18-140- 377 -HGS
STD Hg standard solution 1000 ppm	3/1/2019	Inorganic Ventures K2-HG653768
STD Hg standard solution 100 ppb	10/26/2018	HG-18-140- 374 -HGA1
STD Hg standard solution 10 ppb	10/26/2018	HG-18-140- 375 -HGA2
ICV Hg standard solution 1000 ppm	6/30/2021	Ultra T00601
ICV Hg standard solution 100 ppb	10/26/2018	HG-17-132- 376 -HGB1
Solid Lab control/Soil LC	3/31/2020	ERA D094-540
Aqua Regia	10/26/2018	HG-18-140- 378 -HGKAQ
Dilution acid	4/22/2019	HG-18-140- 363 -HGD1
Digestion Tubes	N/A	Environmental Express 1807160
Teflon Chips (For Soil MB)	N/A	Chemware , Lot: 0919120

Form: GN087A80-04
Rev.Date: 06/06/17

SGS North America Inc.

Solids/Soil Metals Digestion Form

Batch Information

Batch ID	Start Date	Start Time	End Date	End time	QC Samp 1	QC Samp 2
MP9853	10/24/2018	14:00	10/24/2018	1830	JC76479-1	

Temperature

		Block ID	Therm. ID#	Balance ID	Temperature	Correction	Corrected Temp
1	Start	10	3124598	B-41	94	-2	92
1	End	10	3124598	NA	96	-2	94
2	Start						
2	End			NA			

Methods and Equipment

	Dig. Method	Heating Method		Auto Pipette #	Digestion Tube Lot #
	SW846 3050B	Digestion Block		M-74	1807160

Sample ID	Bottle ID	Final Volume (ML)	Wet Weight (G)	Reagent Groups Added	Spike Groups Added	Comments
MP9853-MB1	N/A	100	0.97	ABCD		
MP9853-B1	N/A	100	1.01	ABCD	ABCD	
MP9853-S1	1	100	0.99	ABCD	ABCD	
MP9853-S2	1	100	1.00	ABCD	ABCD	
MP9853-SD1	1	100	0.99	ABCD		
JC75143-26	1	100	0.96	ABCD		
JC75143-27	1	100	0.97	ABCD		
JC75143-28	1	100	1.03	ABCD		
JC75143-29	1	100	1.04	ABCD		
JC75143-30	1	100	1.00	ABCD		
JC75143-31	1	100	0.98	ABCD		
JC75143-32	1	100	1.04	ABCD		
JC75143-33	1	100	1.01	ABCD		
JC75143-34	1	100	0.96	ABCD		
JC75143-35	1	100	0.96	ABCD		
JC75143-36	1	100	0.98	ABCD		
JC75143-37	1	100	0.98	ABCD		
JC75143-38	1	100	0.98	ABCD		
JC76042-1A	2	100	1.03	ABCD		
JC76479-1	1	100	0.99	ABCD		
JC76485-1	1	100	1.03	ABCD		
JC76500-5	2	100	0.96	ABCD		
JC76508-1	1	100	1.02	ABCD		

Reagents Groups

Group	Description	MLs Used
A	CONC HNO3	5
B	1:1 HNO3	10
C	H2O2	5
D	CONC HCL	10
E		
F		
G		
H		

Spike Groups

Group	Description	MLs Used
A	ACCUTEST 13A REV-1	1
B	ACCUTEST 14A REV-1	1
C	MINERALS 5000PPM	0.5
D	AG 20PPM	1.25
E		
F	AG 20PPM	1.25
G		
H		

Comments: _____

Analyst COLLEENH **Approved by** gulcagt **Approved on** 10/25/2018

Note: Reagent traceability for batch Start Date can be seen on the reagent traceability page for this batch.
Serial Dilution samples shown for QC purposes only.
Acceptable Temperature range is 90-95 degrees C unless otherwise noted

Document Control #: NJ-MET-PREP-SO-01 (2456482.5460764432) Validated by: Validated on:

SGS

Metals Digestion Reagents Information Log

Digestion Batch ID: MP 9853 **Date:** 10/24/18

Matrix: ALL

Standard/Reagent Type	Exp. Date	Standard/Reagent ID
Spiking Solution - (ACCUTEST -13A Rev1)	4/10/2019	MP-015-1098
Spiking Solution - (ACCUTEST -14A Rev1)	4/10/2019	MP-015-1099
Spiking Solution - 5000 mg/l Minerals	10/8/2019	N2-MEB67112 MFG: INO. VENT.
Spiking Solution - Sulfur 1000ppm	4/11/2021	LOT: 04118 MFG: ABS. GRADE
Spiking Solution - Si 1000ppm	5/11/2019	K2-SI654310 MFG: INO. VENT
Spiking Solution - Bi 1000ppm	12/1/2018	M2-B1658289 MFG: INO. VENT
Spiking Solution - Se 20ppm	4/12/2019	MA-18-339-120
Spiking Solution - Li 1000ppm	11/14/2018	M2-LI657553 MFG: INO. VENT
Spiking Solution- Ag 20 ppm	4/19/2019	MP-015-1102
Spiking Solution - (ACCUTEST -13B Rev1)	3/26/2019	MP-015-1092
Spiking Solution - (ACCUTEST -14B Rev1)	3/26/2019	MP-015-1093
Spiking Solution -1000ppm Minerals	3/12/2019	MA-18-339-86
Spiking Solution- P		
Nitric Acid	10/24/2020	LOT: 202943 MFG: J.T. BAKER
Nitric Acid (1:1)	4/22/2019	MP-018-42-8 1:1 HNO3
Hydrochloric Acid	10/23/2020	LOT: 198300 MFG: J.T. BAKER
Hydrochloric Acid (1:1)	4/17/2019	MP-018-42-87 1:1 HCL
Hydrogen Peroxide	10/22/2020	LOT: 182019 MFG: FISHER
Soil Lab Control/Soil LC	3/21/2020	LOT: D094-540 MFG: ERA
Teflon Chips(For Soil MB and Blank Spike)	N/A	LOT: 23656541 MFG: CHEMWARE
Digestion Tubes	N/A	LOT: 1807160 MFG: ENV. EXPRESS
pH Paper	3/1/2020	LOT: 206717 MFG: HYDRION
Filter paper Q8	N/A	LOT: 9802858 MFG: FISHER
Filter paper 0.45µm	N/A	LOT: F7NA69768 MFG: FISHER

Spike witnessed By: JG

Validated By:

Validated On:

AA014-06 (Metals Digest Stds)-DAYT-MET-0039-06-FORM-Metals Digestion Reagants Info Log.xls
1/17/18

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General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC
- Percent Solids Raw Data Summary

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP16854/GN87511	0.24	0.0	mg/kg	2	2.03	101.5	90-110%

Associated Samples:
Batch GP16854: JC76508-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP16854/GN87511	JC76263-5	mg/kg	0.23	0.0	200.0(a)	0-49%
Solids, Percent	GN87429	JC76387-1	%	81.3	81.5	0.2	0-5%

Associated Samples:
Batch GN87429: JC76508-1
Batch GP16854: JC76508-1
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP16854/GN87511	JC76263-5	mg/kg	0.23	1.46	1.5	87.0	75-125%

Associated Samples:
Batch GP16854: JC76508-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: E102518W1.CN Date Analyzed: 10/25/18 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT, SW846 CHAP
Analyst: BM Run ID: GN87511
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:31	GN87511-STD1	1		STDA
15:32	GN87511-STD2	1		STDB
15:34	GN87511-STD3	1		STDC
15:35	GN87511-STD4	1		STDD
15:36	GN87511-STD5	1		STDE
15:38	GN87511-STD6	1		STDF
15:39	GN87511-STD7	1		STDG
15:40	GN87511-ICV1	1		
15:42	GN87511-ICB1	1		
15:43	GN87511-CCV1	1		
15:44	GN87511-CCB1	1		
15:46	GP16854-MB1	1		
15:47	GP16854-B1	1		
15:49	GP16854-S1	1		
15:50	GP16854-D1	1		
15:51	ZZZZZZ	1		
15:53	ZZZZZZ	1		
15:54	JC76263-5	1		(sample used for QC only; not part of login JC76508)
15:55	JC76508-1	1		
15:57	ZZZZZZ	1		
15:58	ZZZZZZ	1		
15:59	GN87511-CCV2	1		
16:01	GN87511-CCB2	1		
16:02	ZZZZZZ	1		
16:04	ZZZZZZ	1		
16:05	GP16853-MB1	1		
16:06	GP16853-B1	1		
16:08	GP16853-S1	1		
16:09	GP16853-D1	1		
16:10	ZZZZZZ	1		
16:12	ZZZZZZ	1		
16:13	JC76319-1	1		(sample used for QC only; not part of login JC76508)
16:14	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: E102518W1.CN Date Analyzed: 10/25/18 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT, SW846 CHAP
Analyst: BM Run ID: GN87511
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:16	GN87511-CCV3	1		
16:17	GN87511-CCB3	1		
16:18	ZZZZZZ	1		
16:20	ZZZZZZ	1		
16:21	ZZZZZZ	1		
16:23	ZZZZZZ	1		
16:24	ZZZZZZ	1		
16:25	GP16832-MB1	1		
16:27	GP16832-B1	1		
16:28	GP16832-D1	1		
16:29	JC75718-9	1		(sample used for QC only; not part of login JC76508)
16:31	ZZZZZZ	1		
16:32	GN87511-CCV4	1		
16:33	GN87511-CCB4	1		
16:35	ZZZZZZ	1		
16:36	ZZZZZZ	1		
16:38	ZZZZZZ	1		
16:39	ZZZZZZ	1		
16:40	ZZZZZZ	1		
16:42	ZZZZZZ	1		
16:43	ZZZZZZ	1		
16:44	ZZZZZZ	1		
16:46	ZZZZZZ	1		
16:47	ZZZZZZ	1		
16:48	GN87511-CCV5	1		
16:50	GN87511-CCB5	1		
16:51	ZZZZZZ	1		
16:52	ZZZZZZ	1		
16:54	ZZZZZZ	1		
16:57	GN87511-CCV6	1		
16:58	GN87511-CCB6	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: JC76508
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

File ID: E102518W1.CN Date Analyzed: 10/25/18 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT, SW846 CHAP
Run ID: GN87511 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN87511-ICV1	Cyanide	0.324	0.010	0.0041	.3	108.0	90-110
GN87511-ICB1	Cyanide	-0.00918	0.010	0.0041			
GN87511-CCV1	Cyanide	0.435	0.010	0.0041	.4	108.8	90-110
GN87511-CCB1	Cyanide	0.0041 U	0.010	0.0041			
GN87511-CCV2	Cyanide	0.423	0.010	0.0041	.4	105.8	90-110
GN87511-CCB2	Cyanide	0.0041 U	0.010	0.0041			
GN87511-CCV3	Cyanide	0.424	0.010	0.0041	.4	106.0	90-110
GN87511-CCB3	Cyanide	-0.00418	0.010	0.0041			
GN87511-CCV4	Cyanide	0.426	0.010	0.0041	.4	106.5	90-110
GN87511-CCB4	Cyanide	-0.00593	0.010	0.0041			
GN87511-CCV5	Cyanide	0.426	0.010	0.0041	.4	106.5	90-110
GN87511-CCB5	Cyanide	-0.00632	0.010	0.0041			
GN87511-CCV6	Cyanide	0.426	0.010	0.0041	.4	106.5	90-110
GN87511-CCB6	Cyanide	0.0041 U	0.010	0.0041			

(!) Outside of QC limits

Percent Solids Raw Data Summary

Job Number: JC76508
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: JC76508-1 **Analyzed:** 24-OCT-18 by SF **Method:** SM2540 G 18TH ED MOD
ClientID: MH-42A-102318

Wet Weight (Total)	28.96	g
Tare Weight	22.62	g
Dry Weight (Total)	23.49	g
Solids, Percent	13.7	%

General Chemistry

Raw Data

LABORATORY REVIEW SIGNATURE FORM
(To be stored with the raw data)

File ID: E102518W1.CN
Analyst: BM

Date Analyzed: 10/25/18
Run ID: GN87511

Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT, SW846

The following analyst(s) have reviewd this run and attest that, to the best of their knowledge, this documentation is complete and correct:

Analyst: BM Date 10/25/18

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

The following supervisor or their designee has reviewed this run and attests that, to the best of their knowledge, this documentation is complete and correct:

Supervisor (or designee): _____ Date _____

Author: chemistry

GN87511

e1025 IPW1-CN

Date : 10/25/2018

Original Run Filename: OM_10-25-2018_03-30-10PM.OMN Created: 10/25/2018 3:30:10 PM
Original Run Author's Signature: [chemistry]
Current Run Filename: OM_10-25-2018_03-30-10PM.OMN Last Modified: 10/25/2018 5:00:52 PM
Current Run Author's Signature: [chemistry]
Description: Default new Run

Sample	Rep.	Cup No.	Channel 1 CN	Detection Time	MDF	
STDA	1	1	0.800	10/25/2018@3:31:20 PM		
STDB	1	2	0.600	10/25/2018@3:32:42 PM		
STDC	1	3	0.400	10/25/2018@3:34:04 PM		
STDD	1	4	0.100	10/25/2018@3:35:26 PM		
STDE	1	5	0.0200	10/25/2018@3:36:48 PM		
STDF	1	6	0.0100	10/25/2018@3:38:10 PM		
STDG	1	7	0.00	10/25/2018@3:39:32 PM		
ICV	1	8	0.324	10/25/2018@3:40:54 PM		108%
	Known Conc:		0.300			
	Calibration:		Table/Fig. : 1			
ICB	1	9	-9.18e-3	10/25/2018@3:42:15 PM		
	Known Conc:		0.00			
CCV	1	S9	0.435	10/25/2018@3:43:37 PM		108.7%
	Known Conc:		0.400			
CCB	1	S10	-3.78e-3	10/25/2018@3:44:59 PM		
	Known Conc:		0.00			
	Calibration:		Table/Fig. : 2			
GP16854-MB1	1	10	1.39e-3	10/25/2018@3:46:20 PM		
GP16854-B1	1	11	0.0844	10/25/2018@3:47:41 PM		101.3%
GP16854-S1	1	12	0.0852	10/25/2018@3:49:02 PM		
GP16854-D1	1	13	3.54e-3	10/25/2018@3:50:23 PM		
JC76263-3	1	14	5.96e-3	10/25/2018@3:51:44 PM		
JC76263-4	1	15	6.60e-3	10/25/2018@3:53:05 PM		
JC76263-5	1	16	9.65e-3	10/25/2018@3:54:27 PM		
JC76508-1	1	17	4.19e-3	10/25/2018@3:55:49 PM		
JC75963-1	1	18	2.70e-3	10/25/2018@3:57:11 PM		
JC75968-2	1	19	2.71e-3	10/25/2018@3:58:33 PM		
CCV	1	S9	0.423	10/25/2018@3:59:55 PM		105.7%
	Known Conc:		0.400			
CCB	1	S10	-3.92e-3	10/25/2018@4:01:17 PM		
	Known Conc:		0.00			
JC75968-4	1	20	6.88e-3	10/25/2018@4:02:39 PM		
JC76005-1	1	21	0.0108	10/25/2018@4:04:00 PM		
GP16853-MB1	1	22	6.52e-4	10/25/2018@4:05:22 PM		
GP16853-B1	1	23	0.0857	10/25/2018@4:06:44 PM		102.8%
GP16853-S1	1	24	0.0795	10/25/2018@4:08:05 PM		
GP16853-D1	1	25	5.15e-4	10/25/2018@4:09:27 PM		
JC76263-1	1	26	1.82e-3	10/25/2018@4:10:48 PM		
JC76403-1Q	1	27	3.36e-3	10/25/2018@4:12:09 PM		
JC76319-1	1	28	6.17e-4	10/25/2018@4:13:30 PM		
JC76319-2	1	29	4.70e-3	10/25/2018@4:14:51 PM		
CCV	1	S9	0.424	10/25/2018@4:16:13 PM		106%
	Known Conc:		0.400			
CCB	1	S10	-4.18e-3	10/25/2018@4:17:35 PM		
	Known Conc:		0.00			
JC76319-3	1	30	5.03e-4	10/25/2018@4:18:55 PM		
JC76319-4	1	31	4.64e-4	10/25/2018@4:20:18 PM		
JC76194-1	1	32	2.72e-3	10/25/2018@4:21:40 PM		
JC76194-2	1	33	2.49e-3	10/25/2018@4:23:02 PM		
JC76194-3	1	34	8.49e-4	10/25/2018@4:24:24 PM		
GP16831-MB1	1	35	-5.78e-3	10/25/2018@4:25:46 PM		
GP16831-B1	1	36	0.245	10/25/2018@4:27:08 PM		12.2%
GP16831-D1	1	37	-5.49e-3	10/25/2018@4:28:30 PM		
JC75718-9	1	38	-5.63e-3	10/25/2018@4:29:52 PM		
JC75718-10	1	39	-5.91e-3	10/25/2018@4:31:13 PM		
CCV	1	S9	0.426	10/25/2018@4:32:35 PM		106.5%
	Known Conc:		0.400			
CCB	1	S10	-5.93e-3	10/25/2018@4:33:57 PM		
	Known Conc:		0.00			
JC75718-11	1	40	-5.61e-3	10/25/2018@4:35:18 PM		

Author: chemistry

Date : 10/25/2018

JC75718-12	1	41	-5.10e-3	10/25/2018@4:36:39 PM	
JC75718-13	1	42	-5.96e-3	10/25/2018@4:38:00 PM	
JC75718-14	1	43	-4.97e-3	10/25/2018@4:39:21 PM	
JC75718-15	1	44	-3.98e-3	10/25/2018@4:40:42 PM	
JC75718-16	1	45	-5.35e-3	10/25/2018@4:42:03 PM	
JC75718-17	1	46	-4.59e-3	10/25/2018@4:43:26 PM	
JC75718-18	1	47	0.0155	10/25/2018@4:44:48 PM	
JC75718-19	1	48	-4.51e-3	10/25/2018@4:46:10 PM	
JC75718-20	1	49	-5.40e-3	10/25/2018@4:47:32 PM	
CCV	1	S9	0.426	10/25/2018@4:48:54 PM	106.5-1.
	Known Conc:		0.400		
CCB	1	S10	-6.32e-3	10/25/2018@4:50:16 PM	
	Known Conc:		0.00		
JC75718-21	1	50	-5.29e-3	10/25/2018@4:51:37 PM	
JC76268-1	1	51	-3.24e-3	10/25/2018@4:52:59 PM	
JC76268-2	1	52	9.61e-3	10/25/2018@4:54:21 PM	
CCV	1	S9	0.426	10/25/2018@4:57:24 PM	106.5-1.
	Known Conc:		0.400		
CCB	1	S10	-3.91e-3	10/25/2018@4:58:46 PM	
	Known Conc:		0.00		

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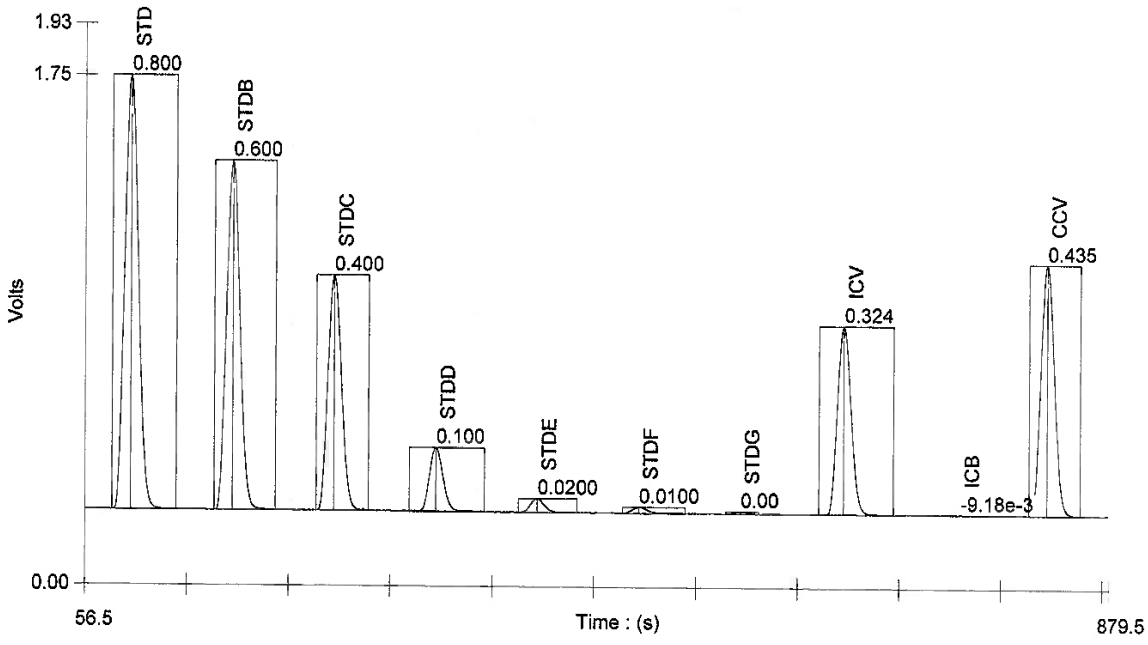
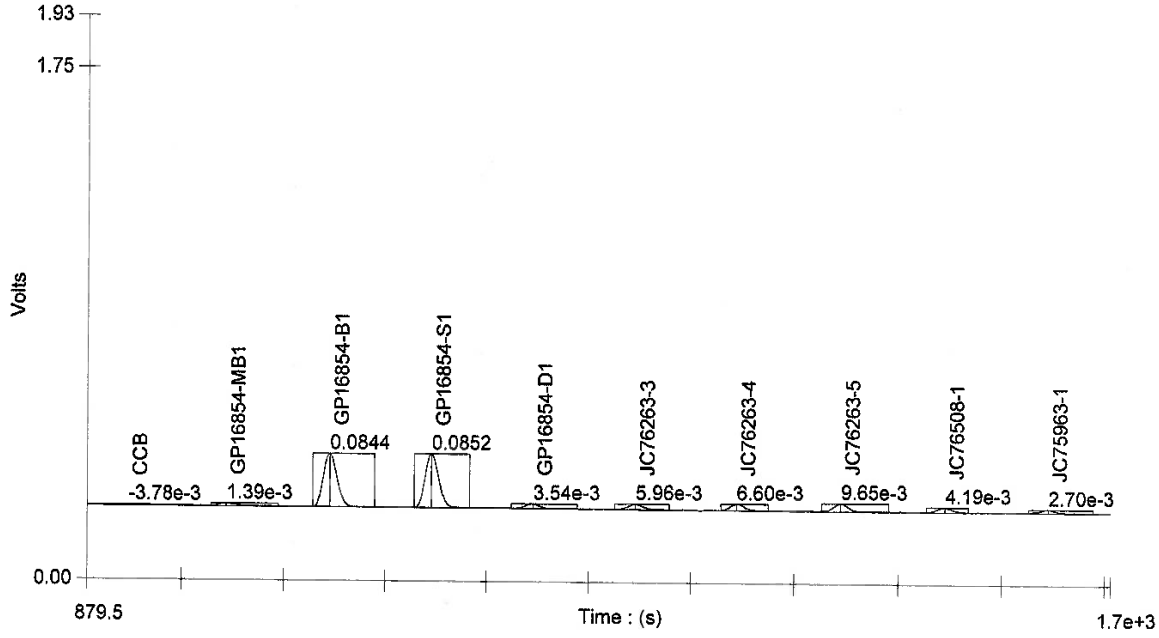


Author: chemistry

Date : 10/25/2018

Channel 1 - Set: 2 / 7



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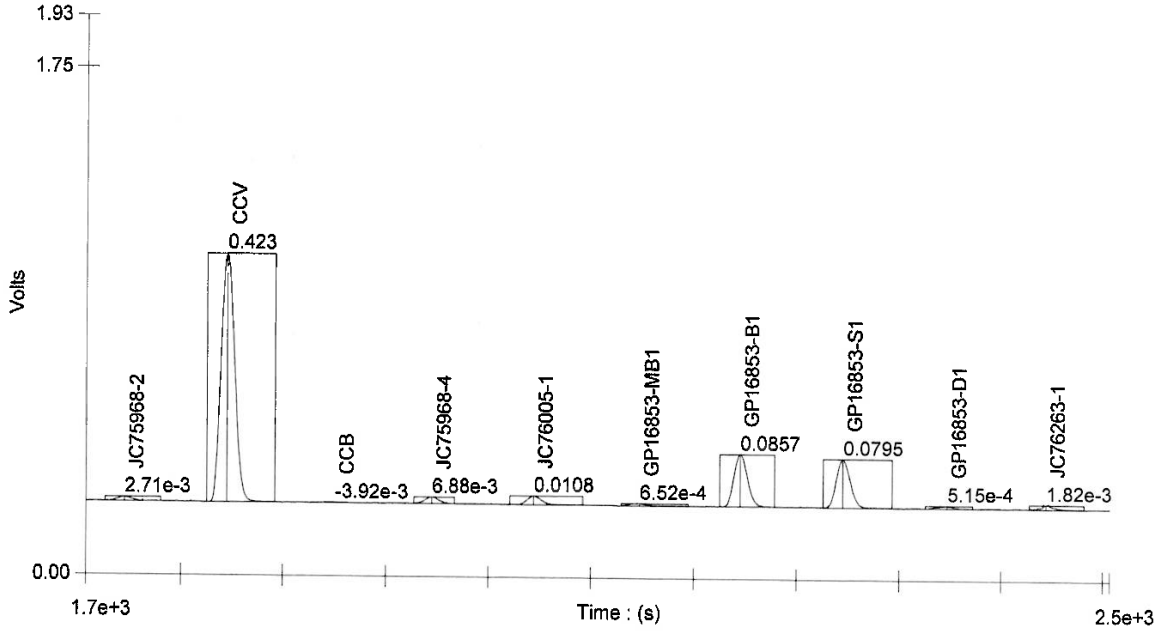
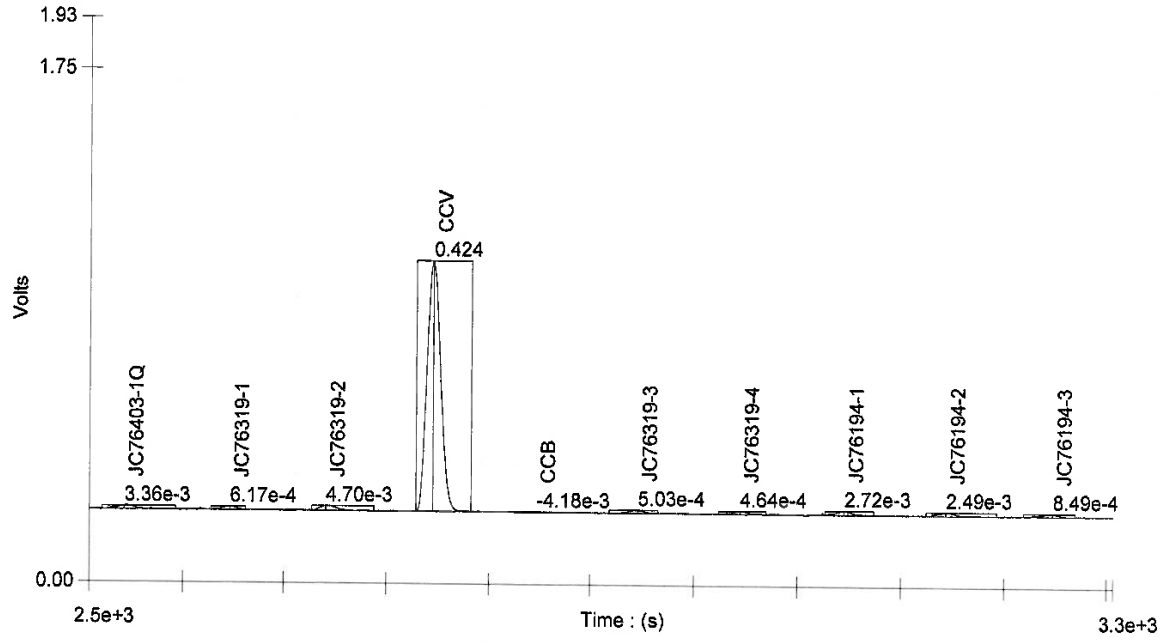


Author: chemistry

Date : 10/25/2018

Channel 1 - Set: 4 / 7



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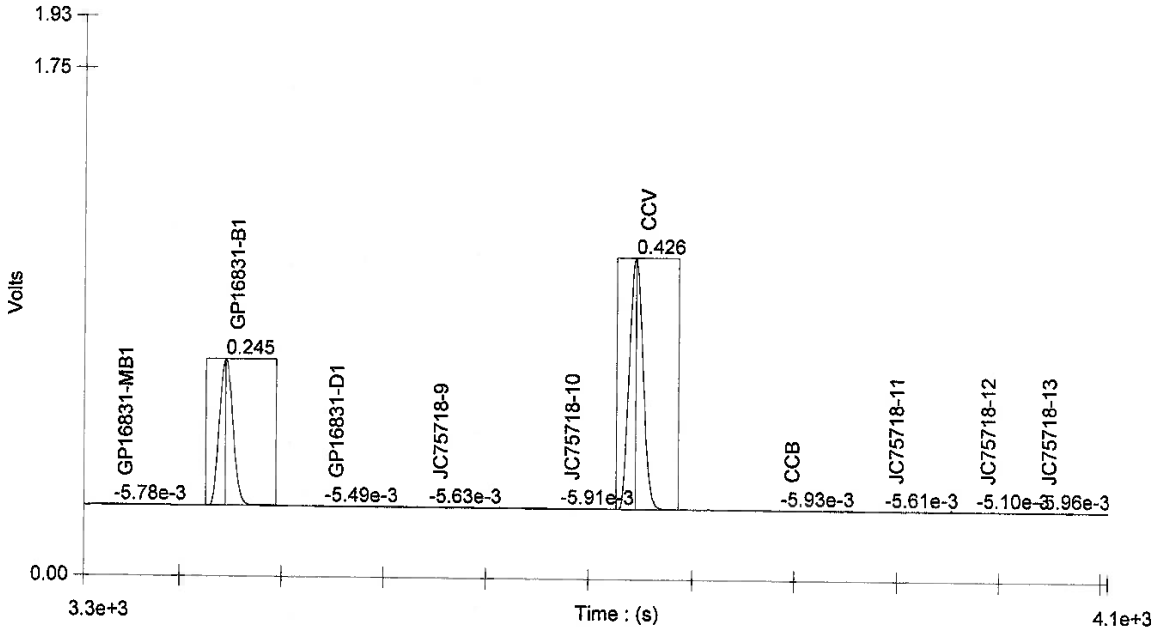
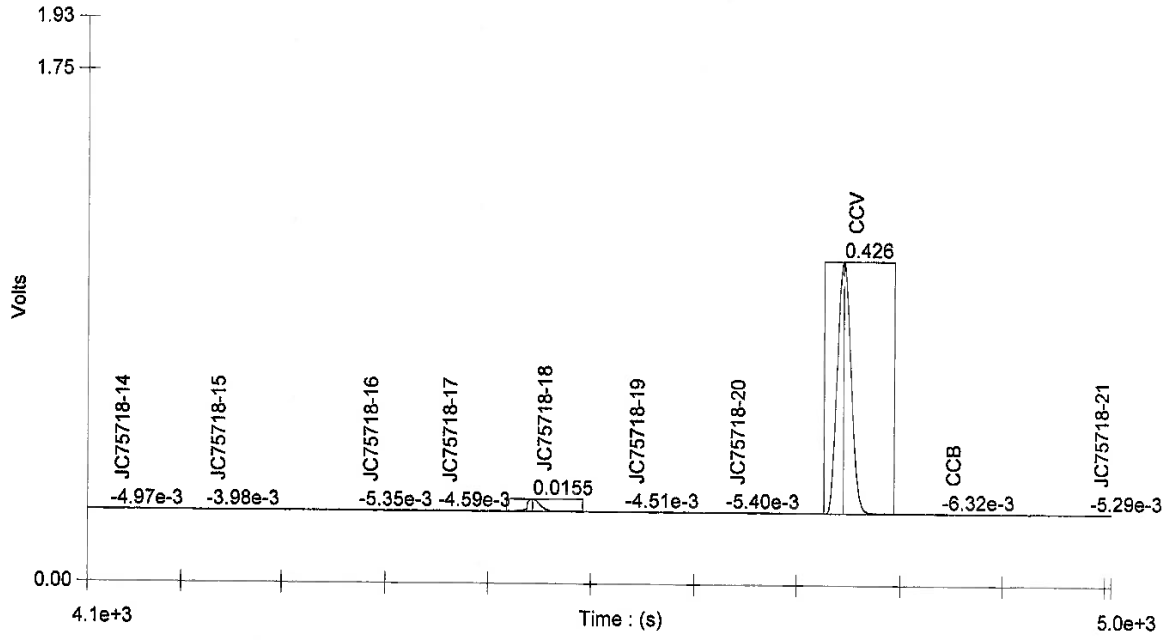


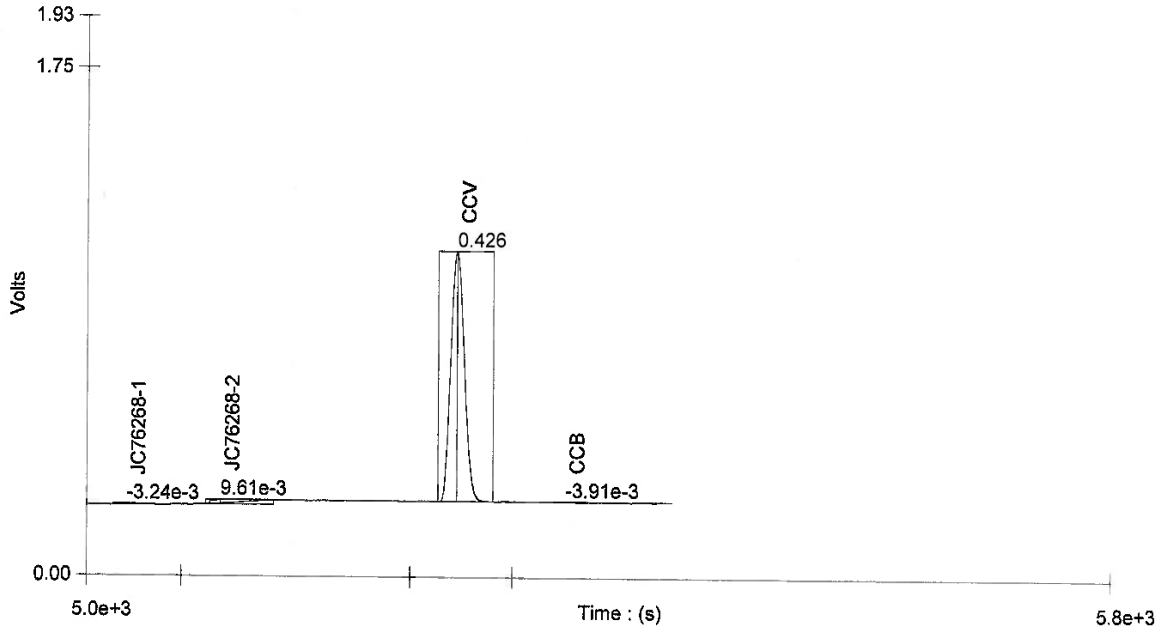
Author: chemistry

Date : 10/25/2018

Channel 1 - Set: 6 / 7



Channel 1 - Set: 7 / 7



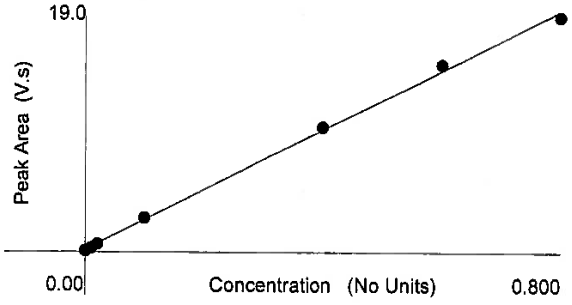
Author: chemistry

Date : 10/25/2018

Table : 1 (CN)

	Known Conc. ()	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc ()	Detection Date	Detection Time
1	0.800	1	19.0	1.49	0.0	2.5	0.779	10/25/2018	3:31:20 PM
2	0.600	1	15.2	1.20	0.0	-3.3	0.620	10/25/2018	3:32:42 PM
3	0.400	1	10.1	0.807	0.0	-2.2	0.409	10/25/2018	3:34:04 PM
4	0.100	1	2.78	0.219	0.0	-5.6	0.106	10/25/2018	3:35:26 PM
5	0.0200	1	0.616	0.0479	0.0	12.2	0.0169	10/25/2018	3:36:48 PM
6	0.0100	1	0.305	0.0213	0.0	33.8	3.99e-3	10/25/2018	3:38:10 PM
7	0.00	1	0.0971	7.68e-3			-4.63e-3	10/25/2018	3:39:32 PM

Figure : 1 (CN)



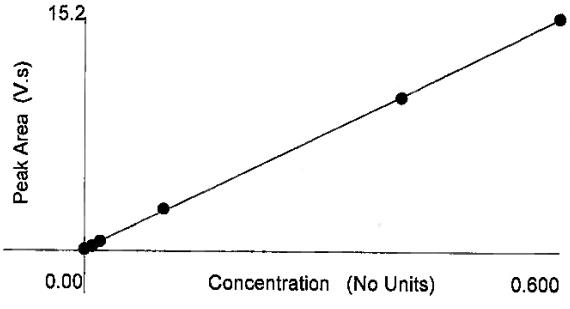
Area = 24.1 * Conc + 0.219
Conc = 0.0414 * Area - 8.65e-3
Correlation Coefficient (r) = 0.99920

Weighting : None

Table : 2 (CN)

	Known Conc. ()	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc ()	Detection Date	Detection Time
1	(0.800)	(1)	(19.0)	(1.49)					
2	0.600	1	15.2	1.20	0.0	-0.1	0.601	10/25/2018	3:32:42 PM
3	0.400	1	10.1	0.807	0.0	0.6	0.397	10/25/2018	3:34:04 PM
4	0.100	1	2.78	0.219	0.0	-5.6	0.106	10/25/2018	3:35:26 PM
5	0.0200	1	0.616	0.0479	0.0	1.4	0.0197	10/25/2018	3:36:48 PM
6	0.0100	1	0.305	0.0213	0.0	18.5	7.27e-3	10/25/2018	3:38:10 PM
7	0.00	1	0.0971	7.68e-3			-1.03e-3	10/25/2018	3:39:32 PM

Figure : 2 (CN)



Area = 25.1 * Conc + 0.124
Conc = 0.0399 * Area - 4.90e-3
Correlation Coefficient (r) = 0.99992

Weighting : None

ACCUTEST.

CYANIDE DISTILLATION LOG (WATERS- MICRO DISTILLATION)

Method: EPA 335.4 or SW-846 9012 M (Circle Method)

GP16853

Batch ID:

Autopipette ID: 43

Balance ID: NA

Bottle#	Block#	Sample ID	pH	S2-	Add (a)	Initial Volume (ml)	Final Volume (ml)	Temp. in Deg. C (b)	Start Time	End Time	Date	QC ID	Spike Amounts and Comments	Spike Lot	Ana
	1	MB1	12	—	✓	6	6	120	14:40	15:10	10/25/18	GP -MB1			BM
		B1										GP -B1	0.10 ml of 5.0 mg/l (c)		
9		S1 JC76319-1										GP -S1	0.10 ml of 5.0 mg/l	✓	
												GP -S2	0.10 ml of 5.0 mg/l		
9		D1 JC76319-1										GP -D1		✓	
7		JC76263-1													
5		JC76403-1Q													
9		JC76319-1													
9		-2													
9		-3													
9		-4													
9		JC76194-1													
9		-2													
9		-3													

(a) Check if sulfamic acid was added.

(b) Record temp. from the LED readout on the distillation block. Temperatures verified with an external thermometer a min. of once per quarter.

(c) If the calibration curve is not distilled, then in addition to the blank spike, the analyst must also prepare two distilled standards using 0.12 ml of 1.0 mgl for one and 0.15 ml of 20.0 mg/l for the other.

Comments:

QC Reviewer:

Form: GN0012-04

Rev. Date: 03/09/13

Date:

SGS

GENERAL CHEMISTRY STANDARD PREPARATION LOG

Product: CN

GN or GP Number: GP16863

Intermediate Standard Description	Stock used to prepare standard	Standardization Date	Stock concentration in mg/l	Stock volume used in ml (a)	Autopipet ID	Diluent (b)	Final Volume in ml	Final Conc. of Intermediate (mg/l)	Expiration Date (c)	Analyst	Date
5 PPM intermediate	GNE10-56161-CN	10/25/18	984	1.000	42	.25 N NaOH	200	5.00	11/1/18	BM	10/25/18
5 PPM ext.	GNE8-55492-CN	10/25/18	972	1	42	.25 N NaOH	200	5.00	11/1/18	BM	10/25/18

Standard Description	Intermediate or Stock used to prepare standard		Intermediate or Stock concentration in mg/l	Intermediate or Stock volume used in ml	Autopipet ID	Diluent (b)	Final Volume in ml	Final Conc. Of Standard (mg/l)		Analyst	Date
A	5.0 ppm CN STD		5.0	16.00	A	.25 N NaOH	100	0.80	10/21/18	bm	10/25/18
B	5.0 ppm CN STD		5.0	12.00	A	.25 N NaOH	100	0.60	10/21/18	bm	10/25/18
C	5.0 ppm CN STD		5.0	8.00	A	.25 N NaOH	100	0.40	10/21/18	bm	10/25/18
D	5.0 ppm CN STD		5.0	2.00	42	.25 N NaOH	100	0.10	10/21/18	bm	10/25/18
E	5.0 ppm CN STD		5.0	0.40	42	.25 N NaOH	100	0.02	10/21/18	bm	10/25/18
F	5.0 ppm CN STD		5.0	0.20	42	.25 N NaOH	100	0.01	10/21/18	bm	10/25/18
Undistilled ICV Int.	5 PPM EXT STD	10/25/18	0.3	6.00	42	.25 N NaOH	100	0.30	10/21/18	bm	10/25/18
Undistilled CCV Int.	5.0 ppm CN STD	10/25/18	0.4	8.00	42	.25 N NaOH	100	0.40	10/21/18	bm	10/25/18

(a) Concentration will change with standardization concentration.

(b) Diluent reagent reference number: SEE ATTACHED Expiration Date: SEE ATTACHED

(c) Standards must be made fresh (daily) before distillation. After distillation, they may be held under refrigeration for a maxiumum of 28 days before analysis.

*If Class A glass pipets are used, enter an A. For balances or autopipets, then enter the approcpriate Accutest ID number.

Reason codes for data corrections: 1-reviewer error correction; 2-transciption error; 3-computer error; 4-analyst error

Form: GN193-02

Rev. Date:1/6/2014

SGS

Reagent Information Log - CN - Distillation

GP Numbers: GP16853

Reagent	Reagent # or Manufacturer/Lot	Expiration date
Silver Nitrate Solution 0.0192 N	GNE6-55074-CN	12/23/2018
Magnesium Chloride Solution	GNE7-51484-CN	1/6/2018
Sulfamic Acid	RICCA 1705K24	2/29/2020
Sulfuric Ac id	FISHER 183220	8/12/2023
Sodium Hydroxide 1.25N/0.25N	GNE9-55940-CN	3/17/2019
Cadmium Carbonate, Powder	MKBF5367V	3/14/2022
Micro Distillation tubes	env.810106-8285-ds	NA
.95 NaOH	GNE9-55941-CN	3/17/2019
Cyanide Stock Solution A - spiking/standards	GNE10-56161-CN	4/11/2019
Cyanide Stock Solution B- externals	gne8-55492-cn	2/6/2019
Lead Acetate Test Paper	FISHER : 12/8/2016	12/8/2021
pH paper - range 12.5 to 14	HYDRION : 210114B	4/15/2019
pH paper - range 1 to 12	HYDRION : 223016	9/15/2019
Benzalrthodanine	GNE8-55644-CN	1/2/2019

Reason codes for data corrections: 1-reviewer error correction: 2 s

Form: GN087A-28
Rev. Date: 03/19/13

11.1 11

SGS

REACTIVITY DISTILLATION LOG (SOILS)

Method: SW846 Chapter 7

SREAC / CREAC
GP16831 / GP16832

Batch ID:_____

Autopipette ID: Class A

Balance ID:_____B-27_____

Bottle #	Sample ID	Initial Volume (g)	Final Volume (ml)	Start Time	End Time	Date	QC ID	Product (SREAC, CREAC, or both)	Check when spike added	Spike Amounts and Comments including Spike Lots	Analyst
	MB1	10	500	10:53	11:23	10/24/18	GP -MB	both			CZD
	B1						GP -B	CREAC	✓	10ml of 100ppm	
	B1						GP -B	SREAC	✓	10ml of 537ppm	
3	JC75718-9 (SI)	10.04					GP -S	SREAC	✓	10ml of 537 ppm	
3	(DI)	10.01					GP -D	both			
3	(DC)	9.99									
2	JC75718-10	10.01									
1	JC75718-11	9.98									
2	JC75718-12	10.04									
2	JC75718-13	9.97									
1	JC75718-14	9.99									
2	JC75718-15	9.99		12:46	13:16						
2	JC75718-16	10.01									
3	JC75718-17	10.00									
3	JC75718-18	9.98									
3	JC75718-19	10.01									
1	JC75718-20	10.04									
1	JC75718-21	10.01									
1	JC76268-1	10.04									
1	JC76268-2	9.98									

Comments: Creac Spike: 20 ml of 1000ppm cyanide stock diluted up to 200ml w/ 0.25N NaOH
Sreac Spike: 2.0g of Sodium Sulfide Nonahydrate diluted up to 500ml w/ DI H20

QC Reviewer: _____ Date: _____

Form: GN282-01b
Rev. Date: 02/28/13

SGS

Reagent Information Log - CREAC and SREAC Distillations

GP Numbers:

Reagent	Reagent # or Manufacturer/Lot	Expiration date	Standardization Date
Cyanide Spike Solution	GNE7-55353-CN	1/23/2019	10/14/2018
Sulfide Spike Solution	FISHER # 161566	4/22/2022	NA
Sulfuric Acid, 0.010 N	GNE10-56257-REAC	4/23/2019	NA
Sodium Hydroxide, 0.25 N	GNE10-56258-REAC	4/23/2019	NA
Sodium Hydroxide, 0.25 N	GNE10-56258-REAC	4/23/2019	NA

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Form: GN087A-64
Rev. Date: 3/12/04

AQUATECH LABORATORIES

CYANIDE DISTILLATION LOG (SOILS- MICRO DISTILLATION)

Method: SW846 9012B M

Batch ID: GP16854

Autopipette ID: 43

Balance ID: ~~N/A~~ B27 #4Bm

Bottle #	Block #	Sample ID	pH	S2-	Add (a)	Initial Weight (g)	Final Volume (ml)	Temp. in Deg. C (b)	Start Time	End Time	Date	QC ID	Spike Amounts and Comments	Spike Lot	Analyst
	2	MB1	12	–	✓	0.25	6	120	14:40	15:10	10/25/18	GP -MB1			BM
		B1				0.25						GP -B1	0.10 ml of 5.0 mg/l (c)		
2		S1 JC76263-5				0.38						GP -S1	0.10 ml of 5.0 mg/l	/	
2		D1			#4Bm	~~0.38~~						GP -S2	0.10 ml of 5.0 mg/l	/	
2		JC76263-3			✓	0.30						GP -D1			
2		-4				0.30									
3		-5				0.26									
		JC76508-1				0.28									
2		JC75963-1				0.27									
2		JC75968-2				0.35									
2		-4				0.27									
2		JC76005-1				0.32									
						0.32									

) Check if sulfamic acid was added.

) Record temp. from the LED readout on the distillation block. Temperatures verified with an external thermometer a min. of once per quarter.

) If the calibration curve is not distilled, then in addition to the blank spike, the analyst must also prepare two distilled standards using 0.12 ml of 1.0 mgl for one and 0.15 ml of 20.0 mg/l for the other.

omments:

C Reviewer:

Form: GN0012-04A

Rev. Date: 03/09/13

Date:

SGS

GENERAL CHEMISTRY STANDARD PREPARATION LOG

Product: CN

GN or GP Number: GP16854

Intermediate Standard Description	Stock used to prepare standard	Standardization Date	Stock concentration in mg/l	Stock volume used in ml (a)	Autopipet ID	Diluent (b)	Final Volume in ml	Final Conc. of Intermediate (mg/l)	Expiration Date (c)	Analyst	Date
5 PPM intermediate	GNE10-56161-CN	10/25/18	984	1.000	42	.25 N NaOH	200	5.00	11/1/18	BM	10/25/18
5 PPM ext.	GNE8-55492-CN	10/25/18	972	1	42	.25 N NaOH	200	5.00	11/1/18	BM	10/25/18

Standard Description	Intermediate or Stock used to prepare standard		Intermediate or Stock concentration in mg/l	Intermediate or Stock volume used in ml	Autopipet ID	Diluent (b)	Final Volume in ml	Final Conc. Of Standard (mg/l)		Analyst	Date
A	5.0 ppm CN STD		5.0	16.00	A	.25 N NaOH	100	0.80	10/21/18	bm	10/25/18
B	5.0 ppm CN STD		5.0	12.00	A	.25 N NaOH	100	0.60	10/21/18	bm	10/25/18
C	5.0 ppm CN STD		5.0	8.00	A	.25 N NaOH	100	0.40	10/21/18	bm	10/25/18
D	5.0 ppm CN STD		5.0	2.00	42	.25 N NaOH	100	0.10	10/21/18	bm	10/25/18
E	5.0 ppm CN STD		5.0	0.40	42	.25 N NaOH	100	0.02	10/21/18	bm	10/25/18
F	5.0 ppm CN STD		5.0	0.20	42	.25 N NaOH	100	0.01	10/21/18	bm	10/25/18
Undistilled ICV Int.	5 PPM EXT STD	10/25/18	0.3	6.00	42	.25 N NaOH	100	0.30	10/21/18	bm	10/25/18
Undistilled CCV Int.	5.0 ppm CN STD	10/25/18	0.4	8.00	42	.25 N NaOH	100	0.40	10/21/18	bm	10/25/18

(a) Concentration will change with standardization concentration.

(b) Diluent reagent reference number: SEE ATTACHED Expiration Date: SEE ATTACHED

(c) Standards must be made fresh (daily) before distillation. After distillation, they may be held under refrigeration for a maxiumum of 28 days before analysis.

*If Class A glass pipets are used, enter an A. For balances or autopipets, then enter the approcpriate Accutest ID number.

Reason codes for data corrections: 1-reviewer error correction; 2-transciption error; 3-computer error; 4-analyst error

Form: GN193-02

Rev. Date:1/6/2014

SGS

Reagent Information Log - CN - Distillation

GP Numbers: GP16854

Reagent	Reagent # or Manufacturer/Lot	Expiration date
Silver Nitrate Solution 0.0192 N	GNE6-55074-CN	12/23/2018
Magnesium Chloride Solution	GNE7-51484-CN	1/6/2018
Sulfamic Acid	RICCA 1705K24	2/29/2020
Sulfuric Ac id	FISHER 183220	8/12/2023
Sodium Hydroxide 1.25N/0.25N	GNE9-55940-CN	3/17/2019
Cadmium Carbonate, Powder	MKBF5367V	3/14/2022
Micro Distillation tubes	env.810106-8285-ds	NA
.95 NaOH	GNE9-55941-CN	3/17/2019
Cyanide Stock Solution A - spiking/standards	GNE10-56161-CN	4/11/2019
Cyanide Stock Solution B- externals	gne8-55492-cn	2/6/2019
Lead Acetate Test Paper	FISHER : 12/8/2016	12/8/2021
pH paper - range 12.5 to 14	HYDRION : 210114B	4/15/2019
pH paper - range 1 to 12	HYDRION : 223016	9/15/2019
Benzalrthodanine	GNE8-55644-CN	1/2/2019

Reason codes for data corrections: 1-reviewer error correction: 2 s

Form: GN087A-28
Rev. Date: 03/19/13

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SGS

gn87511

Reagent Information Log - CN Lachat Autoanalyzer

GN Number:

Reagent	Reagent # or Manufacturer/Lot	Expiration date
Pyridine-Bartituric Acid Reagent	GNE10-56154-CN	4/11/2019
Chloramine-T	GNE10-56282-CN	10/31/2018
Phosphate Buffer Solution, 1.0 M	GNE10-56173-CN	4/12/2019
0.25 N Sodium Hydroxide Carrier Solution	GNE9-55982-CN	3/21/2019

Reason codes for data corrections: 1-reviewer error correction: 2-transcription error; 3-computer error; 4-analyst error

Form: GN087A-27
Rev. Date: 7/19/06

Misc. Raw Data

Raw Data

Methanol Prep Log

Vial Track #:	Lims ID:	Initial Tare Wt (g)	Total Wt (g)	Weight of Sample (g)	Date Prepared	Lot #:	Prep By	Vial Desc:	Comments
00940	JC76508-1.3	36.4400	46.3100	9.8700	10/24/2018			NAB	Preserved from intact in laboratory
10/15/2018-2459	JC76508-1.4	34.3500	39.9500	5.6000	10/24/2018 11:40:27 AM	n/a	jp	DI water	Preserved from intact in laboratory
10/15/2018-2460	JC76508-1.5	34.6900	39.8000	5.1100	10/24/2018 11:40:46 AM	n/a	jp	DI water	Preserved from intact in laboratory
10/15/2018-2439	JC76508-1.6	34.3000	39.8000	5.5000	10/25/2018 10:18:01 AM	n/a	jp	DI water	Preserved from intact in laboratory
10/15/2018-2440	JC76508-1.7	34.3400	40.1100	5.7700	10/25/2018 10:18:23 AM	n/a	jp	DI water	Preserved from intact in laboratory

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP Environment & Energy

Emersub 15, LLC, Ithaca, NY

31401545.001

SGS Job Number: JC88014

Sampling Date: 05/09/19

Report to:

WSP USA
7000 E. GENESEE STREET BUILDING D, 2ND FLOOR
FAYETTEVILLE, NY 13066
Amy.Romano@WSPGroup.com; Jeffrey.Baker@WSP.com

ATTN: Amy Romano

Total number of pages in report: 26

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Brian McGuire
General Manager

Client Service contact: Rocus Peters 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

WSP Environment & Energy

Job No: JC88014

Emersub 15, LLC, Ithaca, NY
Project No: 31401545.001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC88014-1	05/09/19	13:15	NW	05/11/19	AQ	Water	OUTFALL 004 051019
JC88014-2	05/09/19	13:15	NW	05/11/19	AQ	Water	OUTFALL 004 051019
JC88014-3	05/09/19	13:40	NW	05/11/19	AQ	Water	BD 18 WASTE

Summary of Hits

Job Number: JC88014
Account: WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Collected: 05/09/19

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC88014-1	**OUTFALL 004 051019**					
No hits reported in this sample.						
JC88014-2	**OUTFALL 004 051019**					
Mercury [a]		25.9	0.50	0.33	ng/l	EPA 1631 REV E
JC88014-3	**BD 18 WASTE**					
Lead		5.2	3.0	2.4	ug/l	EPA 200.7
Mercury [b]		10.4	5.0	3.3	ng/l	EPA 1631 REV E

(a) No field blank provided for low level mercury, as required by the method. Data may not be valid for regulatory use.
(b) No field blank provided for low level mercury, as required by the method. Data may not be valid for regulatory use. Elevated detection limite difficult sample matrix.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	OUTFALL 004 051019		
Lab Sample ID:	JC88014-1	**Date Sampled:**	05/09/19
Matrix:	AQ - Water	**Date Received:**	05/11/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.4 U	3.0	2.4	ug/l	1	05/14/19	05/15/19	EAL	EPA 200.7 [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA46714
(2) Prep QC Batch: MP15010

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	OUTFALL 004 051019		
Lab Sample ID:	JC88014-2	**Date Sampled:**	05/09/19
Matrix:	AQ - Water	**Date Received:**	05/11/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury [a]	25.9	0.50	0.33	ng/l	1	05/13/19	05/23/19	BP	EPA 1631 REV E [1]	EPA 1631 [2]

(1) Instrument QC Batch: MA46780
(2) Prep QC Batch: MP15279

(a) No field blank provided for low level mercury, as required by the method. Data may not be valid for regulatory use.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	BD 18 WASTE		
Lab Sample ID:	JC88014-3	**Date Sampled:**	05/09/19
Matrix:	AQ - Water	**Date Received:**	05/11/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	5.2	3.0	2.4	ug/l	1	05/14/19	05/15/19	EAL	EPA 200.7 [1]	EPA 200.7 [3]
Mercury [a]	10.4	5.0	3.3	ng/l	10	05/13/19	05/23/19	BP	EPA 1631 REV E [2]	EPA 1631 [4]

(1) Instrument QC Batch: MA46714
(2) Instrument QC Batch: MA46780
(3) Prep QC Batch: MP15010
(4) Prep QC Batch: MP15279

(a) No field blank provided for low level mercury, as required by the method. Data may not be valid for regulatory use. Elevated detection limite difficult sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Temp: 3.3C-P

JC 88014

CHAIN-OF-CUSTODY RECORD

FedEx Tracking: #1019 2800 6016

Page 1 of 1

No. 008828 WSP

WSP USA Office Address	7000 East Genesee St, Bd. D, 2nd Floor
Project Name	Energybis, LLC
WSP USA Contact Name	Amy Romano
Project Location	Ithaca NY
WSP USA Contact E-mail	Amy.Romano@wsp.com
Project Number & Task	31401545.001
WSP USA Contact Phone	315-655-3900
Sampler(s) Name(s)	Nate Winston
Sampler(s) Signature(s)	
Laboratory Name & Location	SGS NJ
Laboratory Project Manager	Rows Peters
Requested Turn-Around-Time	☒ Standard ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ ___ HR

Requested Analyses & Preservatives

		Collection Start* Date	Collection Start* Time	Collection Stop* Date	Collection Stop* Time	Number of Containers	HGLL1631	LEAD	Sample Comments
1 Outfall 004 051019	AQ	5/9/19	1425	5/10/19	1315	1		X	12-Hour Composite
2 Outfall 004 051019	AQ	—		5/10/19	1315	1	X		
3 BD 18 Waste	AQ	—		5/10/19	1340	2	X	X	

A 12
HGLL

Initial Assessment 3B PDS

Label Verification_____

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
	5/10/19	1800	FedEx			FedEx	1019 2800 6016
Relinquished By (Signature)	**Date**	**Time**	**Received By (Signature)**	**Date**	**Time**	**Number of Packages**	**Custody Seal Number(s)**
FedEx	5/11/19	10.45				1	

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

4.1

4

JC88014: Chain of Custody

Page 1 of 2

SGS Sample Receipt Summary

Job Number: JC88014 **Client:** WSP USA **Project:** EMERSUB 15, LLC, ITHACA, NY

Date / Time Received: 5/11/2019 10:45:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.3);

Cooler Temps (Corrected) °C: Cooler 1: (2.3);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 206717 pH 12+: 208717 Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

JC88014: Chain of Custody
Page 2 of 2

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15010
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/14/19

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	13	77		
Antimony	6.0	1.1	4.1		
Arsenic	3.0	1.2	2.5		
Barium	200	.2	17		
Beryllium	1.0	.1	.5		
Bismuth	20	1.8	4.8		
Boron	100	1.2	85		
Cadmium	3.0	.2	1.2		
Calcium	5000	3.7	130		
Chromium	10	.4	1.5		
Cobalt	50	.3	2.5		
Copper	10	1	4.1		
Iron	100	2.4	30		
Lead	3.0	1.5	2.4	-0.30	<3.0
Lithium	50	1.5	9.1		
Magnesium	5000	17	200		
Manganese	15	.1	2		
Molybdenum	20	.3	4.5		
Nickel	10	.3	1.8		
Phosphorus	50	2	14		
Potassium	10000	40	200		
Selenium	10	1.8	5.5		
Silicon	200	.9	130		
Silver	10	.5	2.4		
Sodium	10000	13	900		
Strontium	10	.2	1.6		
Sulfur	50	3.5	18		
Thallium	10	1.6	1.9		
Tin	50	.6	4.7		
Titanium	10	.6	1.9		
Tungsten	50	1.1	19		
Vanadium	50	.4	2.3		
Zinc	20	.2	8.5		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15010
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/14/19

Metal	RL	IDL	MDL	MB raw	final
Zirconium	10	.2	4.9		

Associated samples MP15010: JC88014-1, JC88014-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15010
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/14/19

Metal	JC87943-1 Original	MS	Spikelot MP200.7A	% Rec	QC Limits
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium					
Beryllium	anr				
Bismuth					
Boron					
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt					
Copper	anr				
Iron	anr				
Lead	0.0	2070	2000	103.5	70-130
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel	anr				
Phosphorus					
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Strontium					
Sulfur					
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc	anr				
Zirconium					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15010
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/14/19

Metal	JC87943-1 Original MS	Spikelot MP200.7A % Rec	QC Limits

Associated samples MP15010: JC88014-1, JC88014-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15010 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/14/19

Metal	JC87943-1 Original	MSD	Spikelot MP200.7A	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium						
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron	anr					
Lead	0.0	2060	2000	103.0	0.5	10
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc	anr					
Zirconium						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15010
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/14/19

Metal	JC87943-1 Original MSD	Spikelot MP200.7A % Rec	MSD RPD	QC Limit

Associated samples MP15010: JC88014-1, JC88014-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15010
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/14/19

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium				
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	2030	2000	101.5	85-115
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc	anr			

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15010
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/14/19

Metal	BSP Result	Spikelot MP200.7A % Rec	QC Limits
Zirconium			

Associated samples MP15010: JC88014-1, JC88014-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15010
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/14/19

Metal	JC87943-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium				
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc	anr			
Zirconium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15010 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/14/19

Metal	JC87943-1 Original SDL 1:5	%DIF	QC Limits

Associated samples MP15010: JC88014-1, JC88014-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15279
Matrix Type: AQUEOUS

Methods: EPA 1631 REV E
Units: ng/l

Prep Date: 05/13/19

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.50	.086	.33	-0.11	<0.50

Associated samples MP15279: JC88014-2, JC88014-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15279
Matrix Type: AQUEOUS

Methods: EPA 1631 REV E
Units: ng/l

Prep Date: 05/22/19

Metal	JC88014-2 Original	MS	Spikelot HGLL1	% Rec	QC Limits
Mercury	25.9	30.2	5	86.0	71-125

Associated samples MP15279: JC88014-2, JC88014-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15279
Matrix Type: AQUEOUS

Methods: EPA 1631 REV E
Units: ng/l

Prep Date: 05/22/19

Metal	JC88014-2 Original	MSD	Spikelot HGLL1	% Rec	MSD RPD	QC Limit
Mercury	25.9	30.7	5	96.0	1.6	24

Associated samples MP15279: JC88014-2, JC88014-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC88014
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP15279
Matrix Type: AQUEOUS

Methods: EPA 1631 REV E
Units: ng/l

Prep Date: 05/22/19

Metal	LCS Result	Spikelot HGLL1	% Rec	QC Limits
Mercury	4.7	5	94.0	77-123

Associated samples MP15279: JC88014-2, JC88014-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP Environment & Energy

Emersub 15, LLC, Ithaca, NY

31401545.001/TASK 02

SGS Job Number: JC96272

Sampling Date: 10/03/19

Report to:

WSP USA
7000 E. GENESEE STREET BUILDING D, 2ND FLOOR
FAYETTEVILLE, NY 13066
Amy.Romano@WSPGroup.com; Jeffrey.Baker@WSP.com

ATTN: Amy Romano

Total number of pages in report: 133

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Laura Degenhardt
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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9.1: Duplicate Results Summary 133

SGS North America Inc.

Sample Summary

WSP Environment & Energy

Job No: JC96272

Emersub 15, LLC, Ithaca, NY
Project No: 31401545.001/TASK 02

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC96272-1	10/03/19	11:00	NW	10/04/19	AQ	Water	MH-A6 PURGE WATER
JC96272-2	10/03/19	11:30	NW	10/04/19	AQ	Water	MH-22 PURGE WATER
JC96272-3	10/03/19	12:00	NW	10/04/19	SO	Solid	MH-22 SOLIDS
JC96272-4	10/03/19	12:30	NW	10/04/19	AQ	Water	BD 18 SEWER
JC96272-5	10/03/19	13:00	NW	10/04/19	AQ	Water	MH-42A/B
JC96272-6	10/03/19	14:00	NW	10/04/19	SO	Solid	UTILITY SUMP SOLIDS
JC96272-7	10/03/19	14:30	NW	10/04/19	AQ	Water	UTILITY SUMP LIQUIDS
JC96272-8	10/03/19	15:00	NW	10/04/19	AQ	Water	DECON WATER

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: JC96272
Account: WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Collected: 10/03/19

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC96272-1	**MH-A6 PURGE WATER**					
Corrosivity as pH		6.54 NC			su	SW846 9040C
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010A/ASTM D93
Barium		4.6	1.0	0.067	mg/l	SW846 6010D
JC96272-2	**MH-22 PURGE WATER**					
Corrosivity as pH		7.19 NC			su	SW846 9040C
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010A/ASTM D93
Barium		1.6	1.0	0.067	mg/l	SW846 6010D
JC96272-3	**MH-22 SOLIDS**					
Aroclor 1254		591	47	25	ug/kg	SW846 8082A
Corrosivity as pH		7.15 NC			su	SW846 9045D
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010A/ASTM D93
Arsenic		0.025 J	0.50	0.014	mg/l	SW846 6010D
Barium		1.7	1.0	0.067	mg/l	SW846 6010D
JC96272-4	**BD 18 SEWER**					
Corrosivity as pH		6.72 NC			su	SW846 9040C
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010A/ASTM D93
Barium		0.12 J	1.0	0.067	mg/l	SW846 6010D
JC96272-5	**MH-42A/B**					
Corrosivity as pH		8.18 NC			su	SW846 9040C
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010A/ASTM D93
Chromium		0.010 J	0.050	0.010	mg/l	SW846 6010D
JC96272-6	**UTILITY SUMP SOLIDS**					
Aroclor 1254 [a]		129	40	21	ug/kg	SW846 8082A
Corrosivity as pH		7.33 NC			su	SW846 9045D
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010A/ASTM D93
Barium		0.94 J	1.0	0.067	mg/l	SW846 6010D
Lead		0.011 J	0.50	0.0090	mg/l	SW846 6010D
JC96272-7	**UTILITY SUMP LIQUIDS**					
Aroclor 1242		160	5.6	2.6	ug/l	SW846 8082A
Corrosivity as pH		7.33 NC			su	SW846 9040C
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010A/ASTM D93

Summary of Hits

Job Number: JC96272
Account: WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY
Collected: 10/03/19

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Barium		0.16 J	1.0	0.067	mg/l	SW846 6010D
JC96272-8	**DECON WATER**					
Corrosivity as pH		7.71 NC			su	SW846 9040C
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010A/ASTM D93
Arsenic		0.017 J	0.50	0.014	mg/l	SW846 6010D
Barium		0.56 J	1.0	0.067	mg/l	SW846 6010D
Chromium		0.031 J	0.050	0.010	mg/l	SW846 6010D
Lead		0.053 J	0.50	0.0090	mg/l	SW846 6010D

(a) More than 40 % RPD for detected concentrations between the two GC columns.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MH-A6 PURGE WATER		
Lab Sample ID:	JC96272-1	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D149799.D	5	10/16/19 18:28	EH	10/09/19 19:45	GP24253	V3D6402
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.0050	0.0025	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%
17060-07-0	1,2-Dichloroethane-D4	101%		64-135%
2037-26-5	Toluene-D8	100%		76-117%
460-00-4	4-Bromofluorobenzene	101%		72-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-A6 PURGE WATER		
Lab Sample ID:	JC96272-1	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E108578.D	1	10/15/19 16:26	AR	10/11/19 22:00	OP23279	E3E4881
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-88%
4165-62-2	Phenol-d5	20%		10-110%
118-79-6	2,4,6-Tribromophenol	118%		39-149%
4165-60-0	Nitrobenzene-d5	59%		32-128%
321-60-8	2-Fluorobiphenyl	65%		35-119%
1718-51-0	Terphenyl-d14	73%		10-126%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-A6 PURGE WATER		
Lab Sample ID:	JC96272-1	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G185305.D	1	10/11/19 20:24	TR	10/11/19 06:30	OP23248	G2G4794
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	0.098	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	0.11	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	0.063	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	0.21	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	0.076	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	0.097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	143%		11-166%
877-09-8	Tetrachloro-m-xylene	96%		11-166%
2051-24-3	Decachlorobiphenyl	23%		10-150%
2051-24-3	Decachlorobiphenyl	27%		10-150%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-A6 PURGE WATER		
Lab Sample ID:	JC96272-1	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.014 U	D004	5.0	0.50	0.014	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Barium	4.6	D005	100	1.0	0.067	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Cadmium	0.0050 U	D006	1.0	0.020	0.0050	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Chromium	0.010 U	D007	5.0	0.050	0.010	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Lead	0.0090 U	D008	5.0	0.50	0.0090	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Mercury	0.000095 U	D009	0.20	0.00020	0.000095	mg/l	1	10/10/19	10/10/19	LL	SW846 7470A [1]
Selenium	0.025 U	D010	1.0	0.50	0.025	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Silver	0.0095 U	D011	5.0	0.050	0.0095	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]

(1) Instrument QC Batch: MA47602
(2) Instrument QC Batch: MA47606
(3) Prep QC Batch: MP17789
(4) Prep QC Batch: MP17806

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MH-A6 PURGE WATER		
Lab Sample ID:	JC96272-1	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	6.54 NC		su	1	10/17/19 11:43	JW	SW846 9040C
Ignitability (Flashpoint)	> 200		Deg. F	1	10/17/19 14:34	RI	SW846 1010A/ASTM D93

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MH-22 PURGE WATER		
Lab Sample ID:	JC96272-2	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D149796.D	5	10/16/19 17:12	EH	10/09/19 19:45	GP24253	V3D6402
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.0050	0.0025	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	103%		64-135%
2037-26-5	Toluene-D8	101%		76-117%
460-00-4	4-Bromofluorobenzene	99%		72-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-22 PURGE WATER		
Lab Sample ID:	JC96272-2	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E108579.D	1	10/15/19 16:51	AR	10/11/19 22:00	OP23279	E3E4881
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	20%		14-88%
4165-62-2	Phenol-d5	12%		10-110%
118-79-6	2,4,6-Tribromophenol	85%		39-149%
4165-60-0	Nitrobenzene-d5	41%		32-128%
321-60-8	2-Fluorobiphenyl	47%		35-119%
1718-51-0	Terphenyl-d14	57%		10-126%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-22 PURGE WATER		
Lab Sample ID:	JC96272-2	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G185306.D	1	10/11/19 20:41	TR	10/11/19 06:30	OP23248	G2G4794
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	0.097	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	0.11	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	0.062	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	0.075	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	0.086	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	0.096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		11-166%
877-09-8	Tetrachloro-m-xylene	80%		11-166%
2051-24-3	Decachlorobiphenyl	21%		10-150%
2051-24-3	Decachlorobiphenyl	25%		10-150%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-22 PURGE WATER		
Lab Sample ID:	JC96272-2	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.014 U	D004	5.0	0.50	0.014	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Barium	1.6	D005	100	1.0	0.067	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Cadmium	0.0050 U	D006	1.0	0.020	0.0050	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Chromium	0.010 U	D007	5.0	0.050	0.010	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Lead	0.0090 U	D008	5.0	0.50	0.0090	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Mercury	0.000095 U	D009	0.20	0.00020	0.000095	mg/l	1	10/10/19	10/10/19	LL	SW846 7470A [1]
Selenium	0.025 U	D010	1.0	0.50	0.025	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Silver	0.0095 U	D011	5.0	0.050	0.0095	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]

(1) Instrument QC Batch: MA47602
(2) Instrument QC Batch: MA47606
(3) Prep QC Batch: MP17789
(4) Prep QC Batch: MP17806

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MH-22 PURGE WATER		
Lab Sample ID:	JC96272-2	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	7.19 NC		su	1	10/17/19 11:45	JW	SW846 9040C
Ignitability (Flashpoint)	> 200		Deg. F	1	10/17/19 14:34	RI	SW846 1010A/ASTM D93

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MH-22 SOLIDS		
Lab Sample ID:	JC96272-3	**Date Sampled:**	10/03/19
Matrix:	SO - Solid	**Date Received:**	10/04/19
Method:	SW846 8260C SW846 1311	**Percent Solids:**	67.2
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D149844.D	5	10/18/19 00:23	EH	10/16/19 16:00	GP24414	V3D6404
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.0050	0.0025	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-120%
17060-07-0	1,2-Dichloroethane-D4	101%		64-135%
2037-26-5	Toluene-D8	101%		76-117%
460-00-4	4-Bromofluorobenzene	99%		72-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-22 SOLIDS		
Lab Sample ID:	JC96272-3	**Date Sampled:**	10/03/19
Matrix:	SO - Solid	**Date Received:**	10/04/19
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	67.2
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E108580.D	1	10/15/19 17:17	AR	10/11/19 22:00	OP23278	E3E4881
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-88%
4165-62-2	Phenol-d5	21%		10-110%
118-79-6	2,4,6-Tribromophenol	123%		39-149%
4165-60-0	Nitrobenzene-d5	60%		32-128%
321-60-8	2-Fluorobiphenyl	67%		35-119%
1718-51-0	Terphenyl-d14	67%		10-126%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-22 SOLIDS		
Lab Sample ID:	JC96272-3	**Date Sampled:**	10/03/19
Matrix:	SO - Solid	**Date Received:**	10/04/19
Method:	SW846 8082A SW846 3546	**Percent Solids:**	67.2
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G91851.D	1	10/15/19 14:36	CP	10/11/19 16:20	OP23243	G5G2236
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	47	22	ug/kg	
11104-28-2	Aroclor 1221	ND	47	29	ug/kg	
11141-16-5	Aroclor 1232	ND	47	30	ug/kg	
53469-21-9	Aroclor 1242	ND	47	19	ug/kg	
12672-29-6	Aroclor 1248	ND	47	42	ug/kg	
11097-69-1	Aroclor 1254	591	47	25	ug/kg	
11096-82-5	Aroclor 1260	ND	47	20	ug/kg	
11100-14-4	Aroclor 1268	ND	47	20	ug/kg	
37324-23-5	Aroclor 1262	ND	47	31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	46%		31-146%
877-09-8	Tetrachloro-m-xylene	56%		31-146%
2051-24-3	Decachlorobiphenyl	37%		17-164%
2051-24-3	Decachlorobiphenyl	53%		17-164%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-22 SOLIDS		
Lab Sample ID:	JC96272-3	**Date Sampled:**	10/03/19
Matrix:	SO - Solid	**Date Received:**	10/04/19
		Percent Solids:	67.2
Project:	Emersub 15, LLC, Ithaca, NY		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.025 J	D004	5.0	0.50	0.014	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]
Barium	1.7	D005	100	1.0	0.067	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]
Cadmium	0.0050 U	D006	1.0	0.020	0.0050	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]
Chromium	0.010 U	D007	5.0	0.050	0.010	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]
Lead	0.0090 U	D008	5.0	0.50	0.0090	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]
Mercury	0.000095 U	D009	0.20	0.00020	0.000095	mg/l	1	10/11/19	10/11/19	LL	SW846 7470A [1]
Selenium	0.025 U	D010	1.0	0.50	0.025	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]
Silver	0.0095 U	D011	5.0	0.050	0.0095	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]

(1) Instrument QC Batch: MA47609
(2) Instrument QC Batch: MA47615
(3) Prep QC Batch: MP17814
(4) Prep QC Batch: MP17818

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MH-22 SOLIDS		
Lab Sample ID:	JC96272-3	**Date Sampled:**	10/03/19
Matrix:	SO - Solid	**Date Received:**	10/04/19
		Percent Solids:	67.2
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	7.15 NC		su	1	10/17/19 15:24	JW	SW846 9045D
Ignitability (Flashpoint)	> 200		Deg. F	1	10/17/19 16:35	RI	SW846 1010A/ASTM D93
Solids, Percent	67.2		%	1	10/24/19 11:45	RC	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BD 18 SEWER		
Lab Sample ID:	JC96272-4	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D149797.D	5	10/16/19 17:38	EH	10/09/19 19:45	GP24253	V3D6402
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.0050	0.0025	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%
17060-07-0	1,2-Dichloroethane-D4	102%		64-135%
2037-26-5	Toluene-D8	100%		76-117%
460-00-4	4-Bromofluorobenzene	98%		72-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	BD 18 SEWER		
Lab Sample ID:	JC96272-4	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E108581.D	1	10/15/19 17:42	AR	10/11/19 22:00	OP23279	E3E4881
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	19%		14-88%
4165-62-2	Phenol-d5	12%		10-110%
118-79-6	2,4,6-Tribromophenol	86%		39-149%
4165-60-0	Nitrobenzene-d5	42%		32-128%
321-60-8	2-Fluorobiphenyl	47%		35-119%
1718-51-0	Terphenyl-d14	58%		10-126%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BD 18 SEWER		
Lab Sample ID:	JC96272-4	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G185372.D	1	10/14/19 14:37	CP	10/11/19 06:30	OP23248	G2G4795
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	0.096	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	0.11	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	0.062	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	0.075	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	0.085	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	0.095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		11-166%
877-09-8	Tetrachloro-m-xylene	78%		11-166%
2051-24-3	Decachlorobiphenyl	27%		10-150%
2051-24-3	Decachlorobiphenyl	37%		10-150%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BD 18 SEWER		
Lab Sample ID:	JC96272-4	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.014 U	D004	5.0	0.50	0.014	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Barium	0.12 J	D005	100	1.0	0.067	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Cadmium	0.0050 U	D006	1.0	0.020	0.0050	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Chromium	0.010 U	D007	5.0	0.050	0.010	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Lead	0.0090 U	D008	5.0	0.50	0.0090	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Mercury	0.000095 U	D009	0.20	0.00020	0.000095	mg/l	1	10/10/19	10/10/19	LL	SW846 7470A [1]
Selenium	0.025 U	D010	1.0	0.50	0.025	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Silver	0.0095 U	D011	5.0	0.050	0.0095	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]

(1) Instrument QC Batch: MA47602
(2) Instrument QC Batch: MA47606
(3) Prep QC Batch: MP17789
(4) Prep QC Batch: MP17806

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	BD 18 SEWER		
Lab Sample ID:	JC96272-4	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	6.72 NC		su	1	10/17/19 11:47	JW	SW846 9040C
Ignitability (Flashpoint)	> 200		Deg. F	1	10/17/19 14:34	RI	SW846 1010A/ASTM D93

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MH-42A/B		
Lab Sample ID:	JC96272-5	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D149798.D	5	10/16/19 18:03	EH	10/09/19 19:45	GP24253	V3D6402
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.0050	0.0025	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		76-120%
17060-07-0	1,2-Dichloroethane-D4	100%		64-135%
2037-26-5	Toluene-D8	101%		76-117%
460-00-4	4-Bromofluorobenzene	99%		72-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-42A/B		
Lab Sample ID:	JC96272-5	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E108582.D	1	10/15/19 18:07	AR	10/11/19 22:00	OP23279	E3E4881
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		14-88%
4165-62-2	Phenol-d5	17%		10-110%
118-79-6	2,4,6-Tribromophenol	120%		39-149%
4165-60-0	Nitrobenzene-d5	55%		32-128%
321-60-8	2-Fluorobiphenyl	65%		35-119%
1718-51-0	Terphenyl-d14	68%		10-126%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-42A/B		
Lab Sample ID:	JC96272-5	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G185308.D	1	10/11/19 21:15	TR	10/11/19 06:30	OP23248	G2G4794
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	0.099	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	0.12	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	0.064	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	0.21	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	0.077	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	0.097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	48%		11-166%
877-09-8	Tetrachloro-m-xylene	43%		11-166%
2051-24-3	Decachlorobiphenyl	13%		10-150%
2051-24-3	Decachlorobiphenyl	12%		10-150%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MH-42A/B		
Lab Sample ID:	JC96272-5	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.014 U	D004	5.0	0.50	0.014	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Barium	0.067 U	D005	100	1.0	0.067	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Cadmium	0.0050 U	D006	1.0	0.020	0.0050	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Chromium	0.010 J	D007	5.0	0.050	0.010	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Lead	0.0090 U	D008	5.0	0.50	0.0090	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Mercury	0.000095 U	D009	0.20	0.00020	0.000095	mg/l	1	10/10/19	10/10/19	LL	SW846 7470A [1]
Selenium	0.025 U	D010	1.0	0.50	0.025	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Silver	0.0095 U	D011	5.0	0.050	0.0095	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]

(1) Instrument QC Batch: MA47602
(2) Instrument QC Batch: MA47606
(3) Prep QC Batch: MP17789
(4) Prep QC Batch: MP17806

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MH-42A/B		
Lab Sample ID:	JC96272-5	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	8.18 NC		su	1	10/17/19 11:51	JW	SW846 9040C
Ignitability (Flashpoint)	> 200		Deg. F	1	10/17/19 14:34	RI	SW846 1010A/ASTM D93

RL = Reporting Limit

Report of Analysis

Client Sample ID:	UTILITY SUMP SOLIDS		
Lab Sample ID:	JC96272-6	**Date Sampled:**	10/03/19
Matrix:	SO - Solid	**Date Received:**	10/04/19
Method:	SW846 8260C SW846 1311	**Percent Solids:**	79.6
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D149845.D	5	10/18/19 00:48	EH	10/16/19 16:00	GP24414	V3D6404
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.0050	0.0025	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%
17060-07-0	1,2-Dichloroethane-D4	101%		64-135%
2037-26-5	Toluene-D8	99%		76-117%
460-00-4	4-Bromofluorobenzene	99%		72-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UTILITY SUMP SOLIDS		
Lab Sample ID:	JC96272-6	**Date Sampled:**	10/03/19
Matrix:	SO - Solid	**Date Received:**	10/04/19
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	79.6
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E108583.D	1	10/15/19 18:32	AR	10/11/19 22:00	OP23278	E3E4881
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		14-88%
4165-62-2	Phenol-d5	18%		10-110%
118-79-6	2,4,6-Tribromophenol	120%		39-149%
4165-60-0	Nitrobenzene-d5	56%		32-128%
321-60-8	2-Fluorobiphenyl	63%		35-119%
1718-51-0	Terphenyl-d14	72%		10-126%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UTILITY SUMP SOLIDS		
Lab Sample ID:	JC96272-6	**Date Sampled:**	10/03/19
Matrix:	SO - Solid	**Date Received:**	10/04/19
Method:	SW846 8082A SW846 3546	**Percent Solids:**	79.6
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G91808.D	1	10/14/19 14:47	CP	10/11/19 16:20	OP23243	G5G2236
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	18	ug/kg	
11104-28-2	Aroclor 1221	ND	40	24	ug/kg	
11141-16-5	Aroclor 1232	ND	40	25	ug/kg	
53469-21-9	Aroclor 1242	ND	40	16	ug/kg	
12672-29-6	Aroclor 1248	ND	40	35	ug/kg	
11097-69-1	Aroclor 1254 [a]	129	40	21	ug/kg	
11096-82-5	Aroclor 1260	ND	40	17	ug/kg	
11100-14-4	Aroclor 1268	ND	40	17	ug/kg	
37324-23-5	Aroclor 1262	ND	40	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	61%		31-146%
877-09-8	Tetrachloro-m-xylene	40%		31-146%
2051-24-3	Decachlorobiphenyl	31%		17-164%
2051-24-3	Decachlorobiphenyl	25%		17-164%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UTILITY SUMP SOLIDS		
Lab Sample ID:	JC96272-6	**Date Sampled:**	10/03/19
Matrix:	SO - Solid	**Date Received:**	10/04/19
		Percent Solids:	79.6
Project:	Emersub 15, LLC, Ithaca, NY		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.014 U	D004	5.0	0.50	0.014	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]
Barium	0.94 J	D005	100	1.0	0.067	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]
Cadmium	0.0050 U	D006	1.0	0.020	0.0050	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]
Chromium	0.010 U	D007	5.0	0.050	0.010	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]
Lead	0.011 J	D008	5.0	0.50	0.0090	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]
Mercury	0.000095 U	D009	0.20	0.00020	0.000095	mg/l	1	10/11/19	10/11/19	LL	SW846 7470A [1]
Selenium	0.025 U	D010	1.0	0.50	0.025	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]
Silver	0.0095 U	D011	5.0	0.050	0.0095	mg/l	5	10/11/19	10/12/19	ND	SW846 6010D [2]

(1) Instrument QC Batch: MA47609
(2) Instrument QC Batch: MA47615
(3) Prep QC Batch: MP17814
(4) Prep QC Batch: MP17818

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	UTILITY SUMP SOLIDS		
Lab Sample ID:	JC96272-6	**Date Sampled:**	10/03/19
Matrix:	SO - Solid	**Date Received:**	10/04/19
		Percent Solids:	79.6
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	7.33 NC		su	1	10/17/19 15:27	JW	SW846 9045D
Ignitability (Flashpoint)	> 200		Deg. F	1	10/17/19 16:35	RI	SW846 1010A/ASTM D93
Solids, Percent	79.6		%	1	10/24/19 11:45	RC	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Client Sample ID:	UTILITY SUMP LIQUIDS		
Lab Sample ID:	JC96272-7	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D149785.D	5	10/16/19 11:27	EH	10/09/19 19:45	GP24253	V3D6402
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.0050	0.0025	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-120%
17060-07-0	1,2-Dichloroethane-D4	98%		64-135%
2037-26-5	Toluene-D8	100%		76-117%
460-00-4	4-Bromofluorobenzene	98%		72-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UTILITY SUMP LIQUIDS		
Lab Sample ID:	JC96272-7	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E108584.D	1	10/15/19 18:58	AR	10/11/19 22:00	OP23279	E3E4881
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%		14-88%
4165-62-2	Phenol-d5	17%		10-110%
118-79-6	2,4,6-Tribromophenol	94%		39-149%
4165-60-0	Nitrobenzene-d5	52%		32-128%
321-60-8	2-Fluorobiphenyl	58%		35-119%
1718-51-0	Terphenyl-d14	43%		10-126%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UTILITY SUMP LIQUIDS		
Lab Sample ID:	JC96272-7	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G185432.D	10	10/15/19 08:24	TR	10/11/19 06:30	OP23248	G2G4798
Run #2							

	Initial Volume	Final Volume
Run #1	890 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	5.6	2.2	ug/l	
11104-28-2	Aroclor 1221	ND	5.6	4.7	ug/l	
11141-16-5	Aroclor 1232	ND	5.6	2.9	ug/l	
53469-21-9	Aroclor 1242	160	5.6	2.6	ug/l	
12672-29-6	Aroclor 1248	ND	5.6	1.4	ug/l	
11097-69-1	Aroclor 1254	ND	5.6	4.7	ug/l	
11096-82-5	Aroclor 1260	ND	5.6	1.7	ug/l	
11100-14-4	Aroclor 1268	ND	5.6	1.9	ug/l	
37324-23-5	Aroclor 1262	ND	5.6	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	376% [a]		11-166%
877-09-8	Tetrachloro-m-xylene	76%		11-166%
2051-24-3	Decachlorobiphenyl	40%		10-150%
2051-24-3	Decachlorobiphenyl	33%		10-150%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UTILITY SUMP LIQUIDS		
Lab Sample ID:	JC96272-7	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.014 U	D004	5.0	0.50	0.014	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Barium	0.16 J	D005	100	1.0	0.067	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Cadmium	0.0050 U	D006	1.0	0.020	0.0050	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Chromium	0.010 U	D007	5.0	0.050	0.010	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Lead	0.0090 U	D008	5.0	0.50	0.0090	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Mercury	0.000095 U	D009	0.20	0.00020	0.000095	mg/l	1	10/10/19	10/10/19	LL	SW846 7470A [1]
Selenium	0.025 U	D010	1.0	0.50	0.025	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]
Silver	0.0095 U	D011	5.0	0.050	0.0095	mg/l	5	10/09/19	10/10/19	ND	SW846 6010D [2]

(1) Instrument QC Batch: MA47602
(2) Instrument QC Batch: MA47606
(3) Prep QC Batch: MP17789
(4) Prep QC Batch: MP17806

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	UTILITY SUMP LIQUIDS		
Lab Sample ID:	JC96272-7	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	7.33 NC		su	1	10/17/19 11:54	JW	SW846 9040C
Ignitability (Flashpoint)	> 200		Deg. F	1	10/17/19 14:34	RI	SW846 1010A/ASTM D93

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DECON WATER		
Lab Sample ID:	JC96272-8	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D149800.D	5	10/16/19 18:54	EH	10/09/19 19:45	GP24253	V3D6402
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.0050	0.0025	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-120%
17060-07-0	1,2-Dichloroethane-D4	102%		64-135%
2037-26-5	Toluene-D8	101%		76-117%
460-00-4	4-Bromofluorobenzene	98%		72-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DECON WATER		
Lab Sample ID:	JC96272-8	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E108585.D	1	10/15/19 19:23	AR	10/11/19 22:00	OP23279	E3E4881
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%		14-88%
4165-62-2	Phenol-d5	17%		10-110%
118-79-6	2,4,6-Tribromophenol	84%		39-149%
4165-60-0	Nitrobenzene-d5	52%		32-128%
321-60-8	2-Fluorobiphenyl	54%		35-119%
1718-51-0	Terphenyl-d14	45%		10-126%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DECON WATER		
Lab Sample ID:	JC96272-8	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G185857.D	1	10/23/19 16:44	TR	10/23/19 07:45	OP23495	G2G4805
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	0.096	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	0.11	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	0.062	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	0.075	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	0.085	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	0.095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	373% [a]		11-166%
877-09-8	Tetrachloro-m-xylene	49%		11-166%
2051-24-3	Decachlorobiphenyl	55%		10-150%
2051-24-3	Decachlorobiphenyl	43%		10-150%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DECON WATER		
Lab Sample ID:	JC96272-8	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.017 J	D004	5.0	0.50	0.014	mg/l	1	10/09/19	10/10/19	ND	SW846 6010D [2]
Barium	0.56 J	D005	100	1.0	0.067	mg/l	1	10/09/19	10/10/19	ND	SW846 6010D [2]
Cadmium	0.0050 U	D006	1.0	0.020	0.0050	mg/l	1	10/09/19	10/10/19	ND	SW846 6010D [2]
Chromium	0.031 J	D007	5.0	0.050	0.010	mg/l	1	10/09/19	10/10/19	ND	SW846 6010D [2]
Lead	0.053 J	D008	5.0	0.50	0.0090	mg/l	1	10/09/19	10/10/19	ND	SW846 6010D [2]
Mercury [a]	0.0029 U	D009	0.20	0.0060	0.0029	mg/l	1	10/10/19	10/10/19	LL	SW846 7470A [1]
Selenium	0.025 U	D010	1.0	0.50	0.025	mg/l	1	10/09/19	10/10/19	ND	SW846 6010D [2]
Silver	0.0095 U	D011	5.0	0.050	0.0095	mg/l	1	10/09/19	10/10/19	ND	SW846 6010D [2]

(1) Instrument QC Batch: MA47602
(2) Instrument QC Batch: MA47606
(3) Prep QC Batch: MP17789
(4) Prep QC Batch: MP17806

(a) Elevated sample detection limit due to difficult sample matrix.

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DECON WATER		
Lab Sample ID:	JC96272-8	**Date Sampled:**	10/03/19
Matrix:	AQ - Water	**Date Received:**	10/04/19
		Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	7.71 NC		su	1	10/17/19 11:57	JW	SW846 9040C
Ignitability (Flashpoint)	> 200		Deg. F	1	10/17/19 14:34	RI	SW846 1010A/ASTM D93

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Ignitability (Flashpoint)		SW846 1010A/ASTM D93	AQ	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte/method not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

WW, SOL

CHAIN-OF-CUSTODY RECORD

JC96272 Page 1 of 1

PN

No. 008857 WSP

WSP USA Office Address	7000 E GENESEE ST BD D 2ND FLOOR FAYETTEVILLE NY
Project Name	EMERSUB15, LLC
WSP USA Contact Name	AMY ROMANO
Project Location	ITHACA NY
WSP USA Contact E-mail	AMY.ROMANO @wsp.com
Project Number & Task	31401545.001/02
WSP USA Contact Phone	315-655-3900
Sampler(s) Name(s)	NATE WINSTON
Sampler(s) Signature(s)	[signature]
Laboratory Name & Location	SGS DAYTON
Laboratory Project Manager	
Requested Turn-Around-Time	[X] Standard [ ] 24 HR [ ] 48 HR [ ] 72 HR [ ] ___ HR

Requested Analyses & Preservatives

	Sample Identification	Matrix	Collection Start* Date	Collection Start* Time	Collection Stop* Date	Collection Stop* Time	Number of Containers	8260 TCLP	TCLP METALS	8082 PCBS	8270 TCLP	CORROSIVITY	IGN	Sample Comments
1	MH-A6 PURGE WATER	AQ	—	—	10/3/19	1100	10	X	X	X	X	X	X	E11
2	MH-22 PURGE WATER	AQ	—	—		1130	10	X	X	X	X	X	X	C27
3	MH-22 SOLIDS	S	—	—		1200	3	X	X	X	X	X		B24
4	BD 18 SEWER	AQ	—	—		1230	10	X	X	X	X	X	X	V1177
5	MH-42A/B	AQ	—	—		1300	10	X	X	X	X	X	X	G6272
6	UTILITY SUMP SOLIDS	S	—	—		1400	3	X	X	X	X	X		D7
7	UTILITY SUMP LIQUIDS	AQ	—	—		1430	10	X	X	X	X	X	X	C56 T5
8	DECON WATER	AQ	—	—		1500	10	X	X	X	X	X	X	4D3

Initial Assessment 2AQ

Label Verification

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
[signature]	10/3/19	1730	FEDEX			FEDEX	1215 6025 -8620, -8630, -8641 463600566960
FEDEX	10/4/19	0920	[signature]	10/4/19	920	4	3.8, 3.5, 3.6 & IR-7 3.1

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

4.2

4

JC96272: Chain of Custody

Page 1 of 3

SGS Sample Receipt Summary

Job Number: JC96272 **Client:** WSP USA **Project:** EMERSUB 15, LLC, ITHACA, NY

Date / Time Received: 10/4/2019 9:20:00 AM **Delivery Method:** FedEx **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.8); Cooler 2: (3.5); Cooler 3: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (3.7); Cooler 2: (3.4); Cooler 3: (3.5);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	IR Gun
3. Cooler media:	Ice (Bag)
4. No. Coolers:	3

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 229517 pH 12+: 208717 Other: (Specify)

Comments
1) -8 TCLP Metals volume rec'd in Glass, not plastic.
2) -8 TCLP VOC volume rec'd in HCL preserved vials.

SM089-02 Rev. Date 12/1/16

JC96272: Chain of Custody
Page 2 of 3

Responded to by: Beth Wasserman Response Date: 10/8/19

Proceed as noted.
Per Amy Romano

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D6402-MB	3D149780.D	1	10/16/19	EH	n/a	n/a	V3D6402

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	76-120%
17060-07-0	1,2-Dichloroethane-D4	98%	64-135%
2037-26-5	Toluene-D8	100%	76-117%
460-00-4	4-Bromofluorobenzene	97%	72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.44	5.6	ug/l	J
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D6404-MB	3D149833.D	1	10/17/19	EH	n/a	n/a	V3D6404

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC96272-3, JC96272-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	76-120%
17060-07-0	1,2-Dichloroethane-D4	99%	64-135%
2037-26-5	Toluene-D8	100%	76-117%
460-00-4	4-Bromofluorobenzene	99%	72-122%

Method Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2V2563-MB	2V62349.D	1	10/11/19	KC	n/a	n/a	V2V2563

The QC reported here applies to the following samples: **Method:** SW846 8260C

GP24253-18LB

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	76-120%
17060-07-0	1,2-Dichloroethane-D4	96%	64-135%
2037-26-5	Toluene-D8	100%	76-117%
460-00-4	4-Bromofluorobenzene	97%	72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Leachate Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GP24253-18LB	2V62351.D	5	10/11/19	KC	10/09/19	GP24253	V2V2563

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.5	2.1	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	34	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.8	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	3.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	3.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	4.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.6	ug/l	
75-01-4	Vinyl chloride	ND	5.0	3.9	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	76-120%
17060-07-0	1,2-Dichloroethane-D4	100%	64-135%
2037-26-5	Toluene-D8	99%	76-117%
460-00-4	4-Bromofluorobenzene	96%	72-122%

Leachate Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GP24414-1LB	3D149834.D	5	10/17/19	EH	10/16/19	GP24414	V3D6404

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC96272-3, JC96272-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.5	2.1	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	34	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.8	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	3.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	3.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	4.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.6	ug/l	
75-01-4	Vinyl chloride	ND	5.0	3.9	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	76-120%
17060-07-0	1,2-Dichloroethane-D4	102%	64-135%
2037-26-5	Toluene-D8	99%	76-117%
460-00-4	4-Bromofluorobenzene	99%	72-122%

Blank Spike Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D6402-BS	3D149778.D	1	10/16/19	EH	n/a	n/a	V3D6402

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	50.4	101	75-122
78-93-3	2-Butanone (MEK)	200	199	100	64-130
56-23-5	Carbon tetrachloride	50	49.8	100	75-148
108-90-7	Chlorobenzene	50	48.9	98	76-124
67-66-3	Chloroform	50	47.8	96	77-124
106-46-7	1,4-Dichlorobenzene	50	49.5	99	71-123
107-06-2	1,2-Dichloroethane	50	47.6	95	66-150
75-35-4	1,1-Dichloroethene	50	45.3	91	61-132
127-18-4	Tetrachloroethene	50	46.4	93	70-136
79-01-6	Trichloroethene	50	49.2	98	79-126
75-01-4	Vinyl chloride	50	46.5	93	56-146

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	76-120%
17060-07-0	1,2-Dichloroethane-D4	99%	64-135%
2037-26-5	Toluene-D8	98%	76-117%
460-00-4	4-Bromofluorobenzene	102%	72-122%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D6404-BS	3D149831.D	1	10/17/19	EH	n/a	n/a	V3D6404

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC96272-3, JC96272-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	48.0	96	75-122
78-93-3	2-Butanone (MEK)	200	204	102	64-130
56-23-5	Carbon tetrachloride	50	47.0	94	75-148
108-90-7	Chlorobenzene	50	46.9	94	76-124
67-66-3	Chloroform	50	45.4	91	77-124
106-46-7	1,4-Dichlorobenzene	50	46.4	93	71-123
107-06-2	1,2-Dichloroethane	50	44.8	90	66-150
75-35-4	1,1-Dichloroethene	50	44.2	88	61-132
127-18-4	Tetrachloroethene	50	44.4	89	70-136
79-01-6	Trichloroethene	50	46.5	93	79-126
75-01-4	Vinyl chloride	50	48.7	97	56-146

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	76-120%
17060-07-0	1,2-Dichloroethane-D4	103%	64-135%
2037-26-5	Toluene-D8	100%	76-117%
460-00-4	4-Bromofluorobenzene	100%	72-122%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC96137-9MS	3D149791.D	5	10/16/19	EH	n/a	n/a	V3D6402
JC96137-9MSD	3D149792.D	5	10/16/19	EH	n/a	n/a	V3D6402
JC96137-9	3D149786.D	5	10/16/19	EH	10/04/19	GP24152	V3D6402

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

CAS No.	Compound	JC96137-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		250	224	90	250	225	90	0	38-139/13
78-93-3	2-Butanone (MEK)	ND		1000	966	97	1000	953	95	1	58-140/14
56-23-5	Carbon tetrachloride	ND		250	218	87	250	216	86	1	50-161/18
108-90-7	Chlorobenzene	ND		250	216	86	250	218	87	1	65-128/12
67-66-3	Chloroform	ND		250	212	85	250	212	85	0	66-132/14
106-46-7	1,4-Dichlorobenzene	ND		250	218	87	250	218	87	0	63-126/13
107-06-2	1,2-Dichloroethane	ND		250	214	86	250	212	85	1	59-153/15
75-35-4	1,1-Dichloroethene	ND		250	211	84	250	209	84	1	41-144/17
127-18-4	Tetrachloroethene	ND		250	204	82	250	204	82	0	48-145/15
79-01-6	Trichloroethene	ND		250	213	85	250	216	86	1	53-141/15
75-01-4	Vinyl chloride	ND		250	228	91	250	224	90	2	34-151/20

CAS No.	Surrogate Recoveries	MS	MSD	JC96137-9	Limits
1868-53-7	Dibromofluoromethane	100%	99%	101%	76-120%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	103%	64-135%
2037-26-5	Toluene-D8	100%	100%	99%	76-117%
460-00-4	4-Bromofluorobenzene	101%	100%	99%	72-122%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC96786-1MS	3D149837.D	5	10/17/19	EH	n/a	n/a	V3D6404
JC96786-1MSD	3D149838.D	5	10/17/19	EH	n/a	n/a	V3D6404
JC96786-1	3D149836.D	5	10/17/19	EH	10/16/19	GP24414	V3D6404

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC96272-3, JC96272-6

CAS No.	Compound	JC96786-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		250	235	94	250	230	92	2	38-139/13
78-93-3	2-Butanone (MEK)	ND		1000	956	96	1000	947	95	1	58-140/14
56-23-5	Carbon tetrachloride	ND		250	226	90	250	221	88	2	50-161/18
108-90-7	Chlorobenzene	ND		250	222	89	250	220	88	1	65-128/12
67-66-3	Chloroform	ND		250	219	88	250	217	87	1	66-132/14
106-46-7	1,4-Dichlorobenzene	ND		250	219	88	250	219	88	0	63-126/13
107-06-2	1,2-Dichloroethane	ND		250	218	87	250	216	86	1	59-153/15
75-35-4	1,1-Dichloroethene	ND		250	217	87	250	217	87	0	41-144/17
127-18-4	Tetrachloroethene	ND		250	208	83	250	206	82	1	48-145/15
79-01-6	Trichloroethene	ND		250	223	89	250	220	88	1	53-141/15
75-01-4	Vinyl chloride	ND		250	241	96	250	239	96	1	34-151/20

CAS No.	Surrogate Recoveries	MS	MSD	JC96786-1	Limits
1868-53-7	Dibromofluoromethane	98%	98%	99%	76-120%
17060-07-0	1,2-Dichloroethane-D4	102%	103%	102%	64-135%
2037-26-5	Toluene-D8	99%	99%	99%	76-117%
460-00-4	4-Bromofluorobenzene	100%	102%	98%	72-122%

* = Outside of Control Limits.

Leachate Spike Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GP24253-18LS	3D149755A.D	5	10/15/19	EH	10/09/19	GP24253	V3D6401
JC96091-1A	3D149758.D	5	10/15/19	EH	10/09/19	GP24253	V3D6401

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

CAS No.	Compound	JC96091-1A ug/l	Q	Spike ug/l	LS ug/l	LS %	Limits
71-43-2	Benzene	ND		250	203	81	38-139
78-93-3	2-Butanone (MEK)	ND		1000	803	80	58-140
56-23-5	Carbon tetrachloride	ND		250	201	80	50-161
108-90-7	Chlorobenzene	ND		250	195	78	65-128
67-66-3	Chloroform	ND		250	193	77	66-132
106-46-7	1,4-Dichlorobenzene	ND		250	194	78	63-126
107-06-2	1,2-Dichloroethane	ND		250	191	76	59-153
75-35-4	1,1-Dichloroethene	ND		250	189	76	41-144
127-18-4	Tetrachloroethene	ND		250	190	76	48-145
79-01-6	Trichloroethene	3.0	J	250	199	78	53-141
75-01-4	Vinyl chloride	ND		250	216	86	34-151

CAS No.	Surrogate Recoveries	LS	JC96091-1A	Limits
1868-53-7	Dibromofluoromethane	100%	96%	76-120%
17060-07-0	1,2-Dichloroethane-D4	103%	98%	64-135%
2037-26-5	Toluene-D8	99%	100%	76-117%
460-00-4	4-Bromofluorobenzene	100%	96%	72-122%

* = Outside of Control Limits.

Leachate Spike Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GP24414-1LS	3D149837A.D	5	10/17/19	EH	10/16/19	GP24414	V3D6404
JC96786-1	3D149836.D	5	10/17/19	EH	10/16/19	GP24414	V3D6404

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC96272-3, JC96272-6

CAS No.	Compound	JC96786-1 ug/l	Q	Spike ug/l	LS ug/l	LS %	Limits
71-43-2	Benzene	ND		250	235	94	38-139
78-93-3	2-Butanone (MEK)	ND		1000	956	96	58-140
56-23-5	Carbon tetrachloride	ND		250	226	90	50-161
108-90-7	Chlorobenzene	ND		250	222	89	65-128
67-66-3	Chloroform	ND		250	219	88	66-132
106-46-7	1,4-Dichlorobenzene	ND		250	219	88	63-126
107-06-2	1,2-Dichloroethane	ND		250	218	87	59-153
75-35-4	1,1-Dichloroethene	ND		250	217	87	41-144
127-18-4	Tetrachloroethene	ND		250	208	83	48-145
79-01-6	Trichloroethene	ND		250	223	89	53-141
75-01-4	Vinyl chloride	ND		250	241	96	34-151

CAS No.	Surrogate Recoveries	LS	JC96786-1	Limits
1868-53-7	Dibromofluoromethane	98%	99%	76-120%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	64-135%
2037-26-5	Toluene-D8	99%	99%	76-117%
460-00-4	4-Bromofluorobenzene	100%	98%	72-122%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: V2V2531-BFB
Lab File ID: 2V61590.D
Instrument ID: GCMS2V
Injection Date: 09/18/19
Injection Time: 17:11

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	13458	17.1		Pass
75	30.0 - 60.0% of mass 95	36616	46.4		Pass
95	Base peak, 100% relative abundance	78925	100.0		Pass
96	5.0 - 9.0% of mass 95	5076	6.43		Pass
173	Less than 2.0% of mass 174	701	0.89	(0.90) [a]	Pass
174	50.0 - 120.0% of mass 95	78019	98.9		Pass
175	5.0 - 9.0% of mass 174	5738	7.27	(7.35) [a]	Pass
176	95.0 - 101.0% of mass 174	76840	97.4	(98.5) [a]	Pass
177	5.0 - 9.0% of mass 176	5014	6.35	(6.53) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2V2531-IC2531	2V61591.D	09/18/19	17:51	00:40	Initial cal 0.2
V2V2531-IC2531	2V61592.D	09/18/19	18:16	01:05	Initial cal 0.5
V2V2531-IC2531	2V61593.D	09/18/19	18:42	01:31	Initial cal 1
V2V2531-IC2531	2V61594.D	09/18/19	19:07	01:56	Initial cal 2
V2V2531-IC2531	2V61595.D	09/18/19	19:33	02:22	Initial cal 4
V2V2531-IC2531	2V61596.D	09/18/19	19:59	02:48	Initial cal 8
V2V2531-IC2531	2V61597.D	09/18/19	20:25	03:14	Initial cal 20
V2V2531-ICC2531	2V61598.D	09/18/19	20:50	03:39	Initial cal 50
V2V2531-IC2531	2V61599.D	09/18/19	21:16	04:05	Initial cal 100
V2V2531-IC2531	2V61600.D	09/18/19	21:41	04:30	Initial cal 200
V2V2531-ICV2531	2V61603.D	09/18/19	22:58	05:47	Initial cal verification 50
V2V2531-ICV2531	2V61604.D	09/18/19	23:24	06:13	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: V2V2563-BFB
Lab File ID: 2V62345.D
Instrument ID: GCMS2V
Injection Date: 10/11/19
Injection Time: 06:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15022	16.4		Pass
75	30.0 - 60.0% of mass 95	41413	45.2		Pass
95	Base peak, 100% relative abundance	91549	100.0		Pass
96	5.0 - 9.0% of mass 95	5957	6.51		Pass
173	Less than 2.0% of mass 174	640	0.70	(0.67) [a]	Pass
174	50.0 - 120.0% of mass 95	96136	105.0		Pass
175	5.0 - 9.0% of mass 174	7410	8.09	(7.71) [a]	Pass
176	95.0 - 101.0% of mass 174	94917	103.7	(98.7) [a]	Pass
177	5.0 - 9.0% of mass 176	5933	6.48	(6.25) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2V2563-CC2531	2V62345.D	10/11/19	06:56	00:00	Continuing cal 20
V2V2563-BS	2V62347.D	10/11/19	07:54	00:58	Blank Spike
V2V2563-MB	2V62349.D	10/11/19	08:57	02:01	Method Blank
GP24160-LB15	2V62350.D	10/11/19	09:40	02:44	Leachate Blank
GP24222-LB15	2V62350A.D	10/11/19	09:40	02:44	Leachate Blank
GP24253-18LB	2V62351.D	10/11/19	10:06	03:10	Leachate Blank
GP24251-16LB	2V62352.D	10/11/19	10:31	03:35	Leachate Blank
ZZZZZZ	2V62353.D	10/11/19	10:57	04:01	(unrelated sample)
ZZZZZZ	2V62354.D	10/11/19	11:22	04:26	(unrelated sample)
ZZZZZZ	2V62355.D	10/11/19	11:47	04:51	(unrelated sample)
ZZZZZZ	2V62356.D	10/11/19	12:12	05:16	(unrelated sample)
ZZZZZZ	2V62357.D	10/11/19	12:38	05:42	(unrelated sample)
JC96223-1	2V62358.D	10/11/19	13:03	06:07	(used for QC only; not part of job JC96272)
ZZZZZZ	2V62359.D	10/11/19	13:29	06:33	(unrelated sample)
ZZZZZZ	2V62360.D	10/11/19	13:55	06:59	(unrelated sample)
ZZZZZZ	2V62361.D	10/11/19	14:21	07:25	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: V3D6399-BFB
Lab File ID: 3D149702.D
Instrument ID: GCMS3D
Injection Date: 10/12/19
Injection Time: 16:44

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	36096	22.2		Pass
75	30.0 - 60.0% of mass 95	85568	52.7		Pass
95	Base peak, 100% relative abundance	162474	100.0		Pass
96	5.0 - 9.0% of mass 95	10985	6.76		Pass
173	Less than 2.0% of mass 174	1253	0.77	(0.89) [a]	Pass
174	50.0 - 120.0% of mass 95	140928	86.7		Pass
175	5.0 - 9.0% of mass 174	10783	6.64	(7.65) [a]	Pass
176	95.0 - 101.0% of mass 174	138968	85.5	(98.6) [a]	Pass
177	5.0 - 9.0% of mass 176	8688	5.35	(6.25) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3D6399-IC6399	3D149703.D	10/12/19	17:27	00:43	Initial cal 0.2
V3D6399-IC6399	3D149704.D	10/12/19	17:52	01:08	Initial cal 0.5
V3D6399-IC6399	3D149705.D	10/12/19	18:17	01:33	Initial cal 1
V3D6399-IC6399	3D149706.D	10/12/19	18:42	01:58	Initial cal 2
V3D6399-IC6399	3D149707.D	10/12/19	19:07	02:23	Initial cal 4
V3D6399-IC6399	3D149708.D	10/12/19	19:32	02:48	Initial cal 8
V3D6399-IC6399	3D149709.D	10/12/19	19:57	03:13	Initial cal 20
V3D6399-ICC6399	3D149710.D	10/12/19	20:22	03:38	Initial cal 50
V3D6399-IC6399	3D149711.D	10/12/19	20:47	04:03	Initial cal 100
V3D6399-IC6399	3D149712.D	10/12/19	21:12	04:28	Initial cal 200
V3D6399-ICV6399	3D149715.D	10/12/19	22:26	05:42	Initial cal verification 50
V3D6399-ICV6399	3D149716.D	10/12/19	22:51	06:07	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: V3D6401-BFB
Lab File ID: 3D149747.D
Instrument ID: GCMS3D
Injection Date: 10/15/19
Injection Time: 06:53

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	38029	22.3		Pass
75	30.0 - 60.0% of mass 95	88757	52.0		Pass
95	Base peak, 100% relative abundance	170752	100.0		Pass
96	5.0 - 9.0% of mass 95	11114	6.51		Pass
173	Less than 2.0% of mass 174	1386	0.81	(0.91) [a]	Pass
174	50.0 - 120.0% of mass 95	152107	89.1		Pass
175	5.0 - 9.0% of mass 174	11596	6.79	(7.62) [a]	Pass
176	95.0 - 101.0% of mass 174	146987	86.1	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	9585	5.61	(6.52) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3D6401-CC6399	3D149747.D	10/15/19	06:53	00:00	Continuing cal 20
V3D6401-BS	3D149748.D	10/15/19	07:49	00:56	Blank Spike
V3D6401-MB	3D149750.D	10/15/19	09:05	02:12	Method Blank
ZZZZZZ	3D149751.D	10/15/19	09:56	03:03	(unrelated sample)
ZZZZZZ	3D149752.D	10/15/19	10:21	03:28	(unrelated sample)
ZZZZZZ	3D149753.D	10/15/19	10:46	03:53	(unrelated sample)
JC96091-1AMS	3D149755.D	10/15/19	11:36	04:43	Matrix Spike
GP24253-18LS	3D149755A.D	10/15/19	11:36	04:43	Leachate Spike
JC96091-1AMSD	3D149756.D	10/15/19	12:01	05:08	Matrix Spike Duplicate
JC96091-1A	3D149758.D	10/15/19	12:51	05:58	(used for QC only; not part of job JC96272)
ZZZZZZ	3D149759.D	10/15/19	13:15	06:22	(unrelated sample)
ZZZZZZ	3D149760.D	10/15/19	13:41	06:48	(unrelated sample)
ZZZZZZ	3D149761.D	10/15/19	14:06	07:13	(unrelated sample)
ZZZZZZ	3D149762.D	10/15/19	14:31	07:38	(unrelated sample)
ZZZZZZ	3D149763.D	10/15/19	14:56	08:03	(unrelated sample)
ZZZZZZ	3D149764.D	10/15/19	15:21	08:28	(unrelated sample)
ZZZZZZ	3D149766.D	10/15/19	16:11	09:18	(unrelated sample)
ZZZZZZ	3D149767.D	10/15/19	16:36	09:43	(unrelated sample)
ZZZZZZ	3D149768.D	10/15/19	17:01	10:08	(unrelated sample)
V3D6401-ECC6399	3D149771.D	10/15/19	18:16	11:23	Ending cal 50

Instrument Performance Check (BFB)

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: V3D6402-BFB
Lab File ID: 3D149777.D
Instrument ID: GCMS3D
Injection Date: 10/16/19
Injection Time: 07:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	38253	22.3		Pass
75	30.0 - 60.0% of mass 95	89363	52.1		Pass
95	Base peak, 100% relative abundance	171648	100.0		Pass
96	5.0 - 9.0% of mass 95	11306	6.59		Pass
173	Less than 2.0% of mass 174	1968	1.15	(1.29) [a]	Pass
174	50.0 - 120.0% of mass 95	153067	89.2		Pass
175	5.0 - 9.0% of mass 174	11967	6.97	(7.82) [a]	Pass
176	95.0 - 101.0% of mass 174	147840	86.1	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	9529	5.55	(6.45) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3D6402-CC6399	3D149777.D	10/16/19	07:05	00:00	Continuing cal 20
V3D6402-BS	3D149778.D	10/16/19	08:01	00:56	Blank Spike
V3D6402-MB	3D149780.D	10/16/19	09:02	01:57	Method Blank
ZZZZZZ	3D149781.D	10/16/19	09:39	02:34	(unrelated sample)
ZZZZZZ	3D149782.D	10/16/19	10:04	02:59	(unrelated sample)
ZZZZZZ	3D149784.D	10/16/19	10:54	03:49	(unrelated sample)
JC96272-7	3D149785.D	10/16/19	11:27	04:22	UTILITY SUMP LIQUIDS
JC96137-9	3D149786.D	10/16/19	11:52	04:47	(used for QC only; not part of job JC96272)
ZZZZZZ	3D149787.D	10/16/19	12:17	05:12	(unrelated sample)
ZZZZZZ	3D149788.D	10/16/19	12:43	05:38	(unrelated sample)
JC96137-9MS	3D149791.D	10/16/19	13:58	06:53	Matrix Spike
JC96137-9MSD	3D149792.D	10/16/19	14:23	07:18	Matrix Spike Duplicate
ZZZZZZ	3D149794.D	10/16/19	15:13	08:08	(unrelated sample)
ZZZZZZ	3D149795.D	10/16/19	15:39	08:34	(unrelated sample)
JC96272-2	3D149796.D	10/16/19	17:12	10:07	MH-22 PURGE WATER
JC96272-4	3D149797.D	10/16/19	17:38	10:33	BD 18 SEWER
JC96272-5	3D149798.D	10/16/19	18:03	10:58	MH-42A/B
JC96272-1	3D149799.D	10/16/19	18:28	11:23	MH-A6 PURGE WATER
JC96272-8	3D149800.D	10/16/19	18:54	11:49	DECON WATER

Instrument Performance Check (BFB)

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: V3D6404-BFB
Lab File ID: 3D149830.D
Instrument ID: GCMS3D
Injection Date: 10/17/19
Injection Time: 18:32

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	41005	22.3		Pass
75	30.0 - 60.0% of mass 95	98864	53.7		Pass
95	Base peak, 100% relative abundance	184128	100.0		Pass
96	5.0 - 9.0% of mass 95	12171	6.61		Pass
173	Less than 2.0% of mass 174	1883	1.02	(1.17) [a]	Pass
174	50.0 - 120.0% of mass 95	161045	87.5		Pass
175	5.0 - 9.0% of mass 174	12382	6.72	(7.69) [a]	Pass
176	95.0 - 101.0% of mass 174	156970	85.3	(97.5) [a]	Pass
177	5.0 - 9.0% of mass 176	10552	5.73	(6.72) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3D6404-CC6399	3D149830.D	10/17/19	18:32	00:00	Continuing cal 50
V3D6404-BS	3D149831.D	10/17/19	18:57	00:25	Blank Spike
V3D6404-MB	3D149833.D	10/17/19	19:46	01:14	Method Blank
GP24414-1LB	3D149834.D	10/17/19	20:11	01:39	Leachate Blank
ZZZZZZ	3D149835.D	10/17/19	20:36	02:04	(unrelated sample)
JC96786-1	3D149836.D	10/17/19	21:01	02:29	(used for QC only; not part of job JC96272)
JC96786-1MS	3D149837.D	10/17/19	21:26	02:54	Matrix Spike
GP24414-1LS	3D149837A.D	10/17/19	21:26	02:54	Leachate Spike
JC96786-1MSD	3D149838.D	10/17/19	21:51	03:19	Matrix Spike Duplicate
ZZZZZZ	3D149840.D	10/17/19	22:41	04:09	(unrelated sample)
ZZZZZZ	3D149841.D	10/17/19	23:07	04:35	(unrelated sample)
ZZZZZZ	3D149842.D	10/17/19	23:32	05:00	(unrelated sample)
ZZZZZZ	3D149843.D	10/17/19	23:57	05:25	(unrelated sample)
JC96272-3	3D149844.D	10/18/19	00:23	05:51	MH-22 SOLIDS
JC96272-6	3D149845.D	10/18/19	00:48	06:16	UTILITY SUMP SOLIDS
ZZZZZZ	3D149846.D	10/18/19	01:13	06:41	(unrelated sample)
ZZZZZZ	3D149847.D	10/18/19	01:38	07:06	(unrelated sample)
ZZZZZZ	3D149848.D	10/18/19	02:04	07:32	(unrelated sample)
ZZZZZZ	3D149849.D	10/18/19	02:29	07:57	(unrelated sample)
ZZZZZZ	3D149850.D	10/18/19	02:54	08:22	(unrelated sample)
ZZZZZZ	3D149851.D	10/18/19	03:19	08:47	(unrelated sample)
ZZZZZZ	3D149852.D	10/18/19	03:45	09:13	(unrelated sample)
ZZZZZZ	3D149853.D	10/18/19	04:10	09:38	(unrelated sample)

Surrogate Recovery Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Method: SW846 8260C **Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC96272-1	3D149799.D	99	101	100	101
JC96272-2	3D149796.D	100	103	101	99
JC96272-3	3D149844.D	98	101	101	99
JC96272-4	3D149797.D	99	102	100	98
JC96272-5	3D149798.D	96	100	101	99
JC96272-6	3D149845.D	99	101	99	99
JC96272-7	3D149785.D	98	98	100	98
JC96272-8	3D149800.D	98	102	101	98
GP24253-18LB	2V62351.D	101	100	99	96
GP24253-18LS	3D149755A.D	100	103	99	100
GP24414-1LB	3D149834.D	102	102	99	99
GP24414-1LS	3D149837A.D	98	102	99	100
JC96137-9MS	3D149791.D	100	102	100	101
JC96137-9MSD	3D149792.D	99	102	100	100
JC96786-1MS	3D149837.D	98	102	99	100
JC96786-1MSD	3D149838.D	98	103	99	102
V3D6402-BS	3D149778.D	100	99	98	102
V3D6402-MB	3D149780.D	96	98	100	97
V3D6404-BS	3D149831.D	100	103	100	100
V3D6404-MB	3D149833.D	99	99	100	99
V2V2563-MB	2V62349.D	100	96	100	97

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	76-120%
S2 = 1,2-Dichloroethane-D4	64-135%
S3 = Toluene-D8	76-117%
S4 = 4-Bromofluorobenzene	72-122%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23278-MB1	3E108526.D	1	10/14/19	AR	10/11/19	OP23278	E3E4880

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC96272-3, JC96272-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.55	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.39	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
110-86-1	Pyridine	ND	2.0	0.39	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	27%	14-88%
4165-62-2	Phenol-d5	18%	10-110%
118-79-6	2,4,6-Tribromophenol	109%	39-149%
4165-60-0	Nitrobenzene-d5	53%	32-128%
321-60-8	2-Fluorobiphenyl	47%	35-119%
1718-51-0	Terphenyl-d14	91%	10-126%

Method Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23279-MB1	3E108530.D	1	10/14/19	AR	10/11/19	OP23279	E3E4880

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.55	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.39	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
110-86-1	Pyridine	ND	2.0	0.39	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	33%	14-88%
4165-62-2	Phenol-d5	22%	10-110%
118-79-6	2,4,6-Tribromophenol	116%	39-149%
4165-60-0	Nitrobenzene-d5	60%	32-128%
321-60-8	2-Fluorobiphenyl	44%	35-119%
1718-51-0	Terphenyl-d14	94%	10-126%

Method Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23278-MB2	3E108530.D	1	10/14/19	AR	10/11/19	OP23278	E3E4880

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC96272-3, JC96272-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.55	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.39	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
110-86-1	Pyridine	ND	2.0	0.39	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	33%	14-88%
4165-62-2	Phenol-d5	22%	10-110%
118-79-6	2,4,6-Tribromophenol	116%	39-149%
4165-60-0	Nitrobenzene-d5	60%	32-128%
321-60-8	2-Fluorobiphenyl	44%	35-119%
1718-51-0	Terphenyl-d14	94%	10-126%

Leachate Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23278-LB23	3E108527.D	1	10/14/19	AR	10/11/19	OP23278	E3E4880

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC96272-3, JC96272-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	20	8.9	ug/l	
	3&4-Methylphenol	ND	20	8.8	ug/l	
87-86-5	Pentachlorophenol	ND	100	14	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	50	13	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	50	9.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	1.7	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	20	5.5	ug/l	
118-74-1	Hexachlorobenzene	ND	20	3.3	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	4.9	ug/l	
67-72-1	Hexachloroethane	ND	50	3.9	ug/l	
98-95-3	Nitrobenzene	ND	20	6.4	ug/l	
110-86-1	Pyridine	ND	20	3.9	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	27%	14-88%
4165-62-2	Phenol-d5	18%	10-110%
118-79-6	2,4,6-Tribromophenol	116%	39-149%
4165-60-0	Nitrobenzene-d5	57%	32-128%
321-60-8	2-Fluorobiphenyl	53%	35-119%
1718-51-0	Terphenyl-d14	93%	10-126%

Leachate Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23278-LB20	3E108528.D	1	10/14/19	AR	10/11/19	OP23278	E3E4880

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC96272-3, JC96272-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	20	8.9	ug/l	
	3&4-Methylphenol	ND	20	8.8	ug/l	
87-86-5	Pentachlorophenol	ND	100	14	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	50	13	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	50	9.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	1.7	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	20	5.5	ug/l	
118-74-1	Hexachlorobenzene	ND	20	3.3	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	4.9	ug/l	
67-72-1	Hexachloroethane	ND	50	3.9	ug/l	
98-95-3	Nitrobenzene	ND	20	6.4	ug/l	
110-86-1	Pyridine	ND	20	3.9	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	31%	14-88%
4165-62-2	Phenol-d5	20%	10-110%
118-79-6	2,4,6-Tribromophenol	114%	39-149%
4165-60-0	Nitrobenzene-d5	64%	32-128%
321-60-8	2-Fluorobiphenyl	53%	35-119%
1718-51-0	Terphenyl-d14	85%	10-126%

Leachate Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23279-LB24	3E108531.D	1	10/14/19	AR	10/11/19	OP23279	E3E4880

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	20	8.9	ug/l	
	3&4-Methylphenol	ND	20	8.8	ug/l	
87-86-5	Pentachlorophenol	ND	100	14	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	50	13	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	50	9.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	1.7	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	20	5.5	ug/l	
118-74-1	Hexachlorobenzene	ND	20	3.3	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	4.9	ug/l	
67-72-1	Hexachloroethane	ND	50	3.9	ug/l	
98-95-3	Nitrobenzene	ND	20	6.4	ug/l	
110-86-1	Pyridine	ND	20	3.9	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	32%	14-88%
4165-62-2	Phenol-d5	20%	10-110%
118-79-6	2,4,6-Tribromophenol	107%	39-149%
4165-60-0	Nitrobenzene-d5	58%	32-128%
321-60-8	2-Fluorobiphenyl	44%	35-119%
1718-51-0	Terphenyl-d14	89%	10-126%

Blank Spike Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23278-BS1	3E108529.D	1	10/14/19	AR	10/11/19	OP23278	E3E4880

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC96272-3, JC96272-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-48-7	2-Methylphenol	500	272	54	42-103
	3&4-Methylphenol	500	259	52	39-110
87-86-5	Pentachlorophenol	500	551	110	30-136
95-95-4	2,4,5-Trichlorophenol	500	376	75	55-116
88-06-2	2,4,6-Trichlorophenol	500	370	74	56-115
106-46-7	1,4-Dichlorobenzene	500	244	49	39-110
121-14-2	2,4-Dinitrotoluene	500	441	88	57-122
118-74-1	Hexachlorobenzene	500	376	75	49-122
87-68-3	Hexachlorobutadiene	500	165	33	24-112
67-72-1	Hexachloroethane	500	186	37	31-107
98-95-3	Nitrobenzene	500	284	57	44-116
110-86-1	Pyridine	500	89.5	18	10-110

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	38%	14-88%
4165-62-2	Phenol-d5	27%	10-110%
118-79-6	2,4,6-Tribromophenol	122%	39-149%
4165-60-0	Nitrobenzene-d5	63%	32-128%
321-60-8	2-Fluorobiphenyl	63%	35-119%
1718-51-0	Terphenyl-d14	96%	10-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23279-BS1	3E108532.D	1	10/14/19	AR	10/11/19	OP23279	E3E4880

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-48-7	2-Methylphenol	500	267	53	42-103
	3&4-Methylphenol	500	253	51	39-110
87-86-5	Pentachlorophenol	500	528	106	30-136
95-95-4	2,4,5-Trichlorophenol	500	379	76	55-116
88-06-2	2,4,6-Trichlorophenol	500	366	73	56-115
106-46-7	1,4-Dichlorobenzene	500	236	47	39-110
121-14-2	2,4-Dinitrotoluene	500	434	87	57-122
118-74-1	Hexachlorobenzene	500	391	78	49-122
87-68-3	Hexachlorobutadiene	500	158	32	24-112
67-72-1	Hexachloroethane	500	176	35	31-107
98-95-3	Nitrobenzene	500	291	58	44-116
110-86-1	Pyridine	500	128	26	10-110

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	36%	14-88%
4165-62-2	Phenol-d5	25%	10-110%
118-79-6	2,4,6-Tribromophenol	121%	39-149%
4165-60-0	Nitrobenzene-d5	65%	32-128%
321-60-8	2-Fluorobiphenyl	65%	35-119%
1718-51-0	Terphenyl-d14	92%	10-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23278-BS2	3E108532.D	1	10/14/19	AR	10/11/19	OP23278	E3E4880

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC96272-3, JC96272-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-48-7	2-Methylphenol	500	267	53	42-103
	3&4-Methylphenol	500	253	51	39-110
87-86-5	Pentachlorophenol	500	528	106	30-136
95-95-4	2,4,5-Trichlorophenol	500	379	76	55-116
88-06-2	2,4,6-Trichlorophenol	500	366	73	56-115
106-46-7	1,4-Dichlorobenzene	500	236	47	39-110
121-14-2	2,4-Dinitrotoluene	500	434	87	57-122
118-74-1	Hexachlorobenzene	500	391	78	49-122
87-68-3	Hexachlorobutadiene	500	158	32	24-112
67-72-1	Hexachloroethane	500	176	35	31-107
98-95-3	Nitrobenzene	500	291	58	44-116
110-86-1	Pyridine	500	128	26	10-110

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	36%	14-88%
4165-62-2	Phenol-d5	25%	10-110%
118-79-6	2,4,6-Tribromophenol	121%	39-149%
4165-60-0	Nitrobenzene-d5	65%	32-128%
321-60-8	2-Fluorobiphenyl	65%	35-119%
1718-51-0	Terphenyl-d14	92%	10-126%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23279-MS	3E108554.D	10	10/14/19	AR	10/11/19	OP23279	E3E4880
OP23279-MSD	3E108555.D	10	10/14/19	AR	10/11/19	OP23279	E3E4880
JC96239-1	3E108556.D	10	10/14/19	AR	10/11/19	OP23279	E3E4880

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

CAS No.	Compound	JC96239-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-48-7	2-Methylphenol	ND		500	ND	0* [a]	500	ND	0* [a]	nc	47-112/18
	3&4-Methylphenol	ND		500	ND	0* [a]	500	ND	0* [a]	nc	44-113/19
87-86-5	Pentachlorophenol	ND		500	ND	0* [a]	500	ND	0* [a]	nc	25-151/25
95-95-4	2,4,5-Trichlorophenol	ND		500	ND	0* [a]	500	ND	0* [a]	nc	51-124/20
88-06-2	2,4,6-Trichlorophenol	ND		500	ND	0* [a]	500	ND	0* [a]	nc	53-120/21
106-46-7	1,4-Dichlorobenzene	ND		500	162	32* [a]	500	179	36* [a]	10	40-105/22
121-14-2	2,4-Dinitrotoluene	ND		500	ND	0* [a]	500	ND	0* [a]	nc	54-123/27
118-74-1	Hexachlorobenzene	ND		500	180	36* [a]	500	200	40* [a]	11	46-125/24
87-68-3	Hexachlorobutadiene	ND		500	ND	0* [a]	500	ND	0* [a]	nc	26-121/24
67-72-1	Hexachloroethane	ND		500	ND	0* [a]	500	ND	0* [a]	nc	35-111/26
98-95-3	Nitrobenzene	ND		500	ND	0* [a]	500	ND	0* [a]	nc	35-130/25
110-86-1	Pyridine	ND		500	ND	0* [a]	500	ND	0* [a]	nc	12-102/41

CAS No.	Surrogate Recoveries	MS	MSD	JC96239-1	Limits
367-12-4	2-Fluorophenol	20%	20%	25%	14-88%
4165-62-2	Phenol-d5	24%	18%	28%	10-110%
118-79-6	2,4,6-Tribromophenol	48%	45%	43%	39-149%
4165-60-0	Nitrobenzene-d5	69%	66%	74%	32-128%
321-60-8	2-Fluorobiphenyl	35%	37%	40%	35-119%
1718-51-0	Terphenyl-d14	0%* [c]	0%* [c]	0%* [b]	10-126%

(a) Outside control limits due to dilution and matrix interference.
(b) Outside control limits due to matrix interference, confirmed by MS/MSD.
(c) Outside control limits due to dilution.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23278-MS	3E108544.D	1	10/14/19	AR	10/11/19	OP23278	E3E4880
OP23278-MSD	3E108545.D	1	10/14/19	AR	10/11/19	OP23278	E3E4880
JC96033-4A	3E108546.D	1	10/14/19	AR	10/11/19	OP23278	E3E4880

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC96272-3, JC96272-6

CAS No.	Compound	JC96033-4A ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-48-7	2-Methylphenol	ND		500	282	56	500	277	55	2	47-112/18
	3&4-Methylphenol	ND		500	276	55	500	280	56	1	44-113/19
87-86-5	Pentachlorophenol	ND		500	382	76	500	423	85	10	25-151/25
95-95-4	2,4,5-Trichlorophenol	ND		500	354	71	500	365	73	3	51-124/20
88-06-2	2,4,6-Trichlorophenol	ND		500	345	69	500	351	70	2	53-120/21
106-46-7	1,4-Dichlorobenzene	ND		500	267	53	500	260	52	3	40-105/22
121-14-2	2,4-Dinitrotoluene	ND		500	423	85	500	441	88	4	54-123/27
118-74-1	Hexachlorobenzene	ND		500	361	72	500	386	77	7	46-125/24
87-68-3	Hexachlorobutadiene	ND		500	170	34	500	165	33	3	26-121/24
67-72-1	Hexachloroethane	ND		500	198	40	500	196	39	1	35-111/26
98-95-3	Nitrobenzene	ND		500	329	66	500	321	64	2	35-130/25
110-86-1	Pyridine	ND		500	153	31	500	129	26	17	12-102/41

CAS No.	Surrogate Recoveries	MS	MSD	JC96033-4A	Limits
367-12-4	2-Fluorophenol	40%	38%	34%	14-88%
4165-62-2	Phenol-d5	26%	26%	24%	10-110%
118-79-6	2,4,6-Tribromophenol	112%	119%	117%	39-149%
4165-60-0	Nitrobenzene-d5	73%	70%	66%	32-128%
321-60-8	2-Fluorobiphenyl	66%	66%	67%	35-119%
1718-51-0	Terphenyl-d14	83%	86%	62%	10-126%

* = Outside of Control Limits.

Leachate Spike Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23279-LS12	3E108554.D	10	10/14/19	AR	10/11/19	OP23279	E3E4880
JC96239-1	3E108556.D	10	10/14/19	AR	10/11/19	OP23279	E3E4880

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

CAS No.	Compound	JC96239-1 ug/l	Q	Spike ug/l	LS ug/l	LS %	Limits
95-48-7	2-Methylphenol	ND		500	ND	0* [a]	47-112
	3&4-Methylphenol	ND		500	ND	0* [a]	44-113
87-86-5	Pentachlorophenol	ND		500	ND	0* [a]	25-151
95-95-4	2,4,5-Trichlorophenol	ND		500	ND	0* [a]	51-124
88-06-2	2,4,6-Trichlorophenol	ND		500	ND	0* [a]	53-120
106-46-7	1,4-Dichlorobenzene	ND		500	162	32* [a]	40-105
121-14-2	2,4-Dinitrotoluene	ND		500	ND	0* [a]	54-123
118-74-1	Hexachlorobenzene	ND		500	180	36* [a]	46-125
87-68-3	Hexachlorobutadiene	ND		500	ND	0* [a]	26-121
67-72-1	Hexachloroethane	ND		500	ND	0* [a]	35-111
98-95-3	Nitrobenzene	ND		500	ND	0* [a]	35-130
110-86-1	Pyridine	ND		500	ND	0* [a]	12-102

CAS No.	Surrogate Recoveries	LS	JC96239-1	Limits
367-12-4	2-Fluorophenol	20%	25%	14-88%
4165-62-2	Phenol-d5	24%	28%	10-110%
118-79-6	2,4,6-Tribromophenol	48%	43%	39-149%
4165-60-0	Nitrobenzene-d5	69%	74%	32-128%
321-60-8	2-Fluorobiphenyl	35%	40%	35-119%
1718-51-0	Terphenyl-d14	0%* [c]	0%* [b]	10-126%

(a) Outside control limits due to dilution and matrix interference.
(b) Outside control limits due to matrix interference, confirmed by MS/MSD.
(c) Outside control limits due to dilution.

* = Outside of Control Limits.

Leachate Spike Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23278-LS11	3E108544.D	1	10/14/19	AR	10/11/19	OP23278	E3E4880
JC96033-4A	3E108546.D	1	10/14/19	AR	10/11/19	OP23278	E3E4880

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC96272-3, JC96272-6

CAS No.	Compound	JC96033-4A ug/l	Q	Spike ug/l	LS ug/l	LS %	Limits
95-48-7	2-Methylphenol	ND		500	282	56	47-112
	3&4-Methylphenol	ND		500	276	55	44-113
87-86-5	Pentachlorophenol	ND		500	382	76	25-151
95-95-4	2,4,5-Trichlorophenol	ND		500	354	71	51-124
88-06-2	2,4,6-Trichlorophenol	ND		500	345	69	53-120
106-46-7	1,4-Dichlorobenzene	ND		500	267	53	40-105
121-14-2	2,4-Dinitrotoluene	ND		500	423	85	54-123
118-74-1	Hexachlorobenzene	ND		500	361	72	46-125
87-68-3	Hexachlorobutadiene	ND		500	170	34	26-121
67-72-1	Hexachloroethane	ND		500	198	40	35-111
98-95-3	Nitrobenzene	ND		500	329	66	35-130
110-86-1	Pyridine	ND		500	153	31	12-102

CAS No.	Surrogate Recoveries	LS	JC96033-4A	Limits
367-12-4	2-Fluorophenol	40%	34%	14-88%
4165-62-2	Phenol-d5	26%	24%	10-110%
118-79-6	2,4,6-Tribromophenol	112%	117%	39-149%
4165-60-0	Nitrobenzene-d5	73%	66%	32-128%
321-60-8	2-Fluorobiphenyl	66%	67%	35-119%
1718-51-0	Terphenyl-d14	83%	62%	10-126%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: E3E4852-DFTPP
Lab File ID: 3E108077.D
Instrument ID: GCMS3E
Injection Date: 08/05/19
Injection Time: 11:27

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	110705	36.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	142397	47.5		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	159913	53.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	299797	100.0		Pass
199	5.0 - 9.0% of mass 198	21162	7.06		Pass
275	10.0 - 30.0% of mass 198	76800	25.6		Pass
365	1.0 - 100.0% of mass 198	9763	3.26		Pass
441	Present, but less than mass 443	25498	8.51	(81.9) [b]	Pass
442	40.0 - 100.0% of mass 198	161786	54.0		Pass
443	17.0 - 23.0% of mass 442	31143	10.4	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E4852-IC4852	3E108078.D	08/05/19	12:07	00:40	Initial cal 100
E3E4852-IC4852	3E108079.D	08/05/19	12:32	01:05	Initial cal 80
E3E4852-ICC4852	3E108080.D	08/05/19	12:58	01:31	Initial cal 50
E3E4852-IC4852	3E108081.D	08/05/19	13:23	01:56	Initial cal 25
E3E4852-IC4852	3E108082.D	08/05/19	13:48	02:21	Initial cal 10
E3E4852-IC4852	3E108083.D	08/05/19	14:13	02:46	Initial cal 5
E3E4852-IC4852	3E108084.D	08/05/19	14:38	03:11	Initial cal 2
E3E4852-IC4852	3E108085.D	08/05/19	15:03	03:36	Initial cal 1
E3E4852-ICV4852	3E108088.D	08/05/19	16:19	04:52	Initial cal verification 50
E3E4852-ICV4852	3E108089.D	08/05/19	16:44	05:17	Initial cal verification 50
E3E4852-ICV4852	3E108090.D	08/05/19	17:09	05:42	Initial cal verification 50
E3E4852-ICV4852	3E108091.D	08/05/19	17:35	06:08	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: E3E4854-DFTPP
Lab File ID: 3E108101.D
Instrument ID: GCMS3E
Injection Date: 08/06/19
Injection Time: 15:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	111764	31.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	146145	41.2		Pass
70	Less than 2.0% of mass 69	562	0.16	(0.38) [a]	Pass
127	40.0 - 60.0% of mass 198	179536	50.7		Pass
197	Less than 1.0% of mass 198	512	0.14		Pass
198	Base peak, 100% relative abundance	354410	100.0		Pass
199	5.0 - 9.0% of mass 198	23932	6.75		Pass
275	10.0 - 30.0% of mass 198	84245	23.8		Pass
365	1.0 - 100.0% of mass 198	9880	2.79		Pass
441	Present, but less than mass 443	23931	6.75	(80.3) [b]	Pass
442	40.0 - 100.0% of mass 198	152560	43.0		Pass
443	17.0 - 23.0% of mass 442	29800	8.41	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E4854-ICV4852	3E108102.D	08/06/19	16:19	01:15	Initial cal verification 50
E3E4854-ICV4852	3E108103.D	08/06/19	16:44	01:40	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: E3E4880-DFTPP
Lab File ID: 3E108524.D
Instrument ID: GCMS3E
Injection Date: 10/14/19
Injection Time: 08:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	122604	34.9		Pass
68	Less than 2.0% of mass 69	1105	0.31	(0.88) [a]	Pass
69	Mass 69 relative abundance	125938	35.8		Pass
70	Less than 2.0% of mass 69	522	0.15	(0.41) [a]	Pass
127	40.0 - 60.0% of mass 198	181799	51.7		Pass
197	Less than 1.0% of mass 198	456	0.13		Pass
198	Base peak, 100% relative abundance	351656	100.0		Pass
199	5.0 - 9.0% of mass 198	23224	6.60		Pass
275	10.0 - 30.0% of mass 198	85605	24.3		Pass
365	1.0 - 100.0% of mass 198	11277	3.21		Pass
441	Present, but less than mass 443	33213	9.44	(86.9) [b]	Pass
442	40.0 - 100.0% of mass 198	203509	57.9		Pass
443	17.0 - 23.0% of mass 442	38217	10.9	(18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E4880-CC4852	3E108525.D	10/14/19	08:58	00:13	Continuing cal 25
OP23278-MB1	3E108526.D	10/14/19	09:24	00:39	Method Blank
OP23173-MB2	3E108526.D	10/14/19	09:24	00:39	Method Blank
OP23278-LB23	3E108527.D	10/14/19	09:49	01:04	Leachate Blank
OP23278-LB20	3E108528.D	10/14/19	10:14	01:29	Leachate Blank
OP23173-BS2	3E108529.D	10/14/19	10:39	01:54	Blank Spike
OP23278-BS1	3E108529.D	10/14/19	10:39	01:54	Blank Spike
OP23278-MB2	3E108530.D	10/14/19	11:05	02:20	Method Blank
OP23279-MB1	3E108530.D	10/14/19	11:05	02:20	Method Blank
OP23184-MB2	3E108530.D	10/14/19	11:05	02:20	Method Blank
OP23279-LB24	3E108531.D	10/14/19	11:30	02:45	Leachate Blank
OP23184-BS2	3E108532.D	10/14/19	11:55	03:10	Blank Spike
OP23278-BS2	3E108532.D	10/14/19	11:55	03:10	Blank Spike
OP23279-BS1	3E108532.D	10/14/19	11:55	03:10	Blank Spike
ZZZZZZ	3E108533.D	10/14/19	12:20	03:35	(unrelated sample)
ZZZZZZ	3E108534.D	10/14/19	12:46	04:01	(unrelated sample)
ZZZZZZ	3E108535.D	10/14/19	13:11	04:26	(unrelated sample)
ZZZZZZ	3E108536.D	10/14/19	13:36	04:51	(unrelated sample)
ZZZZZZ	3E108541.D	10/14/19	15:43	06:58	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: E3E4880-DFTPP
Lab File ID: 3E108524.D
Instrument ID: GCMS3E
Injection Date: 10/14/19
Injection Time: 08:45

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3E108542.D	10/14/19	16:21	07:36	(unrelated sample)
ZZZZZZ	3E108543.D	10/14/19	16:46	08:01	(unrelated sample)
OP23279-LS12	3E108554.D	10/14/19	17:12	08:27	Leachate Spike
OP23279-MS	3E108554.D	10/14/19	17:12	08:27	Matrix Spike
OP23279-MSD	3E108555.D	10/14/19	17:37	08:52	Matrix Spike Duplicate
JC96239-1	3E108556.D	10/14/19	18:02	09:17	(used for QC only; not part of job JC96272)
OP23278-MS	3E108544.D	10/14/19	18:27	09:42	Matrix Spike
OP23278-LS11	3E108544.D	10/14/19	18:27	09:42	Leachate Spike
OP23278-MSD	3E108545.D	10/14/19	18:53	10:08	Matrix Spike Duplicate
JC96033-4A	3E108546.D	10/14/19	19:18	10:33	(used for QC only; not part of job JC96272)
ZZZZZZ	3E108547.D	10/14/19	20:09	11:24	(unrelated sample)
ZZZZZZ	3E108548.D	10/14/19	20:34	11:49	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: E3E4881-DFTPP
Lab File ID: 3E108559.D
Instrument ID: GCMS3E
Injection Date: 10/15/19
Injection Time: 08:44

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	116785	36.5		Pass
68	Less than 2.0% of mass 69	327	0.10	(0.26) [a]	Pass
69	Mass 69 relative abundance	123419	38.5		Pass
70	Less than 2.0% of mass 69	759	0.24	(0.61) [a]	Pass
127	40.0 - 60.0% of mass 198	175734	54.9		Pass
197	Less than 1.0% of mass 198	325	0.10		Pass
198	Base peak, 100% relative abundance	320353	100.0		Pass
199	5.0 - 9.0% of mass 198	21899	6.84		Pass
275	10.0 - 30.0% of mass 198	74800	23.3		Pass
365	1.0 - 100.0% of mass 198	11462	3.58		Pass
441	Present, but less than mass 443	30331	9.47	(84.5) [b]	Pass
442	40.0 - 100.0% of mass 198	191760	59.9		Pass
443	17.0 - 23.0% of mass 442	35913	11.2	(18.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E4881-CC4852	3E108560.D	10/15/19	08:56	00:12	Continuing cal 50
ZZZZZZ	3E108561.D	10/15/19	09:21	00:37	(unrelated sample)
ZZZZZZ	3E108563.D	10/15/19	10:11	01:27	(unrelated sample)
ZZZZZZ	3E108564.D	10/15/19	10:36	01:52	(unrelated sample)
ZZZZZZ	3E108565.D	10/15/19	11:00	02:16	(unrelated sample)
ZZZZZZ	3E108566.D	10/15/19	11:25	02:41	(unrelated sample)
ZZZZZZ	3E108567.D	10/15/19	11:50	03:06	(unrelated sample)
ZZZZZZ	3E108568.D	10/15/19	12:15	03:31	(unrelated sample)
ZZZZZZ	3E108569.D	10/15/19	12:40	03:56	(unrelated sample)
ZZZZZZ	3E108572.D	10/15/19	13:56	05:12	(unrelated sample)
ZZZZZZ	3E108573.D	10/15/19	14:21	05:37	(unrelated sample)
ZZZZZZ	3E108574.D	10/15/19	14:46	06:02	(unrelated sample)
ZZZZZZ	3E108576.D	10/15/19	15:36	06:52	(unrelated sample)
ZZZZZZ	3E108577.D	10/15/19	16:01	07:17	(unrelated sample)
JC96272-1	3E108578.D	10/15/19	16:26	07:42	MH-A6 PURGE WATER
JC96272-2	3E108579.D	10/15/19	16:51	08:07	MH-22 PURGE WATER
JC96272-3	3E108580.D	10/15/19	17:17	08:33	MH-22 SOLIDS
JC96272-4	3E108581.D	10/15/19	17:42	08:58	BD 18 SEWER
JC96272-5	3E108582.D	10/15/19	18:07	09:23	MH-42A/B

Instrument Performance Check (DFTPP)

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample: E3E4881-DFTPP
Lab File ID: 3E108559.D
Instrument ID: GCMS3E
Injection Date: 10/15/19
Injection Time: 08:44

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JC96272-6	3E108583.D	10/15/19	18:32	09:48	UTILITY SUMP SOLIDS
JC96272-7	3E108584.D	10/15/19	18:58	10:14	UTILITY SUMP LIQUIDS
JC96272-8	3E108585.D	10/15/19	19:23	10:39	DECON WATER
ZZZZZZ	3E108586.D	10/15/19	19:48	11:04	(unrelated sample)

Surrogate Recovery Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Method: SW846 8270D **Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JC96272-1	3E108578.D	32	20	118	59	65	73
JC96272-2	3E108579.D	20	12	85	41	47	57
JC96272-3	3E108580.D	32	21	123	60	67	67
JC96272-4	3E108581.D	19	12	86	42	47	58
JC96272-5	3E108582.D	27	17	120	55	65	68
JC96272-6	3E108583.D	27	18	120	56	63	72
JC96272-7	3E108584.D	25	17	94	52	58	43
JC96272-8	3E108585.D	25	17	84	52	54	45
OP23278-BS1	3E108529.D	38	27	122	63	63	96
OP23278-BS2	3E108532.D	36	25	121	65	65	92
OP23278-LB20	3E108528.D	31	20	114	64	53	85
OP23278-LB23	3E108527.D	27	18	116	57	53	93
OP23278-LS11	3E108544.D	40	26	112	73	66	83
OP23278-MB1	3E108526.D	27	18	109	53	47	91
OP23278-MB2	3E108530.D	33	22	116	60	44	94
OP23278-MS	3E108544.D	40	26	112	73	66	83
OP23278-MSD	3E108545.D	38	26	119	70	66	86
OP23279-BS1	3E108532.D	36	25	121	65	65	92
OP23279-LB24	3E108531.D	32	20	107	58	44	89
OP23279-LS12	3E108554.D	20	24	48	69	35	0* [a]
OP23279-MB1	3E108530.D	33	22	116	60	44	94
OP23279-MS	3E108554.D	20	24	48	69	35	0* [a]
OP23279-MSD	3E108555.D	20	18	45	66	37	0* [a]

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	14-88%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	39-149%
S4 = Nitrobenzene-d5	32-128%
S5 = 2-Fluorobiphenyl	35-119%
S6 = Terphenyl-d14	10-126%

(a) Outside control limits due to dilution.

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23248-MB1	2G185272.D	1	10/11/19	TR	10/11/19	OP23248	G2G4794

The QC reported here applies to the following samples: **Method:** SW846 8082A

JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	0.098	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	0.11	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	0.063	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	0.21	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	0.076	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	0.097	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	94%	11-166%
877-09-8	Tetrachloro-m-xylene	95%	11-166%
2051-24-3	Decachlorobiphenyl	80%	10-150%
2051-24-3	Decachlorobiphenyl	76%	10-150%

Method Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23243-MB1	5G91813.D	1	10/14/19	CP	10/11/19	OP23243	G5G2236

The QC reported here applies to the following samples: **Method:** SW846 8082A

JC96272-3, JC96272-6

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	16	ug/kg	
11104-28-2	Aroclor 1221	ND	33	21	ug/kg	
11141-16-5	Aroclor 1232	ND	33	21	ug/kg	
53469-21-9	Aroclor 1242	ND	33	14	ug/kg	
12672-29-6	Aroclor 1248	ND	33	30	ug/kg	
11097-69-1	Aroclor 1254	ND	33	18	ug/kg	
11096-82-5	Aroclor 1260	ND	33	14	ug/kg	
11100-14-4	Aroclor 1268	ND	33	14	ug/kg	
37324-23-5	Aroclor 1262	ND	33	22	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	74%	31-146%
877-09-8	Tetrachloro-m-xylene	80%	31-146%
2051-24-3	Decachlorobiphenyl	71%	17-164%
2051-24-3	Decachlorobiphenyl	74%	17-164%

Method Blank Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23495-MB1	2G185853.D	1	10/23/19	TR	10/23/19	OP23495	G2G4805

The QC reported here applies to the following samples: **Method:** SW846 8082A

JC96272-8

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	0.098	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	0.11	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	0.063	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	0.21	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	0.076	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	0.097	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	114%	11-166%
877-09-8	Tetrachloro-m-xylene	111%	11-166%
2051-24-3	Decachlorobiphenyl	87%	10-150%
2051-24-3	Decachlorobiphenyl	83%	10-150%

Blank Spike Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23243-BS1	5G91814.D	1	10/14/19	CP	10/11/19	OP23243	G5G2236

The QC reported here applies to the following samples: **Method:** SW846 8082A

JC96272-3, JC96272-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	114	85	67-157
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	133	106	79	63-155
11100-14-4	Aroclor 1268		ND		50-150 [a]
37324-23-5	Aroclor 1262		ND		50-150 [a]

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	79%	31-146%
877-09-8	Tetrachloro-m-xylene	83%	31-146%
2051-24-3	Decachlorobiphenyl	77%	17-164%
2051-24-3	Decachlorobiphenyl	80%	17-164%

(a) Advisory control limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23248-BS1	2G185273.D	1	10/11/19	TR	10/11/19	OP23248	G2G4794
OP23248-BSD	2G185274.D	1	10/11/19	TR	10/11/19	OP23248	G2G4794

The QC reported here applies to the following samples: **Method:** SW846 8082A

JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	2	1.8	90	1.7	85	6	37-164/43
11104-28-2	Aroclor 1221		ND		ND		nc	70-130/20
11141-16-5	Aroclor 1232		ND		ND		nc	70-130/20
53469-21-9	Aroclor 1242		ND		ND		nc	70-130/20
12672-29-6	Aroclor 1248		ND		ND		nc	70-130/20
11097-69-1	Aroclor 1254		ND		ND		nc	70-130/20
11096-82-5	Aroclor 1260	2	1.8	90	1.8	90	0	36-155/46
11100-14-4	Aroclor 1268		ND		ND		nc	-/20
37324-23-5	Aroclor 1262		ND		ND		nc	-/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	97%	97%	11-166%
877-09-8	Tetrachloro-m-xylene	95%	93%	11-166%
2051-24-3	Decachlorobiphenyl	83%	86%	10-150%
2051-24-3	Decachlorobiphenyl	77%	78%	10-150%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23495-BS1	2G185854.D	1	10/23/19	TR	10/23/19	OP23495	G2G4805
OP23495-BSD	2G185855.D	1	10/23/19	TR	10/23/19	OP23495	G2G4805

The QC reported here applies to the following samples: **Method:** SW846 8082A

JC96272-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	2.0	2.1	105	2.0	100	5	37-164/43
11104-28-2	Aroclor 1221		ND		ND		nc	70-130/20
11141-16-5	Aroclor 1232		ND		ND		nc	70-130/20
53469-21-9	Aroclor 1242		ND		ND		nc	70-130/20
12672-29-6	Aroclor 1248		ND		ND		nc	70-130/20
11097-69-1	Aroclor 1254		ND		ND		nc	70-130/20
11096-82-5	Aroclor 1260	2.0	2.0	100	2.0	100	0	36-155/46
11100-14-4	Aroclor 1268		ND		ND		nc	-/20
37324-23-5	Aroclor 1262		ND		ND		nc	-/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	107%	104%	11-166%
877-09-8	Tetrachloro-m-xylene	104%	103%	11-166%
2051-24-3	Decachlorobiphenyl	83%	81%	10-150%
2051-24-3	Decachlorobiphenyl	79%	76%	10-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP23243-MS	5G91816.D	1	10/14/19	CP	10/11/19	OP23243	G5G2236
OP23243-MSD	5G91817.D	1	10/14/19	CP	10/11/19	OP23243	G5G2236
JC96278-4	5G91815.D	1	10/14/19	CP	10/11/19	OP23243	G5G2236

The QC reported here applies to the following samples: **Method:** SW846 8082A

JC96272-3, JC96272-6

CAS No.	Compound	JC96278-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		148	78.8	53	161	88.3	55	11	36-191/60
11104-28-2	Aroclor 1221	ND			ND			ND		nc	70-130/50
11141-16-5	Aroclor 1232	ND			ND			ND		nc	70-130/1
53469-21-9	Aroclor 1242	ND			ND			ND		nc	70-130/6
12672-29-6	Aroclor 1248	ND			ND			ND		nc	70-130/33
11097-69-1	Aroclor 1254	ND			ND			ND		nc	70-130/38
11096-82-5	Aroclor 1260	53.7		148	138	57	161	322	167	80* [a]	15-200/68
11100-14-4	Aroclor 1268	ND			ND			ND		nc	-/50
37324-23-5	Aroclor 1262	ND			ND			ND		nc	-/17

CAS No.	Surrogate Recoveries	MS	MSD	JC96278-4	Limits
877-09-8	Tetrachloro-m-xylene	56%	57%	76%	31-146%
877-09-8	Tetrachloro-m-xylene	62%	64%	92%	31-146%
2051-24-3	Decachlorobiphenyl	66%	67%	80%	17-164%
2051-24-3	Decachlorobiphenyl	63%	67%	93%	17-164%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Surrogate Recovery Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Method: SW846 8082A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JC96272-1	2G185305.D	143	96	23	27
JC96272-2	2G185306.D	78	80	21	25
JC96272-4	2G185372.D	91	78	27	37
JC96272-5	2G185308.D	48	43	13	12
JC96272-7	2G185432.D	376* [c]	76	40	33
JC96272-8	2G185857.D	373* [c]	49	55	43
OP23248-BS1	2G185273.D	97	95	83	77
OP23248-BSD	2G185274.D	97	93	86	78
OP23248-MB1	2G185272.D	94	95	80	76
OP23495-BS1	2G185854.D	107	104	83	79
OP23495-BSD	2G185855.D	104	103	81	76
OP23495-MB1	2G185853.D	114	111	87	83

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	11-166%
S2 = Decachlorobiphenyl	10-150%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to matrix interference.

Surrogate Recovery Summary

Job Number: JC96272
Account: WSPENYC WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JC96272-3	5G91851.D	46	56	37	53
JC96272-6	5G91808.D	61	40	31	25
OP23243-BS1	5G91814.D	79	83	77	80
OP23243-MB1	5G91813.D	74	80	71	74
OP23243-MS	5G91816.D	56	62	66	63
OP23243-MSD	5G91817.D	57	64	67	67

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	31-146%
S2 = Decachlorobiphenyl	17-164%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17789
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/09/19

Metal	RL	IDL	MDL	MB raw	final
Aluminum	1.0	.072	.23		
Antimony	0.50	.007	.024		
Arsenic	0.50	.0075	.014	0.0038	<0.50
Barium	1.0	.0025	.067	0.0052	<1.0
Beryllium	0.010	.0005	.0025		
Bismuth	0.10	.009	.02		
Boron	0.50	.004	.31		
Cadmium	0.020	.0015	.005	-0.00020	<0.020
Calcium	25	.02	.5		
Chromium	0.050	.0015	.01	0.00050	<0.050
Cobalt	0.25	.0015	.013		
Copper	0.050	.003	.03		
Iron	0.50	.013	.16		
Lead	0.50	.008	.009	0.00040	<0.50
Lithium	0.25	.011	.037		
Magnesium	25	.082	.7		
Manganese	0.075	.0005	.007		
Molybdenum	0.10	.002	.018		
Nickel	0.050	.0025	.0085		
Phosphorus	0.25	.0095	.089		
Potassium	50	.4	1		
Selenium	0.50	.015	.025	-0.00080	<0.50
Silicon	1.0	.006	.51		
Silver	0.050	.0025	.0095	-0.0013	<0.050
Sodium	50	.05	2.8		
Strontium	0.050	.0015	.005		
Sulfur	0.25	.018	.23		
Thallium	0.50	.0065	.009		
Tin	0.050	.0035	.019		
Titanium	0.050	.0025	.013		
Tungsten	0.25	.0085	.2		
Vanadium	0.25	.0025	.009		
Zinc	0.10	.001	.035		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17789
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/09/19

Metal	RL	IDL	MDL	MB raw	final
Zirconium	0.050	.0015	.021		

Associated samples MP17789: JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17789
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/09/19

Metal	JC96239-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	0.0	101	100.	101.0	75-125
Barium	0.13	100	100.	99.9	75-125
Beryllium					
Bismuth					
Boron					
Cadmium	0.0	98.6	100.	98.6	75-125
Calcium					
Chromium	0.090	99.4	100.	99.3	75-125
Cobalt					
Copper					
Iron					
Lead	0.0	102	100.	102.0	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium	0.0	101	100.	101.0	75-125
Silicon					
Silver	0.0	12.6	12.5	100.8	75-125
Sodium					
Strontium					
Sulfur					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17789
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/09/19

Metal	JC96239-1 Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP17789: JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17789
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/09/19

Metal	JC96239-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	101	100.	101.0	0.0	20
Barium	0.13	101	100.	100.9	1.0	20
Beryllium						
Bismuth						
Boron						
Cadmium	0.0	98.1	100.	98.1	0.5	20
Calcium						
Chromium	0.090	100	100.	99.9	0.6	20
Cobalt						
Copper						
Iron						
Lead	0.0	102	100.	102.0	0.0	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium	0.0	99.0	100.	99.0	2.0	20
Silicon						
Silver	0.0	12.5	12.5	100.0	0.8	20
Sodium						
Strontium						
Sulfur						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17789 | Methods: SW846 6010D
Matrix Type: LEACHATE | Units: mg/l

Prep Date: 10/09/19

Metal	JC96239-1 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP17789: JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17789
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/09/19

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	2.0	2.0	100.0	80-120
Barium	2.0	2.0	100.0	80-120
Beryllium				
Bismuth				
Boron				
Cadmium	1.9	2.0	95.0	80-120
Calcium				
Chromium	2.0	2.0	100.0	80-120
Cobalt				
Copper				
Iron				
Lead	2.0	2.0	100.0	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium	1.9	2.0	95.0	80-120
Silicon				
Silver	0.24	0.25	96.0	80-120
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17789
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/09/19

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP17789: JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17789
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/09/19

Metal	JC96239-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	2.50	0.00	100.0(a)	0-10
Beryllium				
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	1.80	0.00	100.0(a)	0-10
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17789
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/09/19

Metal	JC96239-1 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP17789: JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17806 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 10/10/19

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.000014	.000095	0.000021	<0.00020

Associated samples MP17806: JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17806
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/10/19

Metal	JC96239-1 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	0.041	0.060	68.3N(a)	75-125

Associated samples MP17806: JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17806
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/10/19

Metal	JC96239-1 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.038	0.060	63.3N(a)	7.6	20

Associated samples MP17806: JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17806
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/10/19

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0020	0.0020	100.0	80-120

Associated samples MP17806: JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17814
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/11/19

Metal	RL	IDL	MDL	MB raw	final
Aluminum	1.0	.042	.23		
Antimony	0.50	.006	.024		
Arsenic	0.50	.0075	.014	0.0010	<0.50
Barium	1.0	.0015	.067	0.0014	<1.0
Beryllium	0.010	.0005	.0025		
Bismuth	0.10	.01	.02		
Boron	0.50	.004	.31		
Cadmium	0.020	.0005	.005	0.0	<0.020
Calcium	25	.012	.5		
Chromium	0.050	.002	.01	0.00090	<0.050
Cobalt	0.25	.002	.013		
Copper	0.050	.0015	.03		
Iron	0.50	.012	.16		
Lead	0.50	.0055	.009	-0.0012	<0.50
Lithium	0.25	.0055	.037		
Magnesium	25	.068	.7		
Manganese	0.075	.0005	.007		
Molybdenum	0.10	.0035	.018		
Nickel	0.050	.0015	.0085		
Phosphorus	0.25	.0055	.089		
Potassium	50	.13	1		
Selenium	0.50	.009	.025	0.0026	<0.50
Silicon	1.0	.011	.51		
Silver	0.050	.0015	.0095	-0.00050	<0.050
Strontium	0.050	.0005	.005		
Sulfur	0.25	.011	.23		
Thallium	0.50	.0065	.009		
Tin	0.050	.0045	.019		
Titanium	0.050	.0015	.013		
Tungsten	0.25	.007	.2		
Vanadium	0.25	.0015	.009		
Zinc	0.10	.0015	.035		
Zirconium	0.050	.001	.021		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17814
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/11/19

Metal	RL	IDL	MDL	MB raw	final

Associated samples MP17814: JC96272-3, JC96272-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17814
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/11/19

Metal	JC96033-4A Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	0.0	2.1	2.0	105.0	75-125
Barium	0.49	2.5	2.0	100.5	75-125
Beryllium					
Bismuth					
Boron					
Cadmium	0.0074	2.1	2.0	104.6	75-125
Calcium					
Chromium	0.0	2.0	2.0	100.0	75-125
Cobalt					
Copper					
Iron					
Lead	0.24	2.2	2.0	98.0	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium	0.017	2.1	2.0	104.2	75-125
Silicon					
Silver	0.0	0.26	0.25	104.0	75-125
Strontium					
Sulfur					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc					
Zirconium					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17814
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/11/19

Metal	JC96033-4A Original MS	Spikelot MPSPK2	% Rec	QC Limits

Associated samples MP17814: JC96272-3, JC96272-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17814
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/11/19

Metal	JC96033-4A Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	2.1	2.0	105.0	0.0	20
Barium	0.49	2.5	2.0	100.5	0.0	20
Beryllium						
Bismuth						
Boron						
Cadmium	0.0074	2.1	2.0	104.6	0.0	20
Calcium						
Chromium	0.0	2.0	2.0	100.0	0.0	20
Cobalt						
Copper						
Iron						
Lead	0.24	2.2	2.0	98.0	0.0	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium	0.017	2.1	2.0	104.2	0.0	20
Silicon						
Silver	0.0	0.26	0.25	104.0	0.0	20
Strontium						
Sulfur						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc						
Zirconium						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17814
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/11/19

Metal	JC96033-4A Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit

Associated samples MP17814: JC96272-3, JC96272-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17814
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/11/19

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	2.1	2.0	105.0	80-120
Barium	2.0	2.0	100.0	80-120
Beryllium				
Bismuth				
Boron				
Cadmium	2.1	2.0	105.0	80-120
Calcium				
Chromium	2.0	2.0	100.0	80-120
Cobalt				
Copper				
Iron				
Lead	2.0	2.0	100.0	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium	2.1	2.0	105.0	80-120
Silicon				
Silver	0.26	0.25	104.0	80-120
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				
Zirconium				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17814
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: mg/l

Prep Date: 10/11/19

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits

Associated samples MP17814: JC96272-3, JC96272-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17814
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/11/19

Metal	JC96033-4A Original	SDL 5:25	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	488	487	0.3	0-10
Beryllium				
Bismuth				
Boron				
Cadmium	7.40	8.40	13.5 (a)	0-10
Calcium				
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper				
Iron				
Lead	236	254	7.3	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium	17.4	0.00	100.0(a)	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17814
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/11/19

Metal	JC96033-4A Original SDL 5:25 %DIF	QC Limits
Zirconium		

Associated samples MP17814: JC96272-3, JC96272-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17818
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/11/19

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.000014	.000095	0.000018	<0.00020

Associated samples MP17818: JC96272-3, JC96272-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17818
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/11/19

Metal	JC96033-4A Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	0.0020	0.0020	100.0	75-125

Associated samples MP17818: JC96272-3, JC96272-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17818
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/11/19

Metal	JC96033-4A Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.0019	0.0020	95.0	5.1	20

Associated samples MP17818: JC96272-3, JC96272-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

QC Batch ID: MP17818
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/11/19

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0020	0.0020	100.0	80-120

Associated samples MP17818: JC96272-3, JC96272-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC96272
Account: WSPENYC - WSP Environment & Energy
Project: Emersub 15, LLC, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Corrosivity as pH	GN1312	JC96272-1	su	6.54	6.63	1.4	0-5%
Corrosivity as pH	GN1337	JC96460-5A	su	7.66	7.64	0.3	0-5%
Ignitability (Flashpoint)	GN1318	JC96272-1	Deg. F	>200	>200	0.0	0-10%
Ignitability (Flashpoint)	GN1352	JC96235-2A	Deg. F	>200	>200	0.0	0-10%
Solids, Percent	GN1597	JC96789-1	%	94.1	94.9	0.8	0-5%

Associated Samples:
Batch GN1312: JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8
Batch GN1318: JC96272-1, JC96272-2, JC96272-4, JC96272-5, JC96272-7, JC96272-8
Batch GN1337: JC96272-3, JC96272-6
Batch GN1352: JC96272-3, JC96272-6
Batch GN1597: JC96272-3, JC96272-6
(*) Outside of QC limits

APPENDIX

N CONCRETE AND CDF MIX DESIGNS

Hanson Aggregates NY LLC
Post Office Box A
5126 South Onondaga Road
Nedrow, New York 13120-0129
(315)-469-3217

Concrete Mix Design

Mix: S3512/530+N **3500 psi** 12/5/2018
(w/ optional MasterPolyheed)

Contractor: Ontario Specialty Contracting, Inc.
Project: **Emerson Power Transmission Site - Ithaca**
Source of Concrete: Hanson Aggregates NY LLC - Ithaca, N.Y.
Placement: **Interior Concrete**

		Lbs. Per Cu. Yd.	Saturated Surface Dry
Lehigh Ground Granulated Blast-Furnace Slag		106	0.58
Lehigh Low Alkali Portland Cement, Type I / II		424	2.16
RMS Gravel, Freeville NYSDOT Concrete Sand		1360	8.29
RMS Gravel, Freeville NYSDOT Crushed Gravel, #1's, 3/4 inch		740	4.46
RMS Gravel, Freeville NYSDOT Crushed Gravel, #2's, 1 inch		1110	6.69
Air (entrapped)		0% - 3%	0.54
Total Water	32 gal	267	4.28
			27

MasterPozzolith 200 (BASF) (3 oz.) 15.51
Optional: Replace Pozz. 200 with MasterPolyheed 997 (BASF) (6 oz.) 31.8

Water Cement Ratio LBS/LB 0.50.
Slump, Inches 4" +/-1" **(*5" - 7"with MasterPolyheed)**
Concrete Unit Weight, PCF 148.41

Plasticizer dosage may be adjusted for field conditions.

John Feyerabend

HANSON AGGREGATES NY LLC
P.O. BOX A
NEDROW, NY 13120 (315-469-3217)

12/5/2018

Mix ID: S3512/530+N

Compressive Strength
3500 psi

Concrete Test Report Summary

Date Sampled	Slump In	Air Cont %	Con Tmp deg F	7 Day Compile PSI	28 Day Compile PSI	Moving Avg: 3 28 Day Compile PSI
1/4/2018	4.75	1.2	70	3530	5230	
1/4/2018	4	1.5	70	3110	4860	
1/9/2018	3.5	1.4	63	3240	4740	
1/9/2018	3.5	1.4	63	3340	5020	
1/16/2018	3.75	1.6	66	3075	4740	
1/16/2018	4.5	2	66	3010	5240	
1/24/2018	4.25	1.7	56	3660	5440	
1/24/2018	4.5	1.7	56	3640	5350	
2/1/2018	5.5	1.1	63	3550	5150	
2/1/2018	4.5	1.6	63	3860	5370	
2/1/2018	3	2	67	3140	5460	
2/1/2018	3	1	67	3330	5370	
2/2/2018	4	2.1	66	3020	4990	
2/2/2018	3.5	1.2	56	3410	5610	
2/2/2018	3.25	0.8	56	3610	5760	
2/6/2018	4	1.5	66	2785	4910	
2/7/2018	4	2.3	60	2980	4470	
2/7/2018	3	1.6	58	3390	5290	
2/11/2018	4	1.5	55	3400	4860	
2/23/2018	3.75	1.9	57	3550	5140	
2/23/2018	4.5	1.8	61	3305	5250	
Count	21	21	21	21	21	0
Std Deviation				273	317	
Average	3.94	1.57	62.1	3330	5155	
Range	3	0.8	55	2785	4470	
	5.5	2.3	70	3860	5760	

ACI 214 SUMMARY

Statistical Strength Summary

Average strength based on 21 tests: 5155
Overall Standard Deviation: 317

LEHIGH
HEIDELBERGCEMENT Group

Material Certification Report

Brand Name: Allcem Slag Cement
Type: ASTM C989 Grade 100

Test Period: 06-03-18
to: 06-25-18

General Information

Supplier:	Lehigh Cement Company	Source Location:	Picton Plant
Address:	1370 Highway 49 South Picton, ON, K0K 2T0	Contact:	Mike Stanzel
		Phone	226-868-4422

Allcem Slag Cement meets ASTM C-989 and AASHTO M-302 for Grade 100 Ground Granulated Blast-Furnace Slag
We are not responsible for improper use or workmanship

Test Data on ASTM "Standard" Requirements

Chemical (C989, Table 2)			Physical (C989, Table1)		
Item	Limit	Result	Item	Limit	Result
			+45 µm (No. 325) Sieve (%)	20 max	4.79
			Blaine Fineness (m^2/g)		559
Sulfide S (%)	2.5 Max	0.6	Autoclave Expanion (%)	max 0.5	0.02
			Air Content (%)	12 max	9.8
Sulfate Ion - SO_3 (%)	NA	0.64			
			Slag Activity Index (SAI %)		
Al2O3 (%)	NA	9.83	Average of Last 5 Samples:		
			Avg 7 Day Index		71
			Avg 28 Day Index	95 min	98
			Current Samples:		
			7 Day Index		71
			28 Day Index	90 min	99

Test Data on Reference Cement

Chemical			Physical		
Item	Limit	Result	Item	Limit	Result
Total Alkalies as Na_2O (%)	0.60-0.90		Blaine Fineness (m2/kg)	-	-
C_3S	-		Compressive Strength MPa (psi):		
C_2S	-		7 Day	-	31.1
C_3A	-		28 Day	35 (5000) min	37.1
C_4AF	-				

Optional Test Data

Chemical			Physical		
Item	Limit	Result	Item	Limit	Result
% Total Alkalies	-	0.71	Specific Gravity	-	2.83
%Cl (Chloride)	-	0.014	Sulfate Expansion, C-1038, %	0.02%	0.009

Notes

August 23, 2018
Date

Quality Control Manager:

LEHIGH
HEIDELBERGCEMENT Group

Mill Test Certificate Report

Type: I-II ASTM

Grind Number: August-18

Test Period: 08-01-18 to: 08-28-18

Certification

Lehigh Cement Company, LLC certifies that at time of shipment, the portland cement designated as Type I – II manufactured at the Picton, Ontario plant conforms to the standard composition and physical requirements of the current Standard Specification for Portland Cement of ASTM C 150 for both Type I and Type II portland cement. This certification carries no other express or implied warranties and Lehigh Cement Company LLC is not responsible for improper use or workmanship of the described cement.

General Information

Supplier:	**Supplier:** Lehigh Cement Company LLC	**Source Location:** Picton Plant
Address:	**Address:** 1370 Highway 49 South Picton, ON, K0K 2T0	**Contact:** Mike Stanzel 1-226-868-4422
Telephone:	**Telephone:** 613-476-3233	

Test Data on ASTM "Standard" Requirements

Chemical Requirements (ASTM C-150, Table 1)

Item	Limit	Results
SiO_2	A	21.01
Al_2O_3	6.0 Max	5.15
Fe_2O_3	6.0 Max	3.48
CaO	A	63.44
MgO	6.0 max	1.99
SO_3	D	3.62
Loss on Ignition	3.5 max	1.72
Na_2O	A	0.15
K_2O	A	0.61
Insoluble Residue	1.5 max	-
CO_2	A	1.19
Limestone %	5.0 max	3.21
$CaCO_3$ in Limestone	70% Min	84.3
Potential Compounds:		Adjusted
C_3S	A	41.25
C_2S	A	28.16
C_3A	8 max	7.64
C_4AF	A	10.44
$C_3S+4.75*C_3A$	<100	78

Physical Requirements (ASTM C-150, Table 3)

Item	Limit	Results
Fineness:		
% Retained 45µm (No. 325)	A	3.78
Blaine Fineness (m^2/Kg)	260 min	354
Autoclave Expansion (%)	0.8 max	0.02
Vicat Setting Time:		
Initial Set (minutes)	45 min	132
Normal Consistency		25.0
Air Content (%)	12 max	9.5
Compressive Strengths Mpa:		
1-Day	A	14.19
3-Day	12.0 min	23.14
7-Day	19.0 min	29.06
28-Day	A	43.79
Compressive Strengths, PSI:		
1-Day	A	2058
3-Day	1450 min	3355
7-Day	2760 min	4214
28-Day	A	6349
Mortar Bar Expansion, C-1038, %	Max 0.020	0.005

Test Data on ASTM Optional Requirement

Chemical Requirements (ASTM C-150, Table 2)

Item	Limit	Results
Equivalent Alkalies	0.6 max	0.55
Cl		0.004

Item	Limit	Limestone	Inorganic Processing Addition
Amount	5.0 Max	3.21	-
SiO_2		10.90	-
Al_2O_3		2.62	-
Fe_2O_3		1.61	-
CaO		80.67	-
SO_3		0.69	-

Physical Requirements (ASTM C-150, Table 4)

Item	Limit	Result
False Set	Min 50	86
Heat of Hydration, 3-day C-1702, cal/g		355.22

Base Cement Phase Compostion	Result
C_3S	42.61
C_2S	29.10
C_3A	7.89
C_4AF	10.79

Notes

Footnotes:
A: no limit applicable
D: if SO3 exceeds 3.0%, C-1038 shall not be more than 0.020%

SG=3.15

October 10, 2018
Date

Quality Control Manager:

CME Associates, Inc.

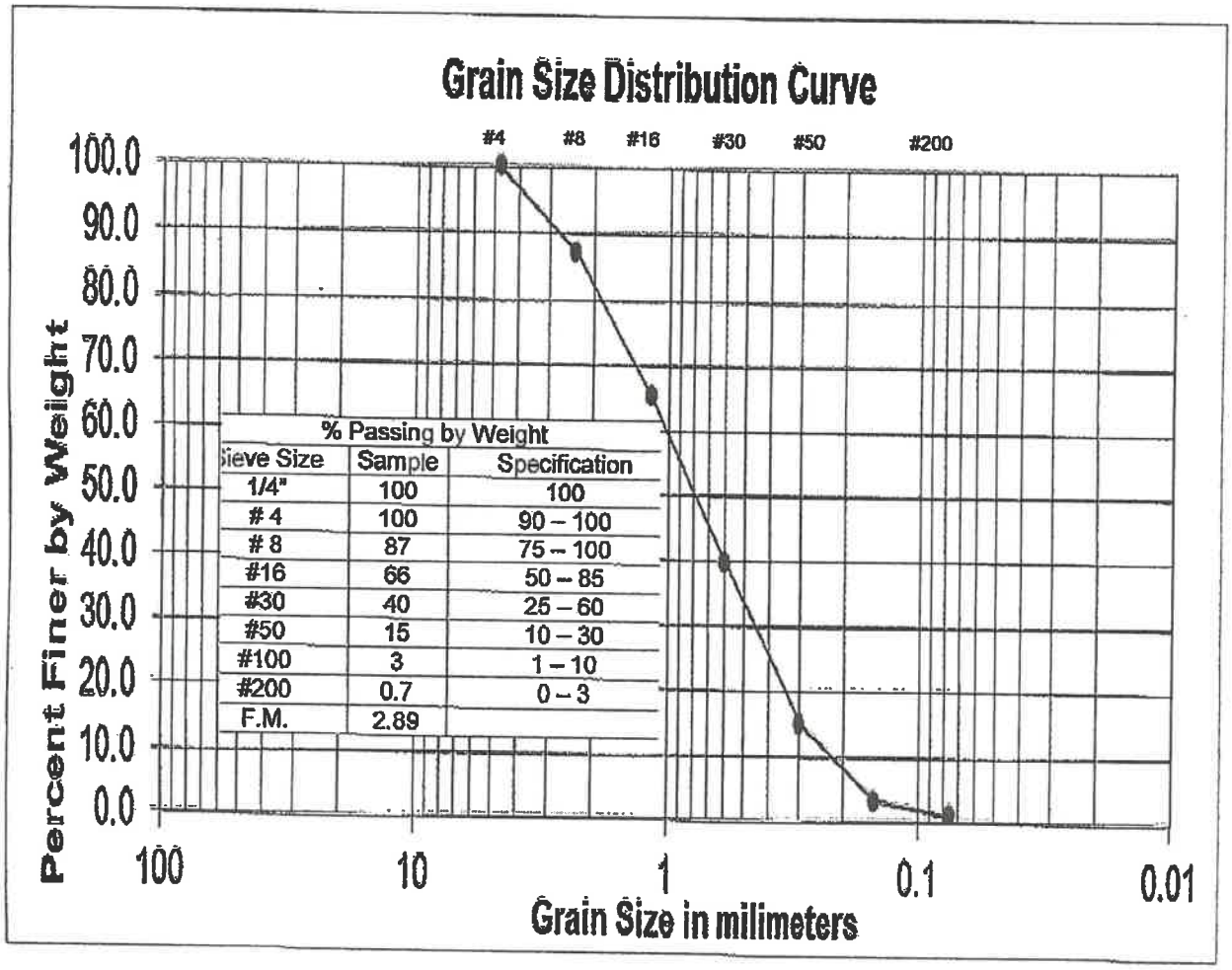
701B Chemung Street
Horseheads, New York 14845
(607) 739-4033
(607) 739-4085 (Fax)

www.cmeassociates.com

LABORATORY TEST REPORT

CLIENT: RMS Gravel
REPORT NO.: 29987L-01-0518
SAMPLE LOCATION: On-site stockpile
MATERIAL DESCRIPTION: Concrete Sand

PROJECT: 2018 Material Testing
DATE DELIVERED: May 7, 2018
SAMPLE SOURCE: Freeville, NY



% Passing by Weight

Sieve Size	Sample	Specification
1/4"	100	100
# 4	100	90 – 100
# 8	87	75 – 100
#16	66	50 – 85
#30	40	25 – 60
#50	15	10 – 30
#100	3	1 – 10
#200	0.7	0 – 3
F.M.	2.89	

The material sampled meets the grain size requirements for NYSDOT Concrete Sand.

A New York State Certified Woman-Owned Business Enterprise (WBE)

Aggregate Blend Sheet

Seive Size		3A's	2's	1's	1A's	CSM	CSS	Misc.	Misc
2"	50.0mm								
1 1/2"	37.5mm		100	100					
1"	25.0mm		99	100					
3/4"	19.0mm								
1/2"	12.5mm		12	93					
3/8"	9.5mm								
1/4"	6.3mm			3					
#4	4.75mm								
1/8"	3.2mm								
#8	2.36mm								
#10	2.00mm								
#16	1.18mm								
#20	.850mm								
#30	.600mm								
#40	.425mm								
#50	.300mm								
#80	.180mm								
#100	.150mm								
#200	.075mm								

Project:

Hanson Aggregates NY LLC
Ready-Mix Concrete Projects

RMS Gravel, Co. - Freeville
#1 & #2 Crushed Gravel
40 / 60 Blend

Plant: Ithaca, N.Y.

Date: October 19, 2018

		Blend Percentage	2" 50.0mm	1 1/2" 37.5mm	1" 25.0mm	3/4" 19.0mm	1/2" 12.5mm	3/8" 9.5mm	1/4" 6.3mm	#4 4.75mm	1/8" 3.2mm	#8 2.36mm	#10 2.00mm	#16 1.18mm	#20 .850mm	#30 .600mm	#40 .425mm	#50 .300mm	#80 .180mm	#100 .150mm	#200 .075mm
Aggregate	3A's																				
	2's	60		60.0	59.4		7.2														
	1's	40		40.0	40.0		37.2		1.2												
	1A's																				
	CSM																				
	SSS																				
	Misc.																				
	Misc.																				
Total Percent Passing				100.0	99.4		44.4		1.2												
Job Spec.																					

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3	03 30 00	Cast-in-Place Concrete
	03 40 00	Precast Concrete
	03 70 00	Mass Concrete

MasterPozzolith® 200

Water-Reducing Admixture

Formerly Pozzolith 200 N *

Description

MasterPozzolith 200 ready-to-use, liquid admixture is used for making more uniform and predictable quality concrete. It meets ASTM C 494/C 494M requirements for Type A, water-reducing, Type B, retarding, and Type D, water-reducing and retarding, admixtures.

Applications

Recommended for use in:

- Prestressed concrete
- Precast concrete
- Reinforced concrete
- Shotcrete
- Lightweight concrete
- Pumped concrete
- 4x4™ Concrete
- Pervious concrete
- Self-consolidating concrete (SCC)

Features

- Reduced water content required for a given workability
- Controlled setting characteristics – normal or retarded

Benefits

- Improved workability
- Reduced segregation
- Improved finishing characteristics for flatwork and cast surfaces
- Increased compressive and flexural strengths

Guidelines for Use

Dosage: MasterPozzolith 200 admixture is recommended for use at a dosage of 3-4 fl.oz/cwt (195-260 mL/100 kg) of cementitious materials for Type A applications and up to 6 fl oz/cwt (390 mL/100 kg) for Type B and D requirements. Because of variations in job conditions and concrete materials, dosages other than the recommended amounts may be required. In such cases, contact your local sales representative.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: MasterPozzolith 200 admixture will neither initiate nor promote corrosion of reinforcing steel in concrete. This admixture does not contain intentionally-added calcium chloride or other chloride-based ingredients.

Compatibility: MasterPozzolith 200 admixture may be used in combination with any BASF admixtures. When used in conjunction with other admixtures, each admixture must be dispensed separately into the mixture.

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Storage and Handling

Storage Temperature: MasterPozzolith 200 admixture should be stored above freezing temperatures. If MasterPozzolith 200 admixture freezes, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. **Do not use pressurized air for agitation.**

Shelf Life: MasterPozzolith 200 admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of MasterPozzolith 200 admixture has been exceeded.

Packaging

MasterPozzolith 200 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterPozzolith 200 admixture

Additional Information

For additional information on MasterPozzolith 200 admixture or its use in developing a concrete mixture with special performance characteristics, contact your local sales representative.

The Admixture Systems business of BASF's Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.

Limited Warranty Notice

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of BASF. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. BASF reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

* Pozzolith 200 N became MasterPozzolith 200 under the Master Builders Solutions brand, effective January 1, 2014.

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March 09, 2018

Hanson Aggregates NY LLC
P.O. Box A
Nedrow, NY 13120

Attention: John Feyerabend
Project: Any
Project location: Central New York State

Certificate of Conformance
MasterPozzolith® 200 Admixture (formerly Pozzolith 200N)
BASF Corporation Admixture for Concrete

I, Richard Hubbard, Sr. Technical Marketing Specialist for BASF Corporation, Cleveland, Ohio, certify:
That MasterPozzolith 200 admixture is a BASF Corporation Water-Reducing Admixture for concrete; and
That MasterPozzolith 200 admixture and Pozzolith 200N admixture are the same product having identical composition, differing only in designation; and
That no calcium chloride or chloride based ingredient is used in the manufacture of MasterPozzolith 200 admixture; and
That MasterPozzolith 200 admixture, based on the chlorides originating from all the ingredients used in its manufacture, contributes less than 0.00013 percent (1.3 ppm) chloride ions by weight of the cement when used at the rate of 65 mL per 100 kg (1 fluid ounce per 100 pounds) of cement; and
That MasterPozzolith 200 admixture meets the requirements for a Type A, Water Reducing, Type B, Retarding, and Type D, Water Reducing and Retarding Admixture as specified in ASTM C 494, Corps of Engineers' CRD-C 87 and AASHTO M194, the Standard Specifications for Chemical Admixtures for Concrete.

Richard Hubbard III

Richard Hubbard
Sr. Technical Marketing Specialist

BASF Corporation
Admixtures Systems
23700 Chagrin Boulevard
Cleveland, Ohio 44122
Telephone (216) 839-7500

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* OPTIONAL *
(WHEN REQUESTED)

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3

03 30 00	Cast-in-Place Concrete
03 40 00	Precast Concrete
03 70 00	Mass Concrete

MasterPolyheed® 997

Mid-Range Water-Reducing Admixture

Formerly PolyHeed 997*

Description

MasterPolyheed 997 admixture is a patented multi-component, mid-range water-reducing admixture. MasterPolyheed 997 admixture meets ASTM C 494/C 494M requirements for Type A, water-reducing, and Type F, high-range water-reducing, admixtures.

Applications

Recommended for use in:

- All concrete applications where superior workability, pumpability and finishability qualities are desired, in particular, flatwork, pumped concrete and pervious concrete
- Concrete containing manufactured sand and harsh concrete mixtures

Features

- True mid-range water reduction (5-15%) and excellent performance across a wide slump range, especially the difficult slump range of 5-8 in. (125-200 mm)
- Superior workability, pumpability and finishability qualities even in concrete mixtures containing low amounts of cementitious materials
- Superior finishing characteristics for residential/commercial flatwork and formed surfaces

Benefits

- Significantly reduced placement and finishing time resulting in lower in-place concrete costs
- Higher strength at all ages
- Enhanced concrete durability
- Increased service life of concrete structures

Performance Characteristics

Mixture Data: 500 lb/yd³ (295 kg/m³) of Type I cement; slump 6-7 in. (150-180 mm); 5-6% air; concrete temperature 70 °F (21 °C); ambient temperature, 70 °F (21 °C).

Setting Time Performance[1]

Mixture	Initial Set (h:min)	Difference (h:min)
Reference	6:01	—
MasterPolyheed 997 admixture @		
5 fl oz/cwt (325 mL/100 kg)	6:22	+0:21
10 fl oz/cwt (650 mL/100 kg)	6:57	+0:56
15 fl oz/cwt (980 mL/100 kg)	7:31	+1:30

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Compressive Strength, psi (MPa)

Mixture	7-Day	28-Day
Plain	2360 (16.3)	3320 (22.9)
MasterPolyheed 997 admixture @		
5 fl oz/cwt (325 mL/100 kg)	3060 (21.1)	3930 (27.1)
10 fl oz/cwt (650 mL/100 kg)	3740 (25.8)	4610 (31.8)
15 fl oz/cwt (980 mL/100 kg)	4620 (31.9)	5460 (37.7)

[1]*Note: The data shown are based on controlled laboratory tests. Reasonable variations from the results shown here may be experienced as a result of differences in concrete making materials and jobsite conditions.*

Guidelines for Use

Dosage: MasterPolyheed 997 admixture has a recommended dosage range of 3-15 fl oz /cwt (195-980 mL/100 kg) of cementitious material for most concrete mixes.

As the dosage of MasterPolyheed 997 admixture increases to 15 fl oz/cwt (980 mL/100 kg) of cementitious materials, normal concrete setting characteristics are maintained and early and ultimate compressive strengths increase.

BASF does not recommend the use of dosages outside the recommended range without trial testing. Consult your local sales representative for assistance in determining the dosage for optimum performance.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: MasterPolyheed 997 admixture will neither initiate nor promote corrosion of reinforcing or prestressing steel embedded in concrete, or of galvanized steel floor and roof systems. MasterPolyheed 997 admixture does not contain intentionally added calcium chloride or other chloride-based ingredients.

Compatibility: MasterPolyheed 997 admixture may be used in combination with any BASF admixtures. When used in conjunction with other admixtures, each admixture must be dispensed separately into the concrete mixture.

Storage and Handling

Storage Temperature: If MasterPolyheed 997 admixture freezes, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. **Do not use pressurized air for agitation.**

Shelf Life: MasterPolyheed 997 admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of MasterPolyheed 997 admixture has been exceeded.

Packaging

MasterPolyheed 997 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterPolyheed 997 admixture

Additional Information

For additional information on MasterPolyheed 997 admixture or its use in developing concrete mixtures with special performance characteristics, contact your local sales representative.

The Admixture Systems business of BASF's Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.

Limited Warranty Notice

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of BASF. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. BASF reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

* Polyheed 997 became MasterPolyheed 997 under the Master Builders Solutions brand, effective January 1, 2014.

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NSF Certified to NSF/ANSI 61

BASF Corporation
Admixture Systems
www.master-builders-solutions.basf.us

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March 19, 2018

Hanson Aggregated NY LLC
P.O. Box A
Nedrow, NY 13120

Attention: John Feyerabend
Project: Any
Project location: Central New York State

Certificate of Conformance
MasterPolyheed® 997 Admixture (formerly PolyHeed 997)
BASF Corporation Admixture for Concrete

I, Richard Hubbard, Sr. Technical Marketing Specialist for BASF Corporation, Cleveland, Ohio, certify:
That MasterPolyheed 997 admixture is a BASF Corporation Mid-Range Water-Reducing Admixture for concrete; and
That MasterPolyheed 997 and PolyHeed 997 admixture are the same product having identical composition, differing only in designation; and
That no calcium chloride or chloride based ingredient is used in the manufacture of MasterPolyheed 997 admixture; and
That MasterPolyheed 997 admixture, based on the chlorides originating from all the ingredients used in its manufacture, contributes less than 0.00012 percent (1.2 ppm) chloride ions by weight of the cement when used at the rate of 65 mL per 100 kg (1 fluid ounce per 100 pounds) of cement; and
That MasterPolyheed 997 admixture meets the requirements for a Type A, Water-Reducing Admixture, and Type F, Water-Reducing, High Range Admixture specified in ASTM C494/C494M, the Standard Specification for Chemical Admixtures for Concrete, as well as the requirements of Type A and Type F admixtures as specified in Corps of Engineers' CRD-C 87 and AASHTO M194.

Richard Hubbard III

Richard Hubbard
Sr. Technical Marketing Specialist

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MASTER® BUILDERS SOLUTIONS

* OPTIONAL:
TO BE ADDED WHEN FIELD CONDITIONS WARRANT AND REQUESTED BY CONTRACTOR

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3

03 30 00	Cast-in-Place Concrete
03 40 00	Precast Concrete

MasterSet® AC 534

Accelerating Admixture

Formerly Pozzolith NC 534*

Description

MasterSet AC 534 patented, ready-to-use, liquid admixture is formulated to accelerate time of setting and to increase early concrete strengths. MasterSet AC 534 admixture does not contain calcium chloride and is formulated to comply with ASTM C 494/C 494M Type C, accelerating, admixture requirements.

Applications

Recommended for use in:

- Reinforced, precast, pumped, flowable, lightweight or normal weight concrete and shotcrete (wet mix)
- Concrete placed on galvanized steel floor and roof systems which are left in place
- Prestressed concrete
- Fast-track concrete construction
- Concrete subject to chloride ion constraints
- 4x4™ Concrete
- Self-consolidating concrete (SCC)
- Pervious concrete

Features

- Accelerated setting time across a wide range of temperatures
- Increased early compressive and flexural strengths

Benefits

- Earlier finishing of slabs — reduced labor costs
- Reduced in-place concrete costs
- Reduced or eliminated heating and protection time in cold weather
- Earlier stripping and reuse of forms
- Superior finishing characteristics for flatwork and cast surfaces

Performance Characteristics

Mixture Data: 453 lb/yd³ (269 kg/m³) of Type I cement; 3-4 in. (75-100 mm) slump; concrete temperature 74 °F (23 °C); ambient temperature 50 and 75 °F (10 and 24 °C); non-air-entrained concrete.

Setting time	@ 50 °F (10 °C)	
	Initial Set (h:min)	Difference (h:min))
Plain	13:44	REF
MasterSet AC 534 admixture @		
› 20 fl oz/cwt (1,300 mL/100 kg)	7:11	- 6:33
› 40 fl oz/cwt (2,600 mL/100 kg)	6:05	- 7:39

Setting time	@ 75 °F (24 °C)	
	Initial Set (h:min)	Difference (h:min))
Plain	8:18	REF
MasterSet AC 534 admixture @		
› 20 fl oz/cwt (1,300 mL/100 kg)	4:59	- 3:19
› 40 fl oz/cwt (2,600 mL/100 kg)	4:18	- 4:00

MASTER® BUILDERS SOLUTIONS

Guidelines for Use

Dosage: The recommended dosage range for MasterSet AC 534 admixture is 10-45 fl oz/cwt (0.65 – 2.9 L/100 kg) of cementitious materials for most concrete mixtures using average concrete ingredients. Because of variations in job conditions and concrete materials, dosage rates other than the recommended amounts may be required. In such cases, contact your local sales representative.

The maximum dosage of MasterSet AC 534 in potable water applications that require the use of NSF Certified products is 30 fl oz/cwt (2.0 L/kg) of cementitious materials. For specialty concrete mixtures such as 4x4 Concrete, dosages up to 100 fl oz/cwt (6.5 L/100 kg) may be required.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: MasterSet AC 534 admixture will neither initiate nor promote corrosion of reinforcing steel in concrete.

Compatibility: MasterSet AC 534 admixture may be used in combination with any BASF admixtures. When used in conjunction with other admixtures, each admixture must be dispensed separately into the mixture.

Storage and Handling

Storage Temperature: MasterSet AC 534 admixture should be stored above freezing temperatures. If MasterSet AC 534 admixture freezes, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. **Do not use pressurized air for agitation.**

Shelf Life: MasterSet AC 534 admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of MasterSet AC 534 admixture has been exceeded.

Packaging

This product is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterSet AC 534 admixture

Additional Information

For additional information on MasterSet AC 534 admixture or its use in developing a concrete mixture with special performance characteristics, contact your local sales representative.

The Admixture Systems business of BASF's Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.

Limited Warranty Notice

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of BASF. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. BASF reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

* Pozzolith NC 534 became MasterSet AC 534 under the Master Builders Solutions brand, effective January 1, 2014.

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March 19, 2018

Hanson Aggregated NY LLC
P.O. Box A
Nedrow, NY 13120

Attention: John Feyerabend
Project: Any
Project location: Central New York State

Certificate of Conformance
MasterSet® AC 534 Admixture (formerly Pozzolith NC534)
BASF Corporation Admixture for Concrete

I, Richard Hubbard, Sr. Technical Marketing Specialist for BASF Corporation, Cleveland, Ohio, certify:
That MasterSet AC 534 admixture is a non-chloride Set Accelerating Admixture for concrete; and
That MasterSet AC 534 and Pozzolith NC534 admixture are the same product having identical composition, differing only in designation; and
That no calcium chloride or chloride based ingredient is used in the manufacture of MasterSet AC 534 admixture; and
That MasterSet AC 534 admixture, based on the chlorides originating from all the ingredients used in its manufacture, contributes less than 0.000045 percent (0.45 ppm) chloride ions by weight of the cement when used at the rate of 65 mL per 100 kg (1 fluid ounce per 100 pounds) of cement; and
That MasterSet AC 534 admixture meets the requirements for a Type C, Accelerating Admixture specified in ASTM C494/C494M and AASHTO M194, the Standard Specification for Chemical Admixtures for Concrete, as well as the requirements for Type C admixtures as specified in Corps of Engineers' CRD-C 87.

Richard Hubbard III

Richard Hubbard
Sr. Technical Marketing Specialist

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MASTER® BUILDERS SOLUTIONS

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Job Site Cylinder Handling

(Summary of Field Testing Procedures)

1. Technician should be ACI certified as a Grade I Field Technician.
2. Testing should include: Slump, air entrainment, unit weight and temperature.
3. A water tank or cure box should be used to maintain the required curing environment during the initial curing period.
4. Samples shall be covered or protected in the technicians wheel barrel from the elements: sun, wind, rain, and evaporation
5. Cylinders should be cast near the location they are to be stored during the initial curing period. Testing should begin within 5 minutes of taking the sample and cylinders should be made within 15 minutes of taking the sample.
6. Cylinders should then be placed in a controlled environment where the temperature is maintained in the range of 60 – 80 degrees. If the concrete being poured and tested is 6000 psi then the range of the environment should be between 68 – 78 degrees. Temperatures in storage units such as cure boxes or coolers should be controlled using heating or cooling devises as necessary.
7. The minimum and maximum temperatures during the initial curing period in the cure box or storage devises should be documented by means of a minimum / maximum thermometer. The results should appear on all test reports issued.
8. Cylinders should be transported back to the testing laboratory within 24 to 48 hours, but not less than 8 hours after initial set time. Cylinders shall be transported in a method to prevent damage. The laboratory should not be more than 4 hours away.
9. Test reports should include all data: air, slump, unit weight, temperature as well as the compressive strength and minimum / maximum initial curing environment temperature readings.
10. The above summary is based directly on ASTM C-31 "Making and Curing Concrete Specimens in the Field".

- Mix Design Report -

3486 Franklin Street
Auburn, New York 13021
(315) 253-6666 Phone
(315) 252-7595 Fax
1-888-READY-MIX
www.Vitale-Robinson.com

Client :	OSC INC.	**Date :**	*07/16/2019*
Project/Contract :	620 SOUTH AURORA ST		
Placement (Usage) :	FLOW FILL		
Placement (Method) :			

Compressive Strength	100
Aggregate Size	CONCRETE SAND
Air Entrainment	5.0% - 15%
Design (Water/Cement)	1.71
Admixtures	

Mix I.D.	FLFILL0100	
Description	FLOWABLE (CDF) - 100PSI	
Short Desc.		
Volume	27.05 ft^3	**Unit Weight**
Batch Weight	3,528.99 lbs.	130.48 $lbs./ft^3$

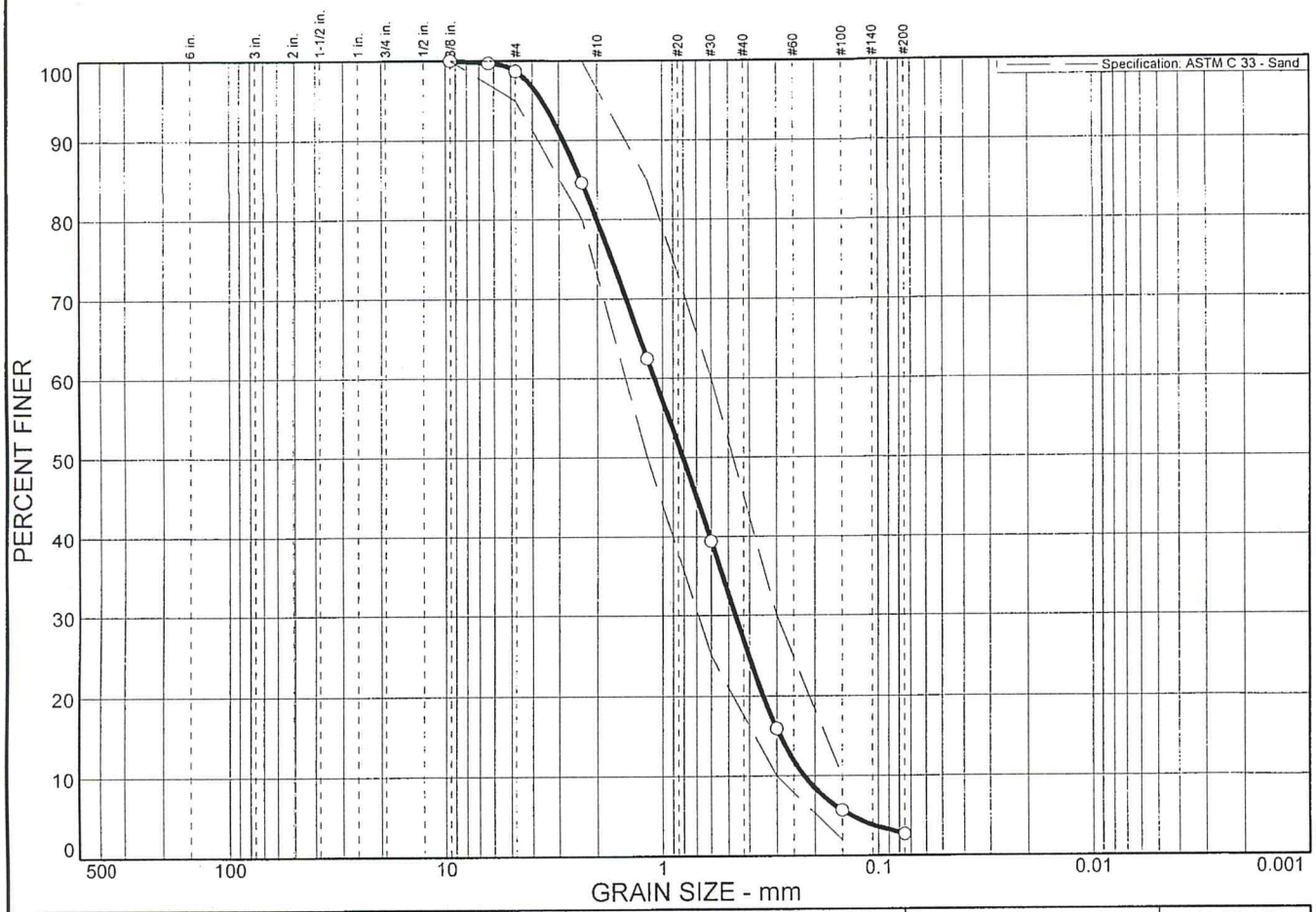
Design Constituents			**Quantity # / yd^3**	**Sp. Gr. SSD**	**Volume ft^3**
Cement - LaFarge, NA - Bath, Ontario - Type I/II			50	3.15	0.25
Slag - LaFarge, NA - Stoney Creek			125	2.92	0.69
Micro-Silica - BASF			0	2.20	
Specialty Stone			0	2.65	
#1 Stone - Limestone - Hanson			0	2.65	
#2 Stone - Limestone - Hanson			0	2.65	
Sand - Natural Sand - ASTM C-33			3054	2.64	18.54
Water - Potable	36.00	*Gallons*	299.99	- -	4.80
Admixture - Water Reducer - BASF - Polyheed 997			0.00	.oz/100#	- -
Admixture - Air Entrainment - BASF - MBAE100	Design Air :	10.25%	0.00	.oz/100#	2.77
	Design Slump :	4.00" (+/-) 1.00"			
		Calculated Water/Cement Ratio :	1.71		

Optional Product :
Optional Product :

The **"MIX I.D."** shall be used when placing all Concrete Orders and will be considered the approved mix design for the project unless Vitale-Robinson Concrete is otherwise notified prior to concrete placement. It is the responsibility of the purchaser to use the specified mix design in its proper location. Persons ordering concrete for this project must also confirm all other order specifics, if not listed above, including but, not limited to: Color, Fiber, and Accelerator for each order. The concrete mix proportions have been designed in accordance with ACI 318/ACI 301 and mix is furnished to this job according to ASTM C94. The proposed concrete mix is designed to achieve 28-day strength requirements when handled, placed, and tested in accordance with current ASTM and ACI standards and recommended practices. All tests should be conducted according to ASTM C94 standards by a certified ACI Technician. The Testing Agency shall cure "Acceptance" concrete test specimens as required by ASTM C31/C31M. We request that Vitale-Robinson Concrete be included on the distribution list for concrete test reports (per ASTM C94). All project reports can be emailed to - MVitaleJr@Vitale-Robinson.com or faxed to (315) 252-7595.

Prepared By : Bill Rhodes, Concrete Manager	**Approved By : Michael Vitale, Vice-President Operations**
William Rhodes	*Michael J. Vitale*
BRhodes@Vitale-Robinson.com	MVitaleJr@Vitale-Robinson.com
Date : *07/16/2019*	**Date :** *07/16/2019*

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	1.3	96.0	2.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.375 in.	100.0	100 - 100	
0.25 in.	99.7		
#4	98.7	95 - 100	
#8	84.6	80 - 100	
#16	62.5	50 - 85	
#30	39.4	25 - 60	
#50	15.9	10 - 30	
#100	5.7	2 - 10	
#200	2.7		

* ASTM C 33 - Sand

Soil Description

Concrete Sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 2.39 D_{60}= 1.09 D_{50}= 0.812
D_{30}= 0.465 D_{15}= 0.289 D_{10}= 0.224
C_u= 4.89 C_c= 0.88

Classification

USCS= AASHTO=

Remarks

Sample No.: 229 **Source of Sample:** Freeville Pit **Date:** 4/24/19
Location: **Elev./Depth:**

SJB SERVICES, INC.

Client: Material Testing
Project: RMS Gravel
Project No: CT-19-050 **Plate** 229

Cement Mill Test Report

Plant:	**Bath, Ontario**
Product:	**Portland Cement Type I/II(MH)**
Manufactured:	**May 2019**

ASTM C 150-18 and AASHTO M 85-18 Standard Requirements

CHEMICAL ANALYSIS

Item	Spec limit	Test Result
Rapid Method, X-Ray *(C 114)*		
SiO2 (%)	---	19.6
Al2O3 (%)	6.0 max	4.9
Fe2O3 (%)	6.0 max	3.1
CaO (%)	---	61.7
MgO (%)	6.0 max	3.0
SO3 (%)	3.0 max *	3.9
Loss on ignition (%)	3.0 max	2.3
Insoluble residue (%)	1.5 max	0.55
CO2 (%)	---	1.8
Limestone (%)	5.0 max	4.5
CaCO3 in Limestone (%)	70 min	88
Equivalent Alkalis, % (as Sodium Oxide)		0.63
Adjusted Potential Phase Composition *(C 150)*		
C3S (%)	---	49
C2S (%)	---	18
C3A (%)	8 max	7
C4AF (%)	---	9
C3S+4.75*C3A (%)	100 max	84

PHYSICAL ANALYSIS

Item	Spec limit	Test Result
Air content of mortar (%) *(C 185)*	12 max	7
Blaine Fineness (m^2/kg) *(C 204)*	260 - 430	377
-325 (%) *(C 430)*	---	97
Autoclave expansion (%) *(C 151)*	0.80 max	0.11
Compressive strength (MPa, [PSI]) *(C 109)*		
1 day	---	
3 days	12.0 [1,740] min	26.4 [3,832]
7 days	19.0 [2,760] min	33.4 [4,849]
28 days (Reflects previous month's data)	---	42.3 [6,133]
Time of setting (minutes)		
Vicat Initial *(C 191)*	45 - 375	99
Heat of Hydration (KJ/Kg, [cal/g]) *(C 186)*		
7 days (for information only)**	---	325
Mortar Bar Expansion (%) *(C 1038)* **	0.02 max	0.007 Q1'19

ASTM C 150-18 and AASHTO M 85-18 Optional Chemical Requirements:

* May exceed 3.0% SO3 maximum based on our C 1038 results of <0.02% expansion at 14 days.

** Current Production run not available - most recent provided

We certify that the above described cement, at the time of shipment, meets the chemical and physical requirements of applicable NY DoT, PA DoT, Specifications for Type I and Type II(MH)
ASTM C 150-18 & AASHTO M 85-18 STANDARD SPECIFICATIONS FOR TYPE I AND TYPE II(MH) CEMENT

Certified By:

Eastern Canada Region - Bath Plant
6501 Hwy. 33, P.O. Box 160, Bath, ON. K0H 1G0
Phone: 613-352-7711

Angelica Marcelo - Quality Manager

14-Jun-19

A member of LafargeHolcim

Production Period:
September 2016

MILL TEST CERTIFICATE
- NewCem -
Stoney Creek Plant

CHEMICAL DATA

Parameter	Test Result	ASTM C989 Spec. Limit
Sulphide Sulphur (S^{2-}), % *C*	1.3	2.5 max.
Sulphate Sulphur (as SO_3), %	0.0	*A*

PHYSICAL DATA

Parameter	Test Result	ASTM C989 Spec. Limit
Compressive Strength:		
7 Day (psi)	3626	*A*
28 Day (psi) *C*	6440	*A*
7 Day (MPa)	25.0	*A*
28 Day (MPa) *C*	44.4	*A*
Slag Activity Index, %:		
7 Day	85	75 min.
28 Day *C*	117	95 min.
Fineness:		
Blaine (m^2/kg)	563	*A*
45 micron (% retained)	0.2	20 max.
Air Content, %	4.8	12 max.
Autoclave Expansion, %	0.0	0.5 *B*
Specific Gravity	2.93	*A*

REFERENCE CEMENT

Parameter	Test Result	ASTM C989 Spec. Limit
Reference Cement Strength:		
7 Day (psi)	4264	*A*
28 Day (psi) *C*	5512	5000 min.
7 Day (MPa)	29.4	*A*
28 Day (MPa) *C*	38.0	35 min.
Total Alkalis as Na_2O_{eq}, %	0.6	0.6 - 0.9
Fineness:		
Blaine (m^2/kg)	363	*A*
45 micron (% retained)	7	20 max.

A Not Applicable
B CSA Requirement
C Data from previous month

We hereby certify that the slag represented by the chemical and physical analysis above complies with the requirements of ASTM C989, AASHTO M 302, and CSA A3001 for Grade 100 Ground Granulated Blast-Furnace Slag (GGBFS) and CSA Type S Supplementary Cementing Material.
Materials obtained for testing are mill run composites and shipping samples.

ECAN - Cement Division
Stoney Creek Plant
360 Jones Road
Stoney Creek, ON L8E 5N2
Tel.: (905)643-4101 x231 • Fax: (905)643-2099

Laboratory Supervisor

10/17/2016
Date

A member of LafargeHolcim

APPENDIX

O REQUESTS TO IMPORT/REUSE FILL OR SOIL FORMS AND NYSDEC APPROVALS

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 500-800

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

The topsoil is being stripped from the surface at a permitted mine site (see Section 4). Four discrete samples were collected and analyzed for VOCs and one composite sample (3 to 5 discrete samples from the fill site) was collected and analyzed for SVOCs, Inorganics, PCBs, and Pesticides. The samples were collected to represent the first 300 cubic yards. Additional samples will be collected to satisfy the requirements of DER-10 Table 5.4(3)10 for the estimated 750 total cubic yards of topsoil needed for the project.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

The laboratory report from Adirondack Environmental Services is attached. There were no exceedences of DER-10 Appendix 5 criteria. In summary:

- Acetone was detected in one VOC sample at 7 ug/kg (unrestricted use criterion is 50 ug/kg)
- Methylene chloride was detected in two VOC samples at 7 ug/kg and 4 ug/kg (unrestricted use criterion is 50 ug/kg)
- No SVOCs, pesticides, PCBs or cyanide were detected above laboratory detection limits.
- Several metals were detected at concentrations less than DER-10 Appendix 5 unrestricted use criteria.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Sultana Sand and Stone, Inc.

Location where fill was obtained:

Willseyville Mine, 225 Coddington Road, Candor, NY 13743

Identification of any state or local approvals as a fill source:

NYSDEC Permit ID 7-4924-00015, Mined Land ID 70704

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Mining permit (page 1 only), Adirondack laboratory report.

The information provided on this form is accurate and complete.

Signature

10/26/18

Date

David Rykaczewski

Print Name

WSP USA

Firm

Revised August 2014

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
KIM K WHETZEL
2935 SLATERVILLE RD
BROOKTONDALE, NY 14817-9504

Facility:
WILLSEYVILLE MINE
CODDINGTON ROAD
CANDOR, NY 13743

Facility Application Contact:
PATRICK M SNYDER
ATTORNEY AT LAW
70 PORT WATSON ST
CORTLAND, NY 13045-1090
(607) 753-8050

Facility Location: in CANDOR in TIOGA COUNTY
Facility Principal Reference Point: NYTM-E: 386.743 NYTM-N: 4684.521
Latitude: 42°18'16.9" Longitude: 76°22'26.8"
Authorized Activity: This permit authorizes mining activity on 29.8 acres of land during the permit term, within a 87 acre life-of-mine facility, on a 128 acre parcel of land, including specified processing equipment on lands owned by Kim K. Whetzel.

Permit Authorizations

Mined Land Reclamation - Under Article 23, Title 27
Permit ID 7-4924-00015/00001 (Mined Land ID 70704)
Renewal Effective Date: 1/19/2018 Expiration Date: 1/18/2023

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: JOSEPH M DLUGOLENSKI, Deputy Regional Permit Administrator
Address: NYSDEC Region 7 Cortland Sub-Office
1285 Fisher Ave
Cortland, NY 13045 -1090

Authorized Signature: _____ Date 01/04/2018

Adirondack Environmental Services, Inc

Date: *24-Oct-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Grab 1
Work Order:	**181016006**	**Collection Date:**	10/15/2018
Reference:	Import Fill /	**Lab Sample ID:**	181016006-001
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **SMD**
(Prep: SW5035A - 10/16/2018)						
Vinyl chloride	**ND**	14		µg/Kg-dry	1	10/22/2018 8:15:00 PM
Methylene chloride	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
Acetone	**ND**	14	S	µg/Kg-dry	1	10/22/2018 8:15:00 PM
1,1-Dichloroethene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
1,1-Dichloroethane	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
trans-1,2-Dichloroethene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
cis-1,2-Dichloroethene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
Chloroform	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
1,2-Dichloroethane	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
2-Butanone	**ND**	14		µg/Kg-dry	1	10/22/2018 8:15:00 PM
1,1,1-Trichloroethane	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
Carbon tetrachloride	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
Trichloroethene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
Benzene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
Tetrachloroethene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
Toluene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
Chlorobenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
Ethylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
m,p-Xylene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
o-Xylene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
Methyl tert-butyl ether	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
1,3-Dichlorobenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
1,2-Dichlorobenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
1,4-Dichlorobenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
1,4-Dioxane	**ND**	140		µg/Kg-dry	1	10/22/2018 8:15:00 PM
sec-Butylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
4-Isopropyltoluene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
n-Butylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
1,3,5-Trimethylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
tert-Butylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
1,2,4-Trimethylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
n-Propylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 8:15:00 PM
Surr: 1,2-Dichloroethane-d4	**102**	64.8-130		%REC	1	10/22/2018 8:15:00 PM
Surr: 4-Bromofluorobenzene	**113**	76.8-122		%REC	1	10/22/2018 8:15:00 PM
Surr: Toluene-d8	**99.6**	78.5-120		%REC	1	10/22/2018 8:15:00 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate
S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: *24-Oct-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Grab 1
Work Order:	**181016006**	**Collection Date:**	10/15/2018
Reference:	Import Fill /	**Lab Sample ID:**	181016006-001
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**
Percent Moisture	**19.1**	0.1		wt%	1	10/22/2018

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate
S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: *24-Oct-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Grab 2
Work Order:	**181016006**	**Collection Date:**	10/15/2018
Reference:	Import Fill /	**Lab Sample ID:**	181016006-002
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **SMD**
(Prep: SW5035A - 10/16/2018)						
Vinyl chloride	**ND**	10		µg/Kg-dry	1	10/22/2018 8:38:00 PM
Methylene chloride	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
Acetone	**7**	10	JS	µg/Kg-dry	1	10/22/2018 8:38:00 PM
1,1-Dichloroethene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
1,1-Dichloroethane	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
trans-1,2-Dichloroethene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
cis-1,2-Dichloroethene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
Chloroform	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
1,2-Dichloroethane	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
2-Butanone	**ND**	10		µg/Kg-dry	1	10/22/2018 8:38:00 PM
1,1,1-Trichloroethane	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
Carbon tetrachloride	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
Trichloroethene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
Benzene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
Tetrachloroethene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
Toluene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
Chlorobenzene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
Ethylbenzene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
m,p-Xylene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
o-Xylene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
Methyl tert-butyl ether	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
1,3-Dichlorobenzene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
1,2-Dichlorobenzene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
1,4-Dichlorobenzene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
1,4-Dioxane	**ND**	95		µg/Kg-dry	1	10/22/2018 8:38:00 PM
sec-Butylbenzene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
4-Isopropyltoluene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
n-Butylbenzene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
1,3,5-Trimethylbenzene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
tert-Butylbenzene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
1,2,4-Trimethylbenzene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
n-Propylbenzene	**ND**	5		µg/Kg-dry	1	10/22/2018 8:38:00 PM
Surr: 1,2-Dichloroethane-d4	**111**	64.8-130		%REC	1	10/22/2018 8:38:00 PM
Surr: 4-Bromofluorobenzene	**119**	76.8-122		%REC	1	10/22/2018 8:38:00 PM
Surr: Toluene-d8	**112**	78.5-120		%REC	1	10/22/2018 8:38:00 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate
S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: *24-Oct-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Grab 2
Work Order:	**181016006**	**Collection Date:**	10/15/2018
Reference:	Import Fill /	**Lab Sample ID:**	181016006-002
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**
Percent Moisture	**22.1**	0.1		wt%	1	10/22/2018

Qualifiers:

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J - Analyte detected below quanititation limits
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X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate
S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: *24-Oct-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Grab 3
Work Order:	**181016006**	**Collection Date:**	10/15/2018
Reference:	Import Fill /	**Lab Sample ID:**	181016006-003
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **SMD**
(Prep: SW5035A - 10/16/2018)						
Vinyl chloride	**ND**	15		µg/Kg-dry	1	10/22/2018 9:02:00 PM
Methylene chloride	**7**	7	J	µg/Kg-dry	1	10/22/2018 9:02:00 PM
Acetone	**ND**	15	S	µg/Kg-dry	1	10/22/2018 9:02:00 PM
1,1-Dichloroethene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
1,1-Dichloroethane	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
trans-1,2-Dichloroethene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
cis-1,2-Dichloroethene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
Chloroform	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
1,2-Dichloroethane	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
2-Butanone	**ND**	15		µg/Kg-dry	1	10/22/2018 9:02:00 PM
1,1,1-Trichloroethane	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
Carbon tetrachloride	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
Trichloroethene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
Benzene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
Tetrachloroethene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
Toluene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
Chlorobenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
Ethylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
m,p-Xylene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
o-Xylene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
Methyl tert-butyl ether	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
1,3-Dichlorobenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
1,2-Dichlorobenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
1,4-Dichlorobenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
1,4-Dioxane	**ND**	150		µg/Kg-dry	1	10/22/2018 9:02:00 PM
sec-Butylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
4-Isopropyltoluene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
n-Butylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
1,3,5-Trimethylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
tert-Butylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
1,2,4-Trimethylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
n-Propylbenzene	**ND**	7		µg/Kg-dry	1	10/22/2018 9:02:00 PM
Surr: 1,2-Dichloroethane-d4	**105**	64.8-130		%REC	1	10/22/2018 9:02:00 PM
Surr: 4-Bromofluorobenzene	**105**	76.8-122		%REC	1	10/22/2018 9:02:00 PM
Surr: Toluene-d8	**105**	78.5-120		%REC	1	10/22/2018 9:02:00 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**

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E - Value above quantitation range-Estimate
S - LCS Spike below accepted limits (+ above)
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Adirondack Environmental Services, Inc

Date: *24-Oct-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Grab 3
Work Order:	**181016006**	**Collection Date:**	10/15/2018
Reference:	Import Fill /	**Lab Sample ID:**	181016006-003
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**
Percent Moisture	**27.7**	0.1		wt%	1	10/22/2018

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E - Value above quantitation range-Estimate
S - LCS Spike below accepted limits (+ above)
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N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: *24-Oct-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Grab 4
Work Order:	**181016006**	**Collection Date:**	10/15/2018
Reference:	Import Fill /	**Lab Sample ID:**	181016006-004
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **SMD**
(Prep: SW5035A - 10/16/2018)						
Vinyl chloride	**ND**	13		µg/Kg-dry	1	10/22/2018 9:26:00 PM
Methylene chloride	**4**	6	J	µg/Kg-dry	1	10/22/2018 9:26:00 PM
Acetone	**ND**	13	S	µg/Kg-dry	1	10/22/2018 9:26:00 PM
1,1-Dichloroethene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
1,1-Dichloroethane	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
trans-1,2-Dichloroethene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
cis-1,2-Dichloroethene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
Chloroform	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
1,2-Dichloroethane	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
2-Butanone	**ND**	13		µg/Kg-dry	1	10/22/2018 9:26:00 PM
1,1,1-Trichloroethane	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
Carbon tetrachloride	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
Trichloroethene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
Benzene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
Tetrachloroethene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
Toluene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
Chlorobenzene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
Ethylbenzene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
m,p-Xylene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
o-Xylene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
Methyl tert-butyl ether	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
1,3-Dichlorobenzene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
1,2-Dichlorobenzene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
1,4-Dichlorobenzene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
1,4-Dioxane	**ND**	130		µg/Kg-dry	1	10/22/2018 9:26:00 PM
sec-Butylbenzene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
4-Isopropyltoluene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
n-Butylbenzene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
1,3,5-Trimethylbenzene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
tert-Butylbenzene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
1,2,4-Trimethylbenzene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
n-Propylbenzene	**ND**	6		µg/Kg-dry	1	10/22/2018 9:26:00 PM
Surr: 1,2-Dichloroethane-d4	**112**	64.8-130		%REC	1	10/22/2018 9:26:00 PM
Surr: 4-Bromofluorobenzene	**119**	76.8-122		%REC	1	10/22/2018 9:26:00 PM
Surr: Toluene-d8	**105**	78.5-120		%REC	1	10/22/2018 9:26:00 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**

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N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: *24-Oct-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Grab 4
Work Order:	**181016006**	**Collection Date:**	10/15/2018
Reference:	Import Fill /	**Lab Sample ID:**	181016006-004
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**
Percent Moisture	**17.9**	0.1		wt%	1	10/22/2018

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Adirondack Environmental Services, Inc

Date: *24-Oct-18*

CLIENT: OSC Inc
Work Order: **181016006**
Reference: Import Fill /
PO#:

Client Sample ID: Composite
Collection Date: 10/15/2018
Lab Sample ID: 181016006-005
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES - EPA 8081B						Analyst: **KF**
(Prep: SW3545A - 10/22/2018)						
4,4´-DDD	**ND**	4.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
4,4´-DDE	**ND**	4.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
4,4´-DDT	**ND**	4.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
Aldrin	**ND**	2.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
alpha-BHC	**ND**	2.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
alpha-Chlordane	**ND**	2.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
beta-BHC	**ND**	2.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
delta-BHC	**ND**	2.1	SN	µg/Kg-dry	1	10/22/2018 5:30:35 PM
Dieldrin	**ND**	4.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
Endosulfan I	**ND**	2.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
Endosulfan II	**ND**	4.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
Endosulfan sulfate	**ND**	4.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
Endrin	**ND**	4.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
gamma-BHC	**ND**	2.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
Heptachlor	**ND**	2.1		µg/Kg-dry	1	10/22/2018 5:30:35 PM
Surr: Decachlorobiphenyl	**70.0**	48.1-135		%REC	1	10/22/2018 5:30:35 PM
Surr: Tetrachloro-m-xylene	**75.2**	44.6-139		%REC	1	10/22/2018 5:30:35 PM
POLYCHLORINATED BIPHENYLS - EPA 8082A						Analyst: **KF**
(Prep: SW3545A - 10/22/2018)						
Aroclor 1016	**ND**	41		µg/Kg-dry	1	10/22/2018 10:34:45 AM
Aroclor 1221	**ND**	41		µg/Kg-dry	1	10/22/2018 10:34:45 AM
Aroclor 1232	**ND**	41		µg/Kg-dry	1	10/22/2018 10:34:45 AM
Aroclor 1242	**ND**	41		µg/Kg-dry	1	10/22/2018 10:34:45 AM
Aroclor 1248	**ND**	41		µg/Kg-dry	1	10/22/2018 10:34:45 AM
Aroclor 1254	**ND**	41		µg/Kg-dry	1	10/22/2018 10:34:45 AM
Aroclor 1260	**ND**	41		µg/Kg-dry	1	10/22/2018 10:34:45 AM
Aroclor 1262	**ND**	41		µg/Kg-dry	1	10/22/2018 10:34:45 AM
Aroclor 1268	**ND**	41		µg/Kg-dry	1	10/22/2018 10:34:45 AM
Surr: Decachlorobiphenyl	**78.6**	48.1-152		%REC	1	10/22/2018 10:34:45 AM
CHLORINATED HERBICIDES - EPA 8321B						Analyst: **KF**
(Prep: SW3545A - 10/22/2018)						
2,4,5-TP (Silvex)	**ND**	373		µg/Kg-dry	1	10/22/2018 1:30:06 PM
Surr: Acifluorfen	**95.0**	51.2-145		%REC	1	10/22/2018 1:30:06 PM
MERCURY - SW 7471B						Analyst: **AVB**
(Prep: SW7471B - 10/17/2018)						

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Adirondack Environmental Services, Inc

Date: *24-Oct-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Composite
Work Order:	**181016006**	**Collection Date:**	10/15/2018
Reference:	Import Fill /	**Lab Sample ID:**	181016006-005
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY - SW 7471B						Analyst: **AVB**
(Prep: SW7471B - 10/17/2018)						
Mercury	**0.126**	0.249	JN+	µg/g-dry	1	10/17/2018 10:57:52 AM
ICP METALS EPA 6010C						Analyst: **KH**
(Prep: SW3050B - 10/17/2018)						
Arsenic	**ND**	1.24		µg/g-dry	1	10/18/2018 2:27:00 PM
Barium	**169**	2.49		µg/g-dry	1	10/18/2018 2:27:00 PM
Beryllium	**0.82**	1.24	J	µg/g-dry	1	10/18/2018 2:27:00 PM
Cadmium	**0.23**	1.24	J	µg/g-dry	1	10/18/2018 2:27:00 PM
Chromium	**16.3**	1.24		µg/g-dry	1	10/18/2018 2:27:00 PM
Copper	**16.1**	1.24		µg/g-dry	1	10/18/2018 2:27:00 PM
Lead	**17.2**	1.24	N+	µg/g-dry	1	10/18/2018 2:27:00 PM
Manganese	**1120**	2.49		µg/g-dry	1	10/18/2018 2:27:00 PM
Nickel	**19.5**	4.98		µg/g-dry	1	10/18/2018 2:27:00 PM
Selenium	**ND**	1.24	N	µg/g-dry	1	10/18/2018 2:27:00 PM
Silver	**ND**	2.49	N	µg/g-dry	1	10/18/2018 2:27:00 PM
Zinc	**131**	2.49		µg/g-dry	1	10/18/2018 2:27:00 PM
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **MT**
(Prep: SW3545A - 10/19/2018)						
Phenol	**ND**	310		µg/Kg-dry	1	10/24/2018 11:15:00 AM
2-Methylphenol	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
4-Methylphenol & 3-Methlyphenol	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Naphthalene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Acenaphthylene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Acenaphthene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Dibenzofuran	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Fluorene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Hexachlorobenzene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Pentachlorophenol	**ND**	2100	N	µg/Kg-dry	1	10/24/2018 11:15:00 AM
Phenanthrene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Anthracene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Fluoranthene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Pyrene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Benz(a)anthracene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Chrysene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Benzo(b)fluoranthene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Benzo(k)fluoranthene	**ND**	310		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Benzo(a)pyrene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM

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Adirondack Environmental Services, Inc

Date: *24-Oct-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Composite
Work Order:	**181016006**	**Collection Date:**	10/15/2018
Reference:	Import Fill /	**Lab Sample ID:**	181016006-005
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **MT**
(Prep: SW3545A - 10/19/2018)						
Indeno(1,2,3-cd)pyrene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Dibenz(a,h)anthracene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Benzo(g,h,i)perylene	**ND**	410		µg/Kg-dry	1	10/24/2018 11:15:00 AM
Surr: 2,4,6-Tribromophenol	**70.4**	26.5-126		%REC	1	10/24/2018 11:15:00 AM
Surr: 2-Fluorobiphenyl	**73.0**	32-136		%REC	1	10/24/2018 11:15:00 AM
Surr: 2-Fluorophenol	**57.5**	30.3-104		%REC	1	10/24/2018 11:15:00 AM
Surr: 4-Terphenyl-d14	**82.5**	30.1-145		%REC	1	10/24/2018 11:15:00 AM
Surr: Nitrobenzene-d5	**65.4**	19.5-123		%REC	1	10/24/2018 11:15:00 AM
Surr: Phenol-d5	**63.0**	27-122		%REC	1	10/24/2018 11:15:00 AM
CYANIDE, TOTAL - SW 9012B						Analyst: **KB**
(Prep: 9010C - 10/18/2018)						
Cyanide	**ND**	0.62		µg/g-dry	1	10/18/2018 3:48:23 PM
HEXAVALENT CHROMIUM - SW 7196A (3060A)						Analyst: **DAA**
(Prep: SW3060A - 10/22/2018)						
Chromium, Hexavalent	**ND**	1.2		µg/g-dry	1	10/22/2018 1:35:00 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**
Percent Moisture	**19.6**	0.1		wt%	1	10/22/2018

Qualifiers:

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Adirondack Environmental Services Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546 ◆ Fax: 518-434-0891

EXPERIENCE IS THE SOLUTION

CHAIN OF CUSTODY RECORD

AES Work Order#: 181016006

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: OSC, Inc.	Address:
Send Report to: Alen Trpevski / Don Flanigan	Project Name (Location): Import Fill
Client Phone No: 716-856-3333 ext 303 / 716-856-3333	PO #:
Client Fax No:	
Samplers Name: K. Ambre	
Samplers Signature:	

AES Sample ID	Client Sample ID:	Date Sampled	Time A=am P=pm		Sample Type Matrix	C	G	# of Cont's	Analysis
001	Grab 1	10/15/16	0845	A/P	Soil		X	24	DER-10 VOCs / Percent Moisture
002	Grab 2		0853	A/P			X	3	DER-10 VOCs / Percent Moisture
003	Grab 3		0859	A/P			X	3	DER-10 VOCs / Percent Moisture
004	Grab 4		0905	A/P			X	3	DER-10 VOCs / Percent Moisture
005	Composite		0908	A/P		X		1	DER-10 Part 375 Metals, SVOCs, Pesticides (incl Silvex), PCBs, Hex Chrom
				A/P					
				A/P					
				A/P					
				A/P					
				A/P					
				A/P					
				A/P					

Shipment Arrived Via: FedEx UPS Client AES Other: _____

Turnaround Time Requested:
☐ 1 Day ☐ 3 Day ☐ Normal
☐ 2 Day ☑ 5 Day CLP

Special Instructions/Remarks:
atrpevski@oscinc.com
dflanigan@oscinc.com

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received for Laboratory by:	Date: 10/16/16	Time: 12:13 PM

Sample Temperature	Properly Preserved	Received Within Holding Times
Ambient Chilled (Chilled circled)	Y N (Y circled)	Y N (Y circled)
Chilling Process begun		
Notes: 4°C	Notes:	Notes:

Demo
181016006

Rykaczewski, Dave A.

From: Cahill, Karen A (DEC) <karen.cahill@dec.ny.gov>
Sent: Tuesday, October 30, 2018 3:10 PM
To: Rykaczewski, Dave A.
Cc: Steve.Clarke@emerson.com
Subject: FW: Ithaca - Request for Fill Approval - Topsoil
Attachments: EPT Ithaca - Request to Import Fill (Topsoil).pdf

Dave,

I have reviewed the attached request to import topsoil stripped from Willseyville Mine, Candor, NY (Permit ID 7-4924-00015) and hereby approve. Thank you.

Karen A. Cahill
Assistant Engineer, Division of Environmental Remediation

New York State Department of Environmental Conservation
615 Erie Blvd. W., Syracuse, NY 13204-2400
P: (315) 426-7432 | M: (315) 289-6788 | F: (315) 426-2653 | karen.cahill@dec.ny.gov
www.dec.ny.gov | | |

From: Rykaczewski, Dave A. <Dave.Rykaczewski@wsp.com>
Sent: Friday, October 26, 2018 7:00 PM
To: Cahill, Karen A (DEC) <karen.cahill@dec.ny.gov>
Cc: Steve.Clarke@emerson.com
Subject: Ithaca - Request for Fill Approval - Topsoil

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Karen,

Attached is the "Request to Import/Reuse Fill or Soil" form for Topsoil that is proposed for use as the vegetation medium for the areas to be restored with grass. The samples collected to date represents the first 300 CY of the 750 CY that we will need for the job. The topsoil is being stripped from the surface of the same mine where we are getting the Item 4 gravel. Please respond with your approval of the fill from this source.

Thanks,
Dave

Dave Rykaczewski, PE
Senior Technical Manager
Water & Environment

11 Stanwix Street, Suite 950, Pittsburgh, PA 15222
Direct: +1-412-375-0282

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 500-800

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Additional samples were collected to approve an additional 700 cubic yards of topsoil for use at the EPT site. The topsoil is being stripped from the surface at the same permitted mine site (see Section 4) that the first set of samples were collected to approve the first 300 cubic yards of topsoil (DEC approval on October 30, 2018).

For this request, three additional discrete samples were collected and analyzed for VOCs and one composite sample (3 to 5 discrete samples from the fill site) was collected and analyzed for SVOCs, Inorganics, PCBs, and Pesticides. Together with the topsoil samples previously collected, these samples have been collected to approve up to 1,000 cubic yards of topsoil from this source.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

The laboratory report from Adirondack Environmental Services is attached. There were no exceedences of DER-10 Appendix 5 criteria. In summary:

- No VOCs were detected above laboratory detection limits in the three discrete samples.
- No SVOCs, pesticides, PCBs or cyanide were detected above laboratory detection limits in the composite sample
- Several metals were detected in the composite sample. Cadmium was detected at a concentration of 3.11 mg/kg which is slightly above the unrestricted use criterion of 2.5 mg/kg, but below the restricted residential criterion of 4.3 mg/kg. All other detected metal concentrations were less than DER-10 Appendix 5 unrestricted use criteria.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Sultana Sand and Stone, Inc.

Location where fill was obtained:

Willseyville Mine, 225 Coddington Road, Candor, NY 13743

Identification of any state or local approvals as a fill source:

NYSDEC Permit ID 7-4924-00015, Mined Land ID 70704

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Mining permit (page 1 only), Adirondack laboratory report.

The information provided on this form is accurate and complete.

Signature

12/8/18

Date

David Rykaczewski

Print Name

WSP USA

Firm

Revised August 2014

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
KIM K WHETZEL
2935 SLATERVILLE RD
BROOKTONDALE, NY 14817-9504

Facility:
WILLSEYVILLE MINE
CODDINGTON ROAD
CANDOR, NY 13743

Facility Application Contact:
PATRICK M SNYDER
ATTORNEY AT LAW
70 PORT WATSON ST
CORTLAND, NY 13045-1090
(607) 753-8050

Facility Location: in CANDOR in TIOGA COUNTY
Facility Principal Reference Point: NYTM-E: 386.743 NYTM-N: 4684.521
Latitude: 42°18'16.9" Longitude: 76°22'26.8"
Authorized Activity: This permit authorizes mining activity on 29.8 acres of land during the permit term, within a 87 acre life-of-mine facility, on a 128 acre parcel of land, including specified processing equipment on lands owned by Kim K. Whetzel.

Permit Authorizations

Mined Land Reclamation - Under Article 23, Title 27
Permit ID 7-4924-00015/00001 (Mined Land ID 70704)
Renewal Effective Date: 1/19/2018 Expiration Date: 1/18/2023

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: JOSEPH M DLUGOLENSKI, Deputy Regional Permit Administrator
Address: NYSDEC Region 7 Cortland Sub-Office
1285 Fisher Ave
Cortland, NY 13045 -1090

Authorized Signature: _____ Date 01/04/2018

Adirondack Environmental Services, Inc.®
Experience is the solution
314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

November 21, 2018

Dan Flanigan
OSC Inc
333 Ganson Street
Buffalo, NY 14203

TEL: (716) 856-3333

Work Order No: 181107001

RE: OSC Soil Characterization

Dear Dan Flanigan:

Adirondack Environmental Services, Inc received 6 samples on 11/7/2018 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

Krzysztof Trafalski
Laboratory Manager

Adirondack Environmental Services, Inc — CASE NARRATIVE

CLIENT:	OSC Inc	**Date:**	*21-Nov-18*
Project:	OSC Soil Characterization		
Lab Order:	181107001		

The sampling was performed in accordance with the AES field sampling procedures and/or the client specified sampling procedures. Sample containers were supplied by Adirondack Environmental Services.

The analysis for TCLP was completed using totals analysis for the following constituents. This is allowed by method SW-846 1311 as per section 1.2.

-Volatile Organics
-Semi-Volatile Organics

Analytical Comments for EPA Method 8260: Samples Grab 3 Top Soil, F001 and AOC1 Non-Haz had a low recovery for the internal standard 1,4-Dichlorobenzene-d4.

Definitions - RL: Reporting Limit DF: Dilution factor

Qualifiers:		
	ND : Not Detected at reporting limit	C: CCV below acceptable Limits
	J: Analyte detected below quantitation limit	C+: CCV above acceptable Limits
	B: Analyte detected in Blank	S: LCS Spike recovery is below acceptable limits
	X : Exceeds maximum contamination limit	S+: LCS Spike recovery is above acceptable limits
	H: Hold time exceeded	Z: Duplication outside acceptable limits
	N: Matrix Spike below acceptable limits	T : Tentatively Identified Compound-Estimated
	N+: Matrix Spike is above acceptable limits	E :Above quantitation range-Estimated

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

Adirondack Environmental Services, Inc

Date: *21-Nov-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Grab 1 Top Soil
Work Order:	**181107001**	**Collection Date:**	11/6/2018
Reference:	OSC Soil Characterization /	**Lab Sample ID:**	181107001-001
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **SMD**
(Prep: SW5035A - 11/7/2018)						
Vinyl chloride	**ND**	14	SC	µg/Kg-dry	1	11/7/2018 7:50:00 PM
Methylene chloride	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
Acetone	**ND**	14		µg/Kg-dry	1	11/7/2018 7:50:00 PM
1,1-Dichloroethene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
1,1-Dichloroethane	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
trans-1,2-Dichloroethene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
cis-1,2-Dichloroethene	**ND**	7	C	µg/Kg-dry	1	11/7/2018 7:50:00 PM
Chloroform	**ND**	7	C	µg/Kg-dry	1	11/7/2018 7:50:00 PM
1,2-Dichloroethane	**ND**	7	C	µg/Kg-dry	1	11/7/2018 7:50:00 PM
2-Butanone	**ND**	14	SC	µg/Kg-dry	1	11/7/2018 7:50:00 PM
1,1,1-Trichloroethane	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
Carbon tetrachloride	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
Trichloroethene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
Benzene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
Tetrachloroethene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
Toluene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
Chlorobenzene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
Ethylbenzene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
m,p-Xylene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
o-Xylene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
Methyl tert-butyl ether	**ND**	7	C	µg/Kg-dry	1	11/7/2018 7:50:00 PM
1,3-Dichlorobenzene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
1,2-Dichlorobenzene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
1,4-Dichlorobenzene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
1,4-Dioxane	**ND**	140		µg/Kg-dry	1	11/7/2018 7:50:00 PM
sec-Butylbenzene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
4-Isopropyltoluene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
n-Butylbenzene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
1,3,5-Trimethylbenzene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
tert-Butylbenzene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
1,2,4-Trimethylbenzene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
n-Propylbenzene	**ND**	7		µg/Kg-dry	1	11/7/2018 7:50:00 PM
Surr: 1,2-Dichloroethane-d4	**98.5**	64.8-130		%REC	1	11/7/2018 7:50:00 PM
Surr: 4-Bromofluorobenzene	**103**	76.8-122		%REC	1	11/7/2018 7:50:00 PM
Surr: Toluene-d8	**108**	78.5-120		%REC	1	11/7/2018 7:50:00 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**
Percent Moisture	**18.6**	0.1		wt%	1	11/15/2018

Adirondack Environmental Services, Inc

Date: *21-Nov-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Grab 2 Top Soil
Work Order:	**181107001**	**Collection Date:**	11/6/2018
Reference:	OSC Soil Characterization /	**Lab Sample ID:**	181107001-002
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **SMD**
(Prep: SW5035A - 11/7/2018)						
Vinyl chloride	**ND**	12	SC	µg/Kg-dry	1	11/7/2018 8:14:00 PM
Methylene chloride	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
Acetone	**ND**	12		µg/Kg-dry	1	11/7/2018 8:14:00 PM
1,1-Dichloroethene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
1,1-Dichloroethane	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
trans-1,2-Dichloroethene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
cis-1,2-Dichloroethene	**ND**	6	C	µg/Kg-dry	1	11/7/2018 8:14:00 PM
Chloroform	**ND**	6	C	µg/Kg-dry	1	11/7/2018 8:14:00 PM
1,2-Dichloroethane	**ND**	6	C	µg/Kg-dry	1	11/7/2018 8:14:00 PM
2-Butanone	**ND**	12	SC	µg/Kg-dry	1	11/7/2018 8:14:00 PM
1,1,1-Trichloroethane	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
Carbon tetrachloride	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
Trichloroethene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
Benzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
Tetrachloroethene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
Toluene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
Chlorobenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
Ethylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
m,p-Xylene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
o-Xylene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
Methyl tert-butyl ether	**ND**	6	C	µg/Kg-dry	1	11/7/2018 8:14:00 PM
1,3-Dichlorobenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
1,2-Dichlorobenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
1,4-Dichlorobenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
1,4-Dioxane	**ND**	120		µg/Kg-dry	1	11/7/2018 8:14:00 PM
sec-Butylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
4-Isopropyltoluene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
n-Butylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
1,3,5-Trimethylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
tert-Butylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
1,2,4-Trimethylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
n-Propylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:14:00 PM
Surr: 1,2-Dichloroethane-d4	**97.8**	64.8-130		%REC	1	11/7/2018 8:14:00 PM
Surr: 4-Bromofluorobenzene	**113**	76.8-122		%REC	1	11/7/2018 8:14:00 PM
Surr: Toluene-d8	**113**	78.5-120		%REC	1	11/7/2018 8:14:00 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**
Percent Moisture	**18.5**	0.1		wt%	1	11/15/2018

Adirondack Environmental Services, Inc

Date: *21-Nov-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Grab 3 Top Soil
Work Order:	**181107001**	**Collection Date:**	11/6/2018
Reference:	OSC Soil Characterization /	**Lab Sample ID:**	181107001-003
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **SMD**
(Prep: SW5035A - 11/7/2018)						
Vinyl chloride	**ND**	12	SC	µg/Kg-dry	1	11/7/2018 8:38:00 PM
Methylene chloride	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
Acetone	**ND**	12		µg/Kg-dry	1	11/7/2018 8:38:00 PM
1,1-Dichloroethene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
1,1-Dichloroethane	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
trans-1,2-Dichloroethene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
cis-1,2-Dichloroethene	**ND**	6	C	µg/Kg-dry	1	11/7/2018 8:38:00 PM
Chloroform	**ND**	6	C	µg/Kg-dry	1	11/7/2018 8:38:00 PM
1,2-Dichloroethane	**ND**	6	C	µg/Kg-dry	1	11/7/2018 8:38:00 PM
2-Butanone	**ND**	12	SC	µg/Kg-dry	1	11/7/2018 8:38:00 PM
1,1,1-Trichloroethane	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
Carbon tetrachloride	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
Trichloroethene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
Benzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
Tetrachloroethene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
Toluene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
Chlorobenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
Ethylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
m,p-Xylene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
o-Xylene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
Methyl tert-butyl ether	**ND**	6	C	µg/Kg-dry	1	11/7/2018 8:38:00 PM
1,3-Dichlorobenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
1,2-Dichlorobenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
1,4-Dichlorobenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
1,4-Dioxane	**ND**	120		µg/Kg-dry	1	11/7/2018 8:38:00 PM
sec-Butylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
4-Isopropyltoluene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
n-Butylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
1,3,5-Trimethylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
tert-Butylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
1,2,4-Trimethylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
n-Propylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 8:38:00 PM
Surr: 1,2-Dichloroethane-d4	**92.6**	64.8-130		%REC	1	11/7/2018 8:38:00 PM
Surr: 4-Bromofluorobenzene	**96.4**	76.8-122		%REC	1	11/7/2018 8:38:00 PM
Surr: Toluene-d8	**104**	78.5-120		%REC	1	11/7/2018 8:38:00 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**
Percent Moisture	**19.7**	0.1		wt%	1	11/15/2018

Adirondack Environmental Services, Inc

Date: *21-Nov-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Composite Top Soil
Work Order:	**181107001**	**Collection Date:**	11/6/2018
Reference:	OSC Soil Characterization /	**Lab Sample ID:**	181107001-004
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES - EPA 8081B						Analyst: **KF**
(Prep: SW3545A - 11/8/2018)						
4,4´-DDD	**ND**	3.9		µg/Kg-dry	1	11/8/2018 10:07:33 PM
4,4´-DDE	**ND**	3.9		µg/Kg-dry	1	11/8/2018 10:07:33 PM
4,4´-DDT	**ND**	3.9		µg/Kg-dry	1	11/8/2018 10:07:33 PM
Aldrin	**ND**	2.0		µg/Kg-dry	1	11/8/2018 10:07:33 PM
alpha-BHC	**ND**	2.0		µg/Kg-dry	1	11/8/2018 10:07:33 PM
alpha-Chlordane	**ND**	2.0		µg/Kg-dry	1	11/8/2018 10:07:33 PM
beta-BHC	**ND**	2.0		µg/Kg-dry	1	11/8/2018 10:07:33 PM
delta-BHC	**ND**	2.0	S	µg/Kg-dry	1	11/8/2018 10:07:33 PM
Dieldrin	**ND**	3.9		µg/Kg-dry	1	11/8/2018 10:07:33 PM
Endosulfan I	**ND**	2.0		µg/Kg-dry	1	11/8/2018 10:07:33 PM
Endosulfan II	**ND**	3.9		µg/Kg-dry	1	11/8/2018 10:07:33 PM
Endosulfan sulfate	**ND**	3.9		µg/Kg-dry	1	11/8/2018 10:07:33 PM
Endrin	**ND**	3.9		µg/Kg-dry	1	11/8/2018 10:07:33 PM
gamma-BHC	**ND**	2.0		µg/Kg-dry	1	11/8/2018 10:07:33 PM
Heptachlor	**ND**	2.0		µg/Kg-dry	1	11/8/2018 10:07:33 PM
Surr: Decachlorobiphenyl	**102**	48.1-135		%REC	1	11/8/2018 10:07:33 PM
Surr: Tetrachloro-m-xylene	**106**	44.6-139		%REC	1	11/8/2018 10:07:33 PM
POLYCHLORINATED BIPHENYLS - EPA 8082A						Analyst: **KF**
(Prep: SW3545A - 11/8/2018)						
Aroclor 1016	**ND**	39		µg/Kg-dry	1	11/8/2018 7:19:38 PM
Aroclor 1221	**ND**	39		µg/Kg-dry	1	11/8/2018 7:19:38 PM
Aroclor 1232	**ND**	39		µg/Kg-dry	1	11/8/2018 7:19:38 PM
Aroclor 1242	**ND**	39		µg/Kg-dry	1	11/8/2018 7:19:38 PM
Aroclor 1248	**ND**	39		µg/Kg-dry	1	11/8/2018 7:19:38 PM
Aroclor 1254	**ND**	39		µg/Kg-dry	1	11/8/2018 7:19:38 PM
Aroclor 1260	**ND**	39		µg/Kg-dry	1	11/8/2018 7:19:38 PM
Aroclor 1262	**ND**	39		µg/Kg-dry	1	11/8/2018 7:19:38 PM
Aroclor 1268	**ND**	39		µg/Kg-dry	1	11/8/2018 7:19:38 PM
Surr: Decachlorobiphenyl	**88.6**	48.1-152		%REC	1	11/8/2018 7:19:38 PM
CHLORINATED HERBICIDES - EPA 8321B						Analyst: **KF**
(Prep: SW3545A - 11/8/2018)						
2,4,5-TP (Silvex)	**ND**	353		µg/Kg-dry	1	11/8/2018 9:32:06 PM
Surr: Acifluorfen	**121**	51.2-145		%REC	1	11/8/2018 9:32:06 PM
ICP METALS-EPA 6010C						Analyst: **WB**
(Prep: SW3050B - 11/7/2018)						
Arsenic	**ND**	0.294	N	µg/g-dry	1	11/13/2018 2:26:01 PM
Barium	**116**	0.588		µg/g-dry	1	11/13/2018 2:26:01 PM

Adirondack Environmental Services, Inc

Date: *21-Nov-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Composite Top Soil
Work Order:	**181107001**	**Collection Date:**	11/6/2018
Reference:	OSC Soil Characterization /	**Lab Sample ID:**	181107001-004
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS-EPA 6010C						Analyst: **WB**
(Prep: SW3050B - 11/7/2018)						
Beryllium	**0.334**	0.294		µg/g-dry	1	11/13/2018 2:26:01 PM
Cadmium	**3.11**	0.294		µg/g-dry	1	11/13/2018 2:26:01 PM
Chromium	**16.1**	0.294		µg/g-dry	1	11/13/2018 2:26:01 PM
Copper	**17.4**	0.294	N	µg/g-dry	1	11/13/2018 2:26:01 PM
Lead	**17.0**	0.294		µg/g-dry	1	11/13/2018 2:26:01 PM
Manganese	**1170**	5.88		µg/g-dry	10	11/13/2018 2:30:18 PM
Manganese	**931**	0.588		µg/g-dry	1	11/13/2018 2:26:01 PM
Nickel	**20.1**	2.94		µg/g-dry	1	11/13/2018 2:26:01 PM
Selenium	**ND**	0.294		µg/g-dry	1	11/13/2018 2:26:01 PM
Silver	**ND**	1.18	N	µg/g-dry	1	11/13/2018 2:26:01 PM
Zinc	**16.0**	0.588	N	µg/g-dry	1	11/13/2018 2:26:01 PM
MERCURY - SW 7471B						Analyst: **AVB**
(Prep: SW7471B - 11/7/2018)						
Mercury	**0.046**	0.024		µg/g-dry	1	11/7/2018 2:09:51 PM
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **MT**
(Prep: SW3545A - 11/15/2018)						
Phenol	**ND**	290		µg/Kg-dry	1	11/19/2018 7:59:00 PM
2-Methylphenol	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
4-Methylphenol & 3-Methlyphenol	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Naphthalene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Acenaphthylene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Acenaphthene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Dibenzofuran	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Fluorene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Hexachlorobenzene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Pentachlorophenol	**ND**	2000		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Phenanthrene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Anthracene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Fluoranthene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Pyrene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Benz(a)anthracene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Chrysene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Benzo(b)fluoranthene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Benzo(k)fluoranthene	**ND**	290		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Benzo(a)pyrene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Indeno(1,2,3-cd)pyrene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Dibenz(a,h)anthracene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM
Benzo(g,h,i)perylene	**ND**	390		µg/Kg-dry	1	11/19/2018 7:59:00 PM

Adirondack Environmental Services, Inc

Date: *21-Nov-18*

CLIENT:	OSC Inc	**Client Sample ID:**	Composite Top Soil
Work Order:	**181107001**	**Collection Date:**	11/6/2018
Reference:	OSC Soil Characterization /	**Lab Sample ID:**	181107001-004
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **MT**
(Prep: SW3545A - 11/15/2018)						
Surr: 2,4,6-Tribromophenol	**53.0**	26.5-126		%REC	1	11/19/2018 7:59:00 PM
Surr: 2-Fluorobiphenyl	**55.6**	32-136		%REC	1	11/19/2018 7:59:00 PM
Surr: 2-Fluorophenol	**26.3**	30.3-104	S	%REC	1	11/19/2018 7:59:00 PM
Surr: 4-Terphenyl-d14	**66.9**	30.1-145		%REC	1	11/19/2018 7:59:00 PM
Surr: Nitrobenzene-d5	**39.9**	19.5-123		%REC	1	11/19/2018 7:59:00 PM
Surr: Phenol-d5	**29.9**	27-122		%REC	1	11/19/2018 7:59:00 PM
CYANIDE, TOTAL - SW 9012B						Analyst: **KB**
(Prep: 9010C - 11/9/2018)						
Cyanide	**ND**	0.59		µg/g-dry	1	11/9/2018 3:55:15 PM
HEXAVALENT CHROMIUM - SW 7196A (3060A)						Analyst: **DAA**
(Prep: SW3060A - 11/9/2018)						
Chromium, Hexavalent	**ND**	1.2	N	µg/g-dry	1	11/13/2018 9:24:00 AM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**
Percent Moisture	**14.9**	0.1		wt%	1	11/15/2018

Adirondack Environmental Services, Inc

Date: *21-Nov-18*

CLIENT: OSC Inc
Work Order: **181107001**
Reference: OSC Soil Characterization /
PO#:

Client Sample ID: F001
Collection Date: 11/6/2018
Lab Sample ID: 181107001-005
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP MERCURY - SW1311/7470A						Analyst: **AVB**
(Prep: SW7470A - 11/9/2018)						
Mercury-TCLP	**ND**	0.002		mg/L	1	11/9/2018 12:46:36 PM
TCLP METALS - SW1311/6010C						Analyst: **WB**
(Prep: SW1311 - 11/8/2018)						
Arsenic-TCLP	**ND**	0.050		mg/L	1	11/12/2018 12:51:48 PM
Barium-TCLP	**0.912**	0.100		mg/L	1	11/12/2018 12:51:48 PM
Cadmium-TCLP	**ND**	0.050		mg/L	1	11/12/2018 12:51:48 PM
Chromium-TCLP	**ND**	0.050		mg/L	1	11/12/2018 12:51:48 PM
Lead-TCLP	**ND**	0.050		mg/L	1	11/12/2018 12:51:48 PM
Selenium-TCLP	**ND**	0.050		mg/L	1	11/12/2018 12:51:48 PM
Silver-TCLP	**ND**	0.100		mg/L	1	11/12/2018 12:51:48 PM
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **SMD**
(Prep: SW5035A - 11/7/2018)						
Chloromethane	**ND**	11	SC	µg/Kg-dry	1	11/7/2018 6:39:00 PM
Bromomethane	**ND**	11		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Vinyl chloride	**ND**	11	SC	µg/Kg-dry	1	11/7/2018 6:39:00 PM
Chloroethane	**ND**	11		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Methylene chloride	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Acetone	**ND**	11		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Carbon disulfide	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,1-Dichloroethene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,1-Dichloroethane	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
trans-1,2-Dichloroethene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
cis-1,2-Dichloroethene	**ND**	6	C	µg/Kg-dry	1	11/7/2018 6:39:00 PM
Chloroform	**ND**	6	C	µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,2-Dichloroethane	**ND**	6	C	µg/Kg-dry	1	11/7/2018 6:39:00 PM
2-Butanone	**ND**	11	SC	µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,1,1-Trichloroethane	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Carbon tetrachloride	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Bromodichloromethane	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,2-Dichloropropane	**ND**	6	S	µg/Kg-dry	1	11/7/2018 6:39:00 PM
cis-1,3-Dichloropropene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Trichloroethene	**1700**	6	ZE	µg/Kg-dry	1	11/7/2018 6:39:00 PM
Dibromochloromethane	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,1,2-Trichloroethane	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Benzene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
trans-1,3-Dichloropropene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Bromoform	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
4-Methyl-2-pentanone	**ND**	11		µg/Kg-dry	1	11/7/2018 6:39:00 PM

Data on This Page is Not Applicable to Submittal

Adirondack Environmental Services, Inc

Date: *21-Nov-18*

CLIENT: OSC Inc
Work Order: **181107001**
Reference: OSC Soil Characterization /
PO#:

Client Sample ID: F001
Collection Date: 11/6/2018
Lab Sample ID: 181107001-005
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **SMD**
(Prep: SW5035A - 11/7/2018)						
2-Hexanone	**ND**	11	C	µg/Kg-dry	1	11/7/2018 6:39:00 PM
Tetrachloroethene	**34**	6	Z	µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,1,2,2-Tetrachloroethane	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Toluene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Chlorobenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Ethylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Styrene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
m,p-Xylene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
o-Xylene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Methyl tert-butyl ether	**ND**	6	C	µg/Kg-dry	1	11/7/2018 6:39:00 PM
Dichlorodifluoromethane	**ND**	6	SC	µg/Kg-dry	1	11/7/2018 6:39:00 PM
Methyl Acetate	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Trichlorofluoromethane	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Cyclohexane	**ND**	11		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Methyl Cyclohexane	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,2-Dibromoethane	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,3-Dichlorobenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Isopropylbenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,2-Dichlorobenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,4-Dichlorobenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,2-Dibromo-3-chloropropane	**ND**	11		µg/Kg-dry	1	11/7/2018 6:39:00 PM
1,2,4-Trichlorobenzene	**ND**	6		µg/Kg-dry	1	11/7/2018 6:39:00 PM
Surr: 1,2-Dichloroethane-d4	**97.9**	64.8-130		%REC	1	11/7/2018 6:39:00 PM
Surr: 4-Bromofluorobenzene	**116**	76.8-122		%REC	1	11/7/2018 6:39:00 PM
Surr: Toluene-d8	**124**	78.5-120	S	%REC	1	11/7/2018 6:39:00 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**
Percent Moisture	**12.9**	0.1		wt%	1	11/15/2018

Data on This Page is Not Applicable to Submittal

Adirondack Environmental Services, Inc

Date: *21-Nov-18*

CLIENT: OSC Inc
Work Order: **181107001**
Reference: OSC Soil Characterization /
PO#:

Client Sample ID: AOC1 Non-Haz
Collection Date: 11/6/2018
Lab Sample ID: 181107001-006
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP MERCURY - SW1311/7470A						Analyst: **AVB**
(Prep: SW7470A - 11/8/2018)						
Mercury-TCLP	**ND**	0.002		mg/L	1	11/8/2018 1:17:38 PM
TCLP METALS - SW1311/6010C						Analyst: **KH**
(Prep: SW1311 - 11/7/2018)						
Arsenic-TCLP	**ND**	0.050		mg/L	1	11/8/2018 1:22:42 PM
Barium-TCLP	**0.657**	0.100		mg/L	1	11/8/2018 1:22:42 PM
Cadmium-TCLP	**ND**	0.050		mg/L	1	11/8/2018 1:22:42 PM
Chromium-TCLP	**ND**	0.050		mg/L	1	11/8/2018 1:22:42 PM
Lead-TCLP	**0.058**	0.050		mg/L	1	11/8/2018 1:22:42 PM
Selenium-TCLP	**ND**	0.050		mg/L	1	11/8/2018 1:22:42 PM
Silver-TCLP	**ND**	0.100		mg/L	1	11/8/2018 1:22:42 PM
TCLP SEMI-VOLATILES AS TOTALS - EPA 8270D						Analyst: **MT**
(Prep: SW3545A - 11/15/2018)						
1,4-Dichlorobenzene	**ND**	0.36		µg/g-dry	1	11/20/2018 12:45:00 PM
2,4,5-Trichlorophenol	**ND**	1.80		µg/g-dry	1	11/20/2018 12:45:00 PM
2,4,6-Trichlorophenol	**ND**	1.80		µg/g-dry	1	11/20/2018 12:45:00 PM
2,4-Dinitrotoluene	**ND**	0.36		µg/g-dry	1	11/20/2018 12:45:00 PM
2-Methylphenol	**ND**	0.36		µg/g-dry	1	11/20/2018 12:45:00 PM
4-Methylphenol & 3-Methlyphenol	**ND**	0.36		µg/g-dry	1	11/20/2018 12:45:00 PM
Hexachlorobenzene	**ND**	0.36		µg/g-dry	1	11/20/2018 12:45:00 PM
Hexachlorobutadiene	**ND**	0.36		µg/g-dry	1	11/20/2018 12:45:00 PM
Hexachloroethane	**ND**	0.36		µg/g-dry	1	11/20/2018 12:45:00 PM
Nitrobenzene	**ND**	0.36		µg/g-dry	1	11/20/2018 12:45:00 PM
Pentachlorophenol	**ND**	1.80		µg/g-dry	1	11/20/2018 12:45:00 PM
Pyridine	**ND**	1.80		µg/g-dry	1	11/20/2018 12:45:00 PM
Surr: 2,4,6-Tribromophenol	**66.2**	33.2-123		%REC	1	11/20/2018 12:45:00 PM
Surr: 2-Fluorobiphenyl	**59.8**	40.6-136		%REC	1	11/20/2018 12:45:00 PM
Surr: 2-Fluorophenol	**41.1**	12.7-110		%REC	1	11/20/2018 12:45:00 PM
Surr: 4-Terphenyl-d14	**66.8**	42.7-151		%REC	1	11/20/2018 12:45:00 PM
Surr: Nitrobenzene-d5	**47.1**	41.8-113		%REC	1	11/20/2018 12:45:00 PM
Surr: Phenol-d5	**38.4**	28.3-114		%REC	1	11/20/2018 12:45:00 PM
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **SMD**
(Prep: SW5035A - 11/7/2018)						
Chloromethane	**ND**	11	SNC	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Bromomethane	**ND**	11	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Vinyl chloride	**ND**	11	SNC	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Chloroethane	**ND**	11		µg/Kg-dry	1	11/7/2018 7:26:00 PM
Methylene chloride	**ND**	5		µg/Kg-dry	1	11/7/2018 7:26:00 PM

Data on This Page is Not Applicable to Submittal

Adirondack Environmental Services, Inc

Date: *21-Nov-18*

CLIENT: OSC Inc
Work Order: **181107001**
Reference: OSC Soil Characterization /
PO#:

Client Sample ID: AOC1 Non-Haz
Collection Date: 11/6/2018
Lab Sample ID: 181107001-006
Matrix: SOIL

VOLATILE ORGANICS-EPA 8260C (SW5035A PREP) Analyst: **SMD**
(Prep: SW5035A - 11/7/2018)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Acetone	**ND**	11		µg/Kg-dry	1	11/7/2018 7:26:00 PM
Carbon disulfide	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
1,1-Dichloroethene	**ND**	5		µg/Kg-dry	1	11/7/2018 7:26:00 PM
1,1-Dichloroethane	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
trans-1,2-Dichloroethene	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
cis-1,2-Dichloroethene	**7**	5	NC	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Chloroform	**ND**	5	NC	µg/Kg-dry	1	11/7/2018 7:26:00 PM
1,2-Dichloroethane	**ND**	5	NC	µg/Kg-dry	1	11/7/2018 7:26:00 PM
2-Butanone	**ND**	11	SNC	µg/Kg-dry	1	11/7/2018 7:26:00 PM
1,1,1-Trichloroethane	**ND**	5		µg/Kg-dry	1	11/7/2018 7:26:00 PM
Carbon tetrachloride	**ND**	5		µg/Kg-dry	1	11/7/2018 7:26:00 PM
Bromodichloromethane	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
1,2-Dichloropropane	**ND**	5	S	µg/Kg-dry	1	11/7/2018 7:26:00 PM
cis-1,3-Dichloropropene	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Trichloroethene	**780**	5	EN	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Dibromochloromethane	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
1,1,2-Trichloroethane	**ND**	5		µg/Kg-dry	1	11/7/2018 7:26:00 PM
Benzene	**ND**	5		µg/Kg-dry	1	11/7/2018 7:26:00 PM
trans-1,3-Dichloropropene	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Bromoform	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
4-Methyl-2-pentanone	**ND**	11	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
2-Hexanone	**ND**	11	NC	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Tetrachloroethene	**37**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
1,1,2,2-Tetrachloroethane	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Toluene	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Chlorobenzene	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Ethylbenzene	**ND**	5		µg/Kg-dry	1	11/7/2018 7:26:00 PM
Styrene	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
m,p-Xylene	**ND**	5		µg/Kg-dry	1	11/7/2018 7:26:00 PM
o-Xylene	**ND**	5		µg/Kg-dry	1	11/7/2018 7:26:00 PM
Methyl tert-butyl ether	**ND**	5	C	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Dichlorodifluoromethane	**ND**	5	SNC	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Methyl Acetate	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	**ND**	5		µg/Kg-dry	1	11/7/2018 7:26:00 PM
Trichlorofluoromethane	**ND**	5		µg/Kg-dry	1	11/7/2018 7:26:00 PM
Cyclohexane	**ND**	11	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Methyl Cyclohexane	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
1,2-Dibromoethane	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
1,3-Dichlorobenzene	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Isopropylbenzene	**ND**	5		µg/Kg-dry	1	11/7/2018 7:26:00 PM

Data on This Page is Not Applicable to Submittal

Adirondack Environmental Services, Inc

Date: *21-Nov-18*

CLIENT: OSC Inc
Work Order: **181107001**
Reference: OSC Soil Characterization /
PO#:

Client Sample ID: AOC1 Non-Haz
Collection Date: 11/6/2018
Lab Sample ID: 181107001-006
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP) (Prep: SW5035A - 11/7/2018)						Analyst: **SMD**
1,2-Dichlorobenzene	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
1,4-Dichlorobenzene	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
1,2-Dibromo-3-chloropropane	**ND**	11	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
1,2,4-Trichlorobenzene	**ND**	5	N	µg/Kg-dry	1	11/7/2018 7:26:00 PM
Surr: 1,2-Dichloroethane-d4	**105**	64.8-130		%REC	1	11/7/2018 7:26:00 PM
Surr: 4-Bromofluorobenzene	**110**	76.8-122		%REC	1	11/7/2018 7:26:00 PM
Surr: Toluene-d8	**123**	78.5-120	S	%REC	1	11/7/2018 7:26:00 PM
TCLP VOLATILES AS TOTALS - EPA 8260C(SW5035A PREP) (Prep: SW5035A - 11/14/2018)						Analyst: **SMD**
1,1-Dichloroethene	**ND**	0.45		µg/g-dry	50	11/14/2018 4:21:00 PM
1,2-Dichloroethane	**ND**	0.45		µg/g-dry	50	11/14/2018 4:21:00 PM
1,4-Dichlorobenzene	**ND**	0.90		µg/g-dry	50	11/14/2018 4:21:00 PM
2-Butanone	**ND**	0.45		µg/g-dry	50	11/14/2018 4:21:00 PM
Benzene	**ND**	0.45		µg/g-dry	50	11/14/2018 4:21:00 PM
Carbon tetrachloride	**ND**	0.45		µg/g-dry	50	11/14/2018 4:21:00 PM
Chlorobenzene	**ND**	0.45		µg/g-dry	50	11/14/2018 4:21:00 PM
Chloroform	**ND**	0.45		µg/g-dry	50	11/14/2018 4:21:00 PM
Tetrachloroethene	**ND**	4.50		µg/g-dry	50	11/14/2018 4:21:00 PM
Trichloroethene	**2.41**	0.45	N	µg/g-dry	50	11/14/2018 4:21:00 PM
Vinyl chloride	**ND**	0.18		µg/g-dry	50	11/14/2018 4:21:00 PM
Surr: 1,2-Dichloroethane-d4	**89.7**	78.8-124		%REC	50	11/14/2018 4:21:00 PM
Surr: 4-Bromofluorobenzene	**97.8**	74.1-129		%REC	50	11/14/2018 4:21:00 PM
Surr: Toluene-d8	**90.0**	81.6-116		%REC	50	11/14/2018 4:21:00 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**
Percent Moisture	**10.9**	0.1		wt%	1	11/16/2018
CORROSIVITY - SW 9040C						Analyst: **DAA**
Corrosivity	**Non Corrosive**	1.0			1	11/8/2018
IGNITABILITY - SW 1030						Analyst: **CA**
Ignitability	**Not Ignitable**	0			1	11/14/2018
CYANIDE, REACTIVE SW 7.3.3.2, NOT ELAP CERTIFIED (Prep: E335.4 - 11/19/2018)						Analyst: **KB**
Reactive Cyanide	**ND**	1.0		µg/g	1	11/20/2018 2:01:30 PM

Data on This Page is Not Applicable to Submittal

Adirondack Environmental Services, Inc

Date: *21-Nov-18*

CLIENT:	OSC Inc	**Client Sample ID:**	AOC1 Non-Haz
Work Order:	**181107001**	**Collection Date:**	11/6/2018
Reference:	OSC Soil Characterization /	**Lab Sample ID:**	181107001-006
PO#:		**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
REACTIVE SULFIDE - SW 7.3.4.2, NOT ELAP CERTIFIED						Analyst: **NK**
Reactive Sulfide	**ND**	10		µg/g	1	11/21/2018
REACTIVITY - SW 7.3.4.2, NOT ELAP CERTIFIED						Analyst: **NK**
Reactivity	**Non Reactive**	0			1	11/21/2018

Data on This Page is Not Applicable to Submittal

Adirondack Environmental Services Inc
314 North Pearl Street
Albany, New York 12207
518-434-4546 ♦ Fax: 518-434-0891

EXPERIENCE IS THE SOLUTION

CHAIN OF CUSTODY RECORD

AES Work Order#: 181107001

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: OSC

Address:

Send Report to: Dan Flanigan

Project Name (Location): OSC Soil Characterization

Samplers Name: K. Ambo

Client Phone No: 716-856-3333

PO #:

Samplers Signature:

Client Fax No:

AES Sample ID	Client Sample ID:	Date Sampled	Time A=am P=pm		Sample Type Matrix	C	G	# of Cont's	Analysis
001	Grab 1 Topsoil	11/6/18	0810	A/P	Soil		X	3	DER-10 VOC, PMOIST
002	Grab 2 Topsoil		0815	A/P			X	3	DER-10 VOC, PMOIST
003	Grab 3 Topsoil		0820	A/P			X	3	DER-10 VOC PMOIST
004	Composite Topsoil		0823	A/P		X		1	DER-10 Part 375 Metals, SVOCs, Pest (Incl Silver) PCBs, Hexa Chrom
005	F001		0918 ~~0850~~	A/P			X	3	PMoist, ~~DER-10~~ VOC, TCLP-Metals
006	AOC1 Non-haz		0856	A/P			X	3	PMoist, ~~DER-10~~ VOC,
				A/P					TCLP-Metals, ~~HHL~~ TCLP-VOC,
				A/P					TCLP-SVOC, Ignitability
				A/P					Corrosivity, Reactivity
				A/P					
				A/P					
				A/P					
				A/P					

Shipment Arrived Via:
FedEx UPS Client (AES) Other: _____

Special Instructions/Remarks:

Turnaround Time Requested:
☐ 1 Day ☐ 3 Day ☑ Normal
☐ 2 Day ☐ 5 Day

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
		11/06	3:10pm
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received for Laboratory by:	Date	Time
		11/7/18	7:18 Am

Sample Temperature	Properly Preserved	Received Within Holding Times
Ambient (Chilled) Chilling Process begun	(Y) N	(Y) N
Notes: 5°C	Notes:	Notes:

Demo
181107001

Adirondack Environmental Services Inc.®
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

(a) Neither **Adirondack Environmental Services, Inc.,** nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.

(b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.

(c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.

(d) In no event shall **Adirondack Environmental Services, Inc.,** its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.

(e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**

(f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.

(g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.

Rykaczewski, Dave A.

From: Cahill, Karen A (DEC) <karen.cahill@dec.ny.gov>
Sent: Monday, December 10, 2018 2:33 PM
To: Rykaczewski, Dave A.
Cc: Steve.Clarke@emerson.com
Subject: RE: EPT Ithaca - Request for Fill Approval - Additional Topsoil
Attachments: Emerson letter 12-10 Fill Request_Topsoil.pdf

Dave,

I have reviewed the attached request to import topsoil stripped from Willseyville Mine, Candor, NY (Permit ID 7-4924-00015) and hereby approve. Thank you.

Karen A. Cahill
Assistant Engineer, Division of Environmental Remediation

New York State Department of Environmental Conservation
615 Erie Blvd. W., Syracuse, NY 13204-2400
P: (315) 426-7432 | M: (315) 289-6788 | F: (315) 426-2653 | karen.cahill@dec.ny.gov
www.dec.ny.gov | | |

From: Rykaczewski, Dave A. <Dave.Rykaczewski@wsp.com>
Sent: Monday, December 10, 2018 9:31 AM
To: Cahill, Karen A (DEC) <karen.cahill@dec.ny.gov>
Cc: Steve.Clarke@emerson.com
Subject: EPT Ithaca - Request for Fill Approval - Additional Topsoil

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Karen,

Attached is a "Request to Import/Reuse Fill or Soil" form for an additional 700 cubic yards of topsoil for use at the EPT site in Ithaca. The first 300 cubic yards of topsoil from this same source were approved on October 30. Note that we won't likely import all of this topsoil until the spring, but the supplier has agreed to set this material aside for our future use. Please respond with your approval.

Thanks,
Dave

Dave Rykaczewski, PE
Senior Technical Manager
Water & Environment

wsp

11 Stanwix Street, Suite 950, Pittsburgh, PA 15222
Direct: +1-412-375-0282

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? >1000

If greater than 1000 cubic yards will be imported, enter volume to be imported: 3300

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

No sampling is required - material meets the requirements of DER-10 Section 5.4(e)(5)

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Not applicable - no sampling required.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Sultana Sand & Stone, Inc.

Location where fill was obtained:

Willseyville Mine, 225 Coddington Road, Candor, NY 13743

Identification of any state or local approvals as a fill source:

NYSDEC Permit ID 7-4924-00015, Mined Land ID 70704

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Mining Permit (page 1 only), Particle Size Distribution Report, Compaction Test (Modified Proctor) Report

The information provided on this form is accurate and complete.

Signature

10/10/18

Date

David Rykaczewski

Print Name

WSP USA

Firm

Revised August 2014

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
KIM K WHETZEL
2935 SLATERVILLE RD
BROOKTONDALE, NY 14817-9504

Facility:
WILLSEYVILLE MINE
CODDINGTON ROAD
CANDOR, NY 13743

Facility Application Contact:
PATRICK M SNYDER
ATTORNEY AT LAW
70 PORT WATSON ST
CORTLAND, NY 13045-1090
(607) 753-8050

Facility Location: in CANDOR in TIOGA COUNTY
Facility Principal Reference Point: NYTM-E: 386.743 NYTM-N: 4684.521
Latitude: 42°18'16.9" Longitude: 76°22'26.8"
Authorized Activity: This permit authorizes mining activity on 29.8 acres of land during the permit term, within a 87 acre life-of-mine facility, on a 128 acre parcel of land, including specified processing equipment on lands owned by Kim K. Whetzel.

Permit Authorizations

Mined Land Reclamation - Under Article 23, Title 27
Permit ID 7-4924-00015/00001 (Mined Land ID 70704)
Renewal Effective Date: 1/19/2018 Expiration Date: 1/18/2023

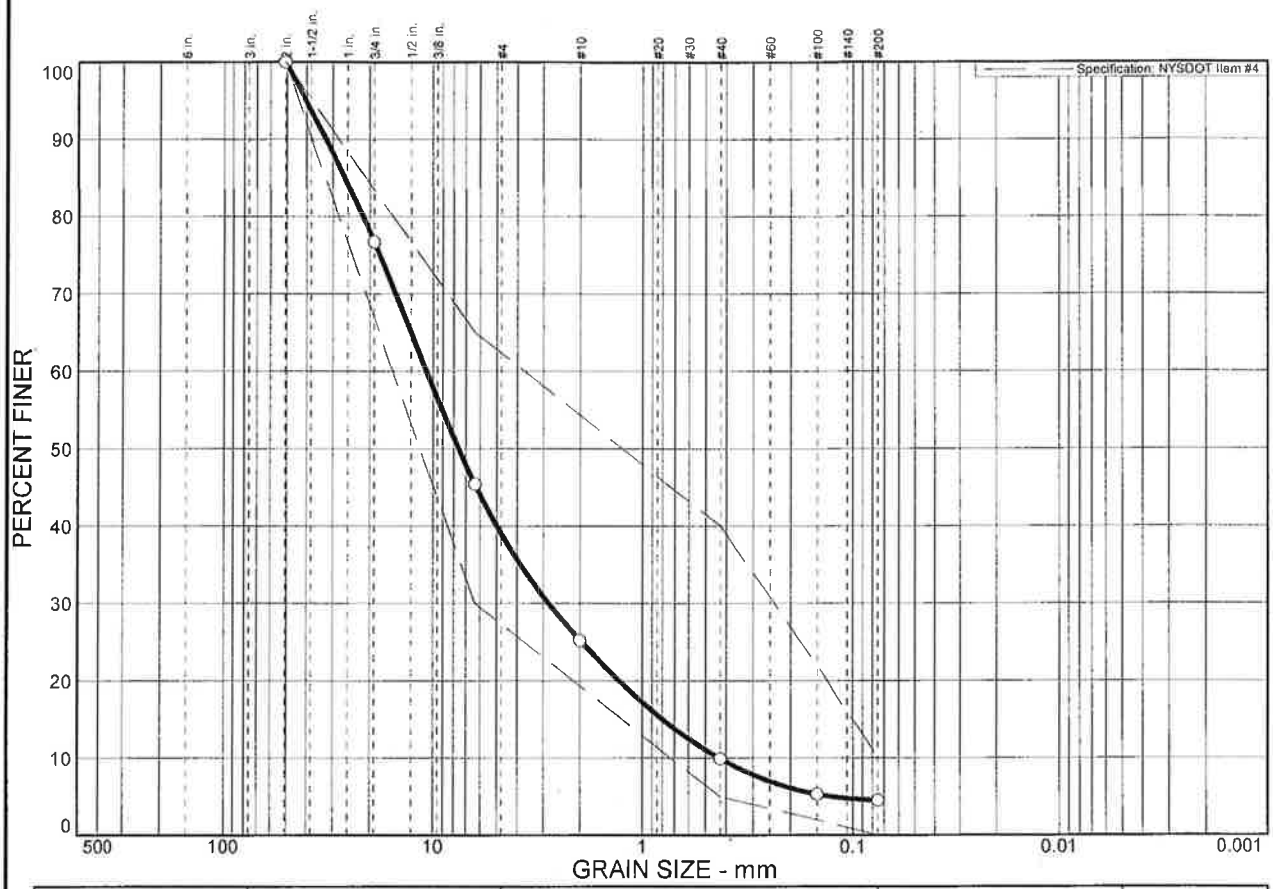
NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: JOSEPH M DLUGOLENSKI, Deputy Regional Permit Administrator
Address: NYSDEC Region 7 Cortland Sub-Office
1285 Fisher Ave
Cortland, NY 13045 -1090

Authorized Signature: _____ Date 01/04/2018

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	61.1	34.4	4.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2 in.	100.0	100.0 - 100.0	
0.75 in.	76.7		
0.25 in.	45.4	30.0 - 65.0	
#10	25.2		
#40	9.9	5.0 - 40.0	
#100	5.3		
#200	4.5	0.0 - 10.0	

* NYSDOT Item #4

Soil Description

N.Y.S.D.O.T. Item #4

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 26.3 D_{60}= 10.8 D_{50}= 7.59
D_{30}= 2.83 D_{15}= 0.802 D_{10}= 0.431
C_u= 24.94 C_c= 1.73

Classification

USCS= AASHTO=

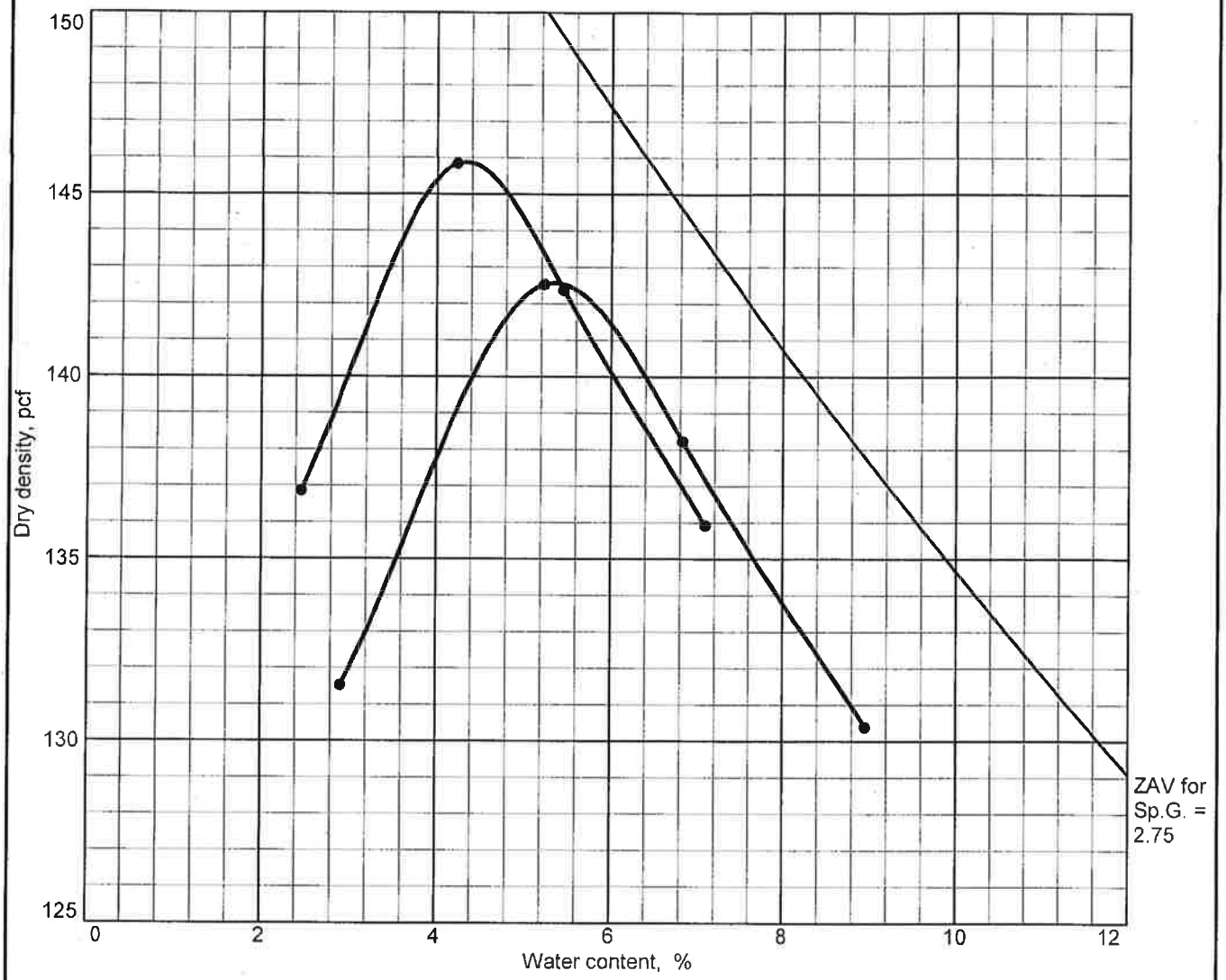
Remarks

Sample No.: 135 **Source of Sample:** Sultana Stockpile **Date:** 3-6-18
Location: **Elev./Depth:**

SJB SERVICES, INC.

Client: Sultana Sand & Stone, Inc.
Project: Cornell Noyes lodge
Project No: CT-18-012 **Plate** 135

COMPACTION TEST REPORT



Test specification: ASTM D 1557-91 Procedure C Modified
Oversize correction applied to each point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
				2.75			23.3	4.5

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 145.9 pcf	142.6 pcf	N.Y.S.D.O.T. Item #4
Optimum moisture = 4.3 %	5.3 %	

Project No. CT-18-012 **Client:** Sultana Sand & Stone, Inc.
Project: Cornell Noyes lodge

● **Source:** Sultana Stockpile **Sample No.:** 135

Remarks:
Date Tested:3-6-18

COMPACTION TEST REPORT

SJB SERVICES, INC.

Plate 135

Rykaczewski, Dave A.

From: Cahill, Karen A (DEC) <karen.cahill@dec.ny.gov>
Sent: Friday, October 12, 2018 9:37 AM
To: Rykaczewski, Dave A.
Cc: Steve.Clarke@emerson.com
Subject: RE: EPT Ithaca - Request for fill approval

Dave,

The DEC has reviewed the request dated October 11, 2018 to import bank run gravel from Sultana Sand & Stone and hereby approves this request. Thank you.

Karen A. Cahill

Assistant Engineer, Division of Environmental Remediation

New York State Department of Environmental Conservation

615 Erie Blvd. W., Syracuse, NY 13204-2400

P: (315) 426-7432 | M: (315) 289-6788 | F: (315) 426-2653 | karen.cahill@dec.ny.gov

www.dec.ny.gov | | |

From: Rykaczewski, Dave A. [mailto:Dave.Rykaczewski@wsp.com]

Sent: Thursday, October 11, 2018 3:40 PM

To: Cahill, Karen A (DEC) <karen.cahill@dec.ny.gov>

Cc: Steve.Clarke@emerson.com

Subject: EPT Ithaca - Request for fill approval

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Karen,

Attached is the "Request to Import/Reuse Fill or Soil" form for the Item 4 gravel. The material is proposed for use as backfill in the excavations at the EPT site in Ithaca. Please respond with your approval of the fill from this source.

Thanks,

Dave

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 50-100

If greater than 1000 cubic yards will be imported, enter volume to be imported: NA

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Import material is NYSDOT # 2 stone for surface restoration inside buildings (in lieu of concrete replacement). No sampling is required - material meets the requirements of DER-10 Section 5.4(e)(5)

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Not applicable - no sampling required.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Cayuga Crushed Stone Inc. (supplier)

Location where fill was obtained:

Hanson Aggregates (Skaneateles Quarry), State Rt. 321, Skaneateles, NY 13152

Identification of any state or local approvals as a fill source:

Permit ID 7-3150-00003/00006; Mined Land ID 70024

If no approvals are available, provide a brief history of the use of the property that is the fill source:

N/A

Provide a list of supporting documentation included with this request:

Mining Permit (page 1 only), Aggregate Gradation Report

The information provided on this form is accurate and complete.

Signature

12/6/18

Date

David Rykaczewski

Print Name

WSP USA

Firm

Revised August 2014

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
HANSON AGGREGATES NEW YORK LLC
4800 JAMESVILLE RD
PO BOX 513
JAMESVILLE, NY 13078-0513
(315) 469-5501

Facility:
HANSON - SKANEATELES QUARRY
ST RTE 321 - E SIDE & W OF KINGSTON RD
SKANEATELES, NY 13152

Facility Location: in SKANEATELES in ONONDAGA COUNTY
Facility Principal Reference Point: NYTM-E: 384.625 NYTM-N: 4762.237
Latitude: 43°00'14.6" Longitude: 76°24'56.1"
Authorized Activity: This permit authorizes continued mining activity on 280.8 acres during the permit term, within a 367.3 acre life-of-mine facility, on a 543 acre parcel of land, including specified processing equipment, on lands owned by the permittee.

Permit Authorizations

Mined Land Reclamation - Under Article 23, Title 27
Permit ID 7-3150-00003/00006 (Mined Land ID 70024)

Renewal	Effective Date: 5/13/2014	Expiration Date: 5/12/2019
Modification # 1	Effective Date: 5/8/2015	Expiration Date: 5/12/2019

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: ELIZABETH A TRACY, Deputy Regional Permit Administrator
Address: NYSDEC REGION 7 HEADQUARTERS
615 ERIE BOULEVARD WEST
SYRACUSE, NY 13204 -2400

Authorized Signature: Elizabeth Tracy Date 5 / 8 / 15

Hanson Aggregates East
P.O.Box 7
Skaneateles, NY 13152
315-685-3321
315-685-6991 Fax

AGGREGATE GRADATION REPORT

NYSDOT SOURCE 3-9R1 Limestone Skaneateles Quarry

Specific Gravities

Bulk (SSD)	Bulk	Apparent	ABS	HFA	BAL
2.71	2.677	2.775	1.3	NO	NY#

MATERIAL
#2 Stone
Average Gradation

Sieve Size	% Passing
1 ½"	100
1"	90.2
¾"	29.1
½"	1.4
3/8"	0.8
¼"	0.5
1/8"	0.4

Cummings, Daniel

From: Cahill, Karen A (DEC) <karen.cahill@dec.ny.gov>
Sent: Friday, December 7, 2018 10:25 AM
To: Rykaczewski, Dave A.
Cc: Steve.Clarke@emerson.com
Subject: RE: EPT Ithaca - Request to import fill
Attachments: emerson 12-06 EPT Request to Import Fill (Hanson #2 Stone).pdf

Dave,

The attached request is hereby approved. Thank you.

Karen A. Cahill
Assistant Engineer, Division of Environmental Remediation

New York State Department of Environmental Conservation
615 Erie Blvd. W., Syracuse, NY 13204-2400
P: (315) 426-7432 | M: (315) 289-6788 | F: (315) 426-2653 | karen.cahill@dec.ny.gov
www.dec.ny.gov | | |

From: Rykaczewski, Dave A. <Dave.Rykaczewski@wsp.com>
Sent: Thursday, December 06, 2018 4:30 PM
To: Cahill, Karen A (DEC) <karen.cahill@dec.ny.gov>
Cc: Steve.Clarke@emerson.com
Subject: EPT Ithaca - Request to import fill

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Karen,

Attached is a "Request to Import/Reuse Fill or Soil" form for NYSDOT No. 2 Stone that is proposed for use as surface restoration inside the buildings (where the concrete slab is not being replaced). This is the same quarry that is providing riprap for use onsite (previously approved). Please respond with your approval of this fill.

Thanks,
Dave

Dave Rykaczewski, PE
Senior Technical Manager
Water & Environment

11 Stanwix Street, Suite 950, Pittsburgh, PA 15222
Direct: +1-412-375-0282
Main: +1-412-281-9900
Mobile: +1-412-418-0140

Please note I have a new address.

www.wsp.com/usa

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-LAEmHhHzdJzBlTWfa4Hgs7pbKl

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 50-100

If greater than 1000 cubic yards will be imported, enter volume to be imported: NA

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Import material is NYSDOT # 2 stone for surface restoration inside buildings (in lieu of concrete replacement). No sampling is required - material meets the requirements of DER-10 Section 5.4(e)(5)

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Not applicable - no sampling required.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Cayuga Crushed Stone Inc. (supplier)

Location where fill was obtained:

Hanson Aggregates (Skaneateles Quarry), State Rt. 321, Skaneateles, NY 13152

Identification of any state or local approvals as a fill source:

Permit ID 7-3150-00003/00006; Mined Land ID 70024

If no approvals are available, provide a brief history of the use of the property that is the fill source:

N/A

Provide a list of supporting documentation included with this request:

Mining Permit (page 1 only), Aggregate Gradation Report

The information provided on this form is accurate and complete.

Signature

12/6/18

Date

David Rykaczewski

Print Name

WSP USA

Firm

Revised August 2014

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
HANSON AGGREGATES NEW YORK LLC
4800 JAMESVILLE RD
PO BOX 513
JAMESVILLE, NY 13078-0513
(315) 469-5501

Facility:
HANSON - SKANEATELES QUARRY
ST RTE 321 - E SIDE & W OF KINGSTON RD
SKANEATELES, NY 13152

Facility Location: in SKANEATELES in ONONDAGA COUNTY
Facility Principal Reference Point: NYTM-E: 384.625 NYTM-N: 4762.237
Latitude: 43°00'14.6" Longitude: 76°24'56.1"
Authorized Activity: This permit authorizes continued mining activity on 280.8 acres during the permit term, within a 367.3 acre life-of-mine facility, on a 543 acre parcel of land, including specified processing equipment, on lands owned by the permittee.

Permit Authorizations

Mined Land Reclamation - Under Article 23, Title 27
Permit ID 7-3150-00003/00006 (Mined Land ID 70024)

Renewal	Effective Date: 5/13/2014	Expiration Date: 5/12/2019
Modification # 1	Effective Date: 5/8/2015	Expiration Date: 5/12/2019

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: ELIZABETH A TRACY, Deputy Regional Permit Administrator
Address: NYSDEC REGION 7 HEADQUARTERS
615 ERIE BOULEVARD WEST
SYRACUSE, NY 13204 -2400

Authorized Signature: Elizabeth Tracy Date 5 / 8 / 15

Hanson Aggregates East
P.O.Box 7
Skaneateles, NY 13152
315-685-3321
315-685-6991 Fax

AGGREGATE GRADATION REPORT

NYSDOT SOURCE 3-9R1 Limestone Skaneateles Quarry

Specific Gravities

Bulk (SSD)	Bulk	Apparent	ABS	HFA	BAL
2.71	2.677	2.775	1.3	NO	NY#

MATERIAL
#2 Stone
Average Gradation

Sieve Size	% Passing
1 ½"	100
1"	90.2
¾"	29.1
½"	1.4
3/8"	0.8
¼"	0.5
1/8"	0.4

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 100-200

If greater than 1000 cubic yards will be imported, enter volume to be imported: NA

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Import material is riprap for ditch lining and erosion controls - No sampling is required - material meets the requirements of DER-10 Section 5.4(e)(5)

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Not applicable - no sampling required.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Cayuga Crushed Stone Inc. (supplier)

Location where fill was obtained:

Hanson Aggregates (Skaneateles Quarry), State Rt. 321, Skaneateles, NY 13152

Identification of any state or local approvals as a fill source:

Permit ID 7-3150-00003/00006; Mined Land ID 70024

If no approvals are available, provide a brief history of the use of the property that is the fill source:

N/A

Provide a list of supporting documentation included with this request:

Mining Permit (page 1 only), Aggregate Certification Report

The information provided on this form is accurate and complete.

Signature

10/24/18

Date

David Rykaczewski

Print Name

WSP USA

Firm

Revised August 2014

Hanson
HEIDELBERGCEMENTGroup

Hanson Aggregates
P.O.Box 513
Jamesville, NY 13078

AGGREGATE CERTIFICATION REPORT

NYSDOT SOURCE 3-9R1 Limestone
SKANEATELES QUARRY

Specific Gravities

Bulk (SSD)	Bulk	Apparent	ABS	HFA	BAL
2.72	2.692	2.759	0.9	NO	

MATERIAL
620.03 Light Stone Fill/Gabion

Our Light Stone Fill Meets the Following Gradation

Stone Size	Percent of Total by Weight
Lighter than 100 lbs.	90-100 %
Larger than 6"	50-100%
Smaller than 1/2"	0-10%

AB
8/9/18

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
HANSON AGGREGATES NEW YORK LLC
4800 JAMESVILLE RD
PO BOX 513
JAMESVILLE, NY 13078-0513
(315) 469-5501

Facility:
HANSON - SKANEATELES QUARRY
ST RTE 321 - E SIDE & W OF KINGSTON RD
SKANEATELES, NY 13152

Facility Location: in SKANEATELES in ONONDAGA COUNTY
Facility Principal Reference Point: NYTM-E: 384.625 NYTM-N: 4762.237
Latitude: 43°00'14.6" Longitude: 76°24'56.1"
Authorized Activity: This permit authorizes continued mining activity on 280.8 acres during the permit term, within a 367.3 acre life-of-mine facility, on a 543 acre parcel of land, including specified processing equipment, on lands owned by the permittee.

Permit Authorizations

Mined Land Reclamation - Under Article 23, Title 27
Permit ID 7-3150-00003/00006 (Mined Land ID 70024)

Renewal	Effective Date: 5/13/2014	Expiration Date: 5/12/2019
Modification # 1	Effective Date: 5/8/2015	Expiration Date: 5/12/2019

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: ELIZABETH A TRACY, Deputy Regional Permit Administrator
Address: NYSDEC REGION 7 HEADQUARTERS
615 ERIE BOULEVARD WEST
SYRACUSE, NY 13204 -2400

Authorized Signature: Elizabeth Tracy Date 5 / 8 / 15

Rykaczewski, Dave A.

From: Cahill, Karen A (DEC) <karen.cahill@dec.ny.gov>
Sent: Thursday, October 25, 2018 9:59 AM
To: Rykaczewski, Dave A.
Cc: Steve.Clarke@emerson.com; Warner, Harry (DEC)
Subject: RE: EPT Ithaca - Request for fill approval
Attachments: Emerson Import Request 10-25_Hanson Riprap.pdf

Dave,

I have reviewed the attached request to import riprap from Hanson Aggregates Skaneateles (Permit ID 7-3150-00003/00006) and hereby approve. Thank you.

Karen A. Cahill
Assistant Engineer, Division of Environmental Remediation

New York State Department of Environmental Conservation
615 Erie Blvd. W., Syracuse, NY 13204-2400
P: (315) 426-7432 | M: (315) 289-6788 | F: (315) 426-2653 | karen.cahill@dec.ny.gov
www.dec.ny.gov |

From: Rykaczewski, Dave A. <Dave.Rykaczewski@wsp.com>
Sent: Wednesday, October 24, 2018 5:32 PM
To: Cahill, Karen A (DEC) <karen.cahill@dec.ny.gov>
Cc: Steve.Clarke@emerson.com
Subject: EPT Ithaca - Request for fill approval

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Karen,

Attached is the "Request to Import/Reuse Fill or Soil" form for Riprap that is proposed for use as ditch lining and erosion protection at the EPT site in Ithaca. Please respond with your approval of the fill from this source.

Thanks,
Dave

Dave Rykaczewski, PE
Senior Technical Manager
Water & Environment

11 Stanwix Street, Suite 950, Pittsburgh, PA 15222
Direct: +1-412-375-0282
Main: +1-412-281-9900
Mobile: +1-412-418-0140

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 100-200

If greater than 1000 cubic yards will be imported, enter volume to be imported: NA

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Import material is riprap for ditch lining and erosion controls - No sampling is required - material meets the requirements of DER-10 Section 5.4(e)(5)

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Not applicable - no sampling required.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Cayuga Crushed Stone Inc. (supplier)

Location where fill was obtained:

Hanson Aggregates (Skaneateles Quarry), State Rt. 321, Skaneateles, NY 13152

Identification of any state or local approvals as a fill source:

Permit ID 7-3150-00003/00006; Mined Land ID 70024

If no approvals are available, provide a brief history of the use of the property that is the fill source:

N/A

Provide a list of supporting documentation included with this request:

Mining Permit (page 1 only), Aggregate Certification Report

The information provided on this form is accurate and complete.

Signature

10/24/18

Date

David Rykaczewski

Print Name

WSP USA

Firm

Revised August 2014

Hanson
HEIDELBERGCEMENTGroup

Hanson Aggregates
P.O.Box 513
Jamesville, NY 13078

AGGREGATE CERTIFICATION REPORT

NYSDOT SOURCE 3-9R1 Limestone
SKANEATELES QUARRY

Specific Gravities

Bulk (SSD)	Bulk	Apparent	ABS	HFA	BAL
2.72	2.692	2.759	0.9	NO	

MATERIAL
620.03 Light Stone Fill/Gabion

Our Light Stone Fill Meets the Following Gradation

Stone Size	Percent of Total by Weight
Lighter than 100 lbs.	90-100 %
Larger than 6"	50-100%
Smaller than 1/2"	0-10%

AB
8/9/18

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
HANSON AGGREGATES NEW YORK LLC
4800 JAMESVILLE RD
PO BOX 513
JAMESVILLE, NY 13078-0513
(315) 469-5501

Facility:
HANSON - SKANEATELES QUARRY
ST RTE 321 - E SIDE & W OF KINGSTON RD
SKANEATELES, NY 13152

Facility Location: in SKANEATELES in ONONDAGA COUNTY
Facility Principal Reference Point: NYTM-E: 384.625 NYTM-N: 4762.237
Latitude: 43°00'14.6" Longitude: 76°24'56.1"
Authorized Activity: This permit authorizes continued mining activity on 280.8 acres during the permit term, within a 367.3 acre life-of-mine facility, on a 543 acre parcel of land, including specified processing equipment, on lands owned by the permittee.

Permit Authorizations

Mined Land Reclamation - Under Article 23, Title 27
Permit ID 7-3150-00003/00006 (Mined Land ID 70024)

Renewal	Effective Date: 5/13/2014	Expiration Date: 5/12/2019
Modification # 1	Effective Date: 5/8/2015	Expiration Date: 5/12/2019

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

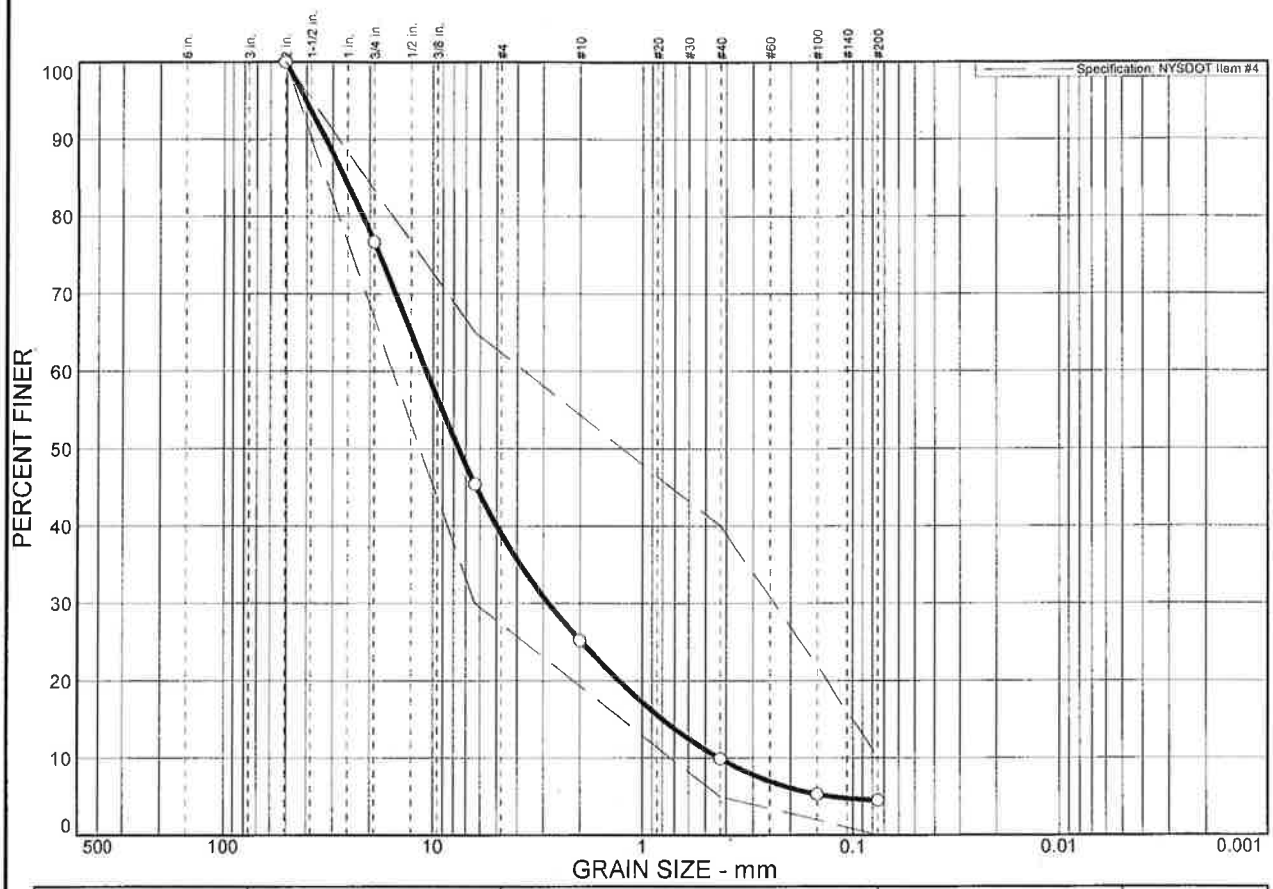
Permit Administrator: ELIZABETH A TRACY, Deputy Regional Permit Administrator
Address: NYSDEC REGION 7 HEADQUARTERS
615 ERIE BOULEVARD WEST
SYRACUSE, NY 13204 -2400

Authorized Signature: Elizabeth Tracy Date 5 / 8 / 15

APPENDIX

P COMPACTION TEST REPORTS

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	61.1	34.4	4.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2 in.	100.0	100.0 - 100.0	
0.75 in.	76.7		
0.25 in.	45.4	30.0 - 65.0	
#10	25.2		
#40	9.9	5.0 - 40.0	
#100	5.3		
#200	4.5	0.0 - 10.0	

* NYSDOT Item #4

Soil Description

N.Y.S.D.O.T. Item #4

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 26.3 D_{60}= 10.8 D_{50}= 7.59
D_{30}= 2.83 D_{15}= 0.802 D_{10}= 0.431
C_u= 24.94 C_c= 1.73

Classification

USCS= AASHTO=

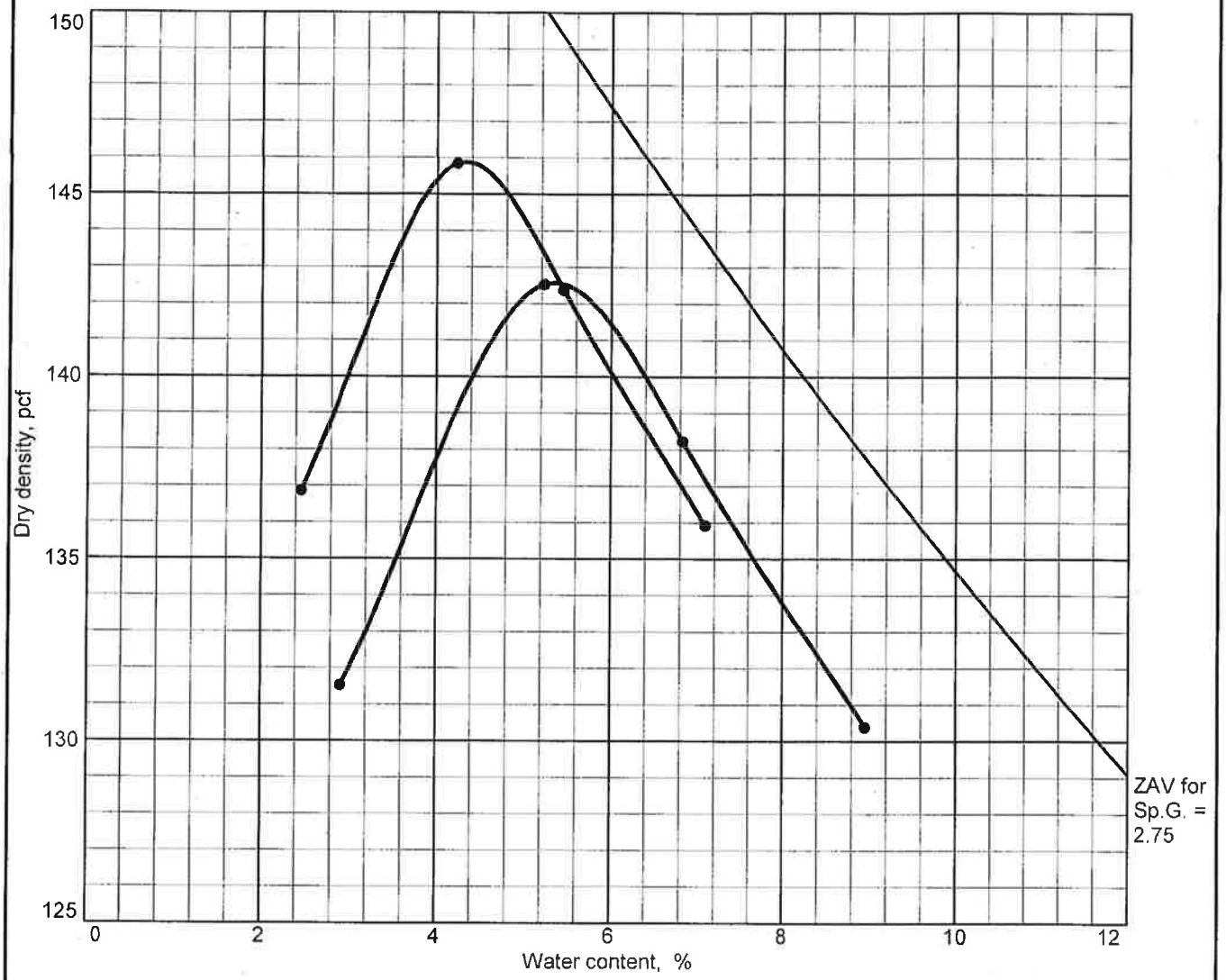
Remarks

Sample No.: 135 **Source of Sample:** Sultana Stockpile **Date:** 3-6-18
Location: **Elev./Depth:**

SJB SERVICES, INC.

Client: Sultana Sand & Stone, Inc.
Project: Cornell Noyes lodge
Project No: CT-18-012 **Plate** 135

COMPACTION TEST REPORT



Test specification: ASTM D 1557-91 Procedure C Modified
Oversize correction applied to each point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
				2.75			23.3	4.5

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 145.9 pcf	142.6 pcf	N.Y.S.D.O.T. Item #4
Optimum moisture = 4.3 %	5.3 %	

Project No. CT-18-012 **Client:** Sultana Sand & Stone, Inc.
Project: Cornell Noyes lodge

● **Source:** Sultana Stockpile **Sample No.:** 135

Remarks:
Date Tested:3-6-18

COMPACTION TEST REPORT

SJB SERVICES, INC.

Plate 135

SJB SERVICES, INC.
Contract Drilling and Testing

Central New York Office
60 Miller Street Extension
Cortland, NY 13045
Telephone: (607) 758-7182
Fax: (607) 758-7188

INSPECTOR'S DAILY REPORT

Project: Emerson Electric

Client: OSC Group

Contractor: OSC Group

Project No.: CT-18-081

Date: 10-29-18

S	M	T	W	TH	F	SA
	X					

Sunny	Clear	Overcast	Rain	Snow
		X	X	

to 32	32 to 50	50 to 70	70 to 85	85 +
	X			

Still	Moderate	High
X		

OBSERVATIONS: On the above date, a representative of this company was present at the subject site for the purpose of compaction testing.

- The technician was on-site to perform compaction testing for AOC 28 Lower (1 test) and AOC 1 (2 tests). In both locations, fabric was placed after the excavation, and then Item 4 material was placed and compacted. The one (1) test taken at AOC 28 Lower had material that was way over saturated. The contractors will let the material dry out tomorrow before regrading and compacting.

Technician: M. Merkle

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari 11-5-18
Geotechnical Engineer, E.I.T.

Special Inspector

Contract Drilling and Testing
SJB SERVICES, INC.

CORTLAND OFFICE
60 Miller Street
Cortland, New York 13045

Phone: (607) 758-7182
Fax: (607) 758-7188

FIELD IN-PLACE DENSITY TEST REPORT
(NUCLEAR METHOD)

PROJECT:	Emerson Electric	LOCATION:	Ithaca, NY
CLIENT:	OSC Group	REPORT NO.:	S102918
BLDG./AREA:	AOC 28 & AOC 1	PROJECT NO.:	CT-18-081
CONTRACTOR:	OCS Group	DATE:	10/29/18

TEST NO.	ELEV.	IN-PLACE DENSITY (pcf)	IN-PLACE MOISTURE (%)	% COMPACTION	PASS Y / N	PROCTOR CODE	LOCATION AND REMARKS
1	SB	135.8	6.8	93.1%	N	135	AOC 28 Lower

PROCTOR CODE	MAXIMUM DENSITY (pcf)	OPTIMUM MOISTURE (%)	MATERIAL TYPE AND SOURCE
135	145.90	4.2	NYSDOT Item 4 - Sultana Stockpile

NUCLEAR METHOD USED; DIRECT TRANSMISSION

Remarks: SB = Subbase

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari 11-5-18
Geotechnical Engineer, E.I.T.

TECHNICIAN: M. Merkle

Special Inspector:

Contract Drilling and Testing
SJB SERVICES, INC.

Central New York Office
60 Miller Street Extension
Cortland, NY 13045
Telephone: (607) 758-7182
Fax: (607) 758-7188

INSPECTOR'S DAILY REPORT

Date: 05/22/2019

Project: Emerson Electric

Client: Ontario Specialty Contracting Group

Contractor: Ontario Specialty Contracting Group

Project No.: CT-18-081

S	M	T	W	TH	F	SA
			X			

Sunny	Clear	Overcast	Rain	Snow
	X			

to 32	32 to 50	50 to 70	70 to 85	85 +
			X	

Still	Moderate	High
X		

OBSERVATIONS: On the above date, a representative of this company was present at the subject site for the purpose of compaction testing.

- When onsite, security contacted Matt (representative of Ontario Specialty Contracting Group) said the material was not ready and cancelled testing.

Technician: Ed Underwood

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

Special Inspector

Contract
Drilling and
Testing

Central New York Office
60 Miller Street Extension
Cortland, NY 13045
Telephone: (607) 758-7182
Fax: (607) 758-7188

INSPECTOR'S DAILY REPORT

Date: 05/23/2019

Project: Emerson Electric

Client: Ontario Specialty Contracting Group

Contractor: Ontario Specialty Contracting Group

Project No.: CT-18-081

S	M	T	W	TH	F	SA	
				X			
Sunny Partly		Clear		Overcast X		Rain PM	Snow
to 32		32 to 50 AM		50 to 70 PM		70 to 85	85 +
Still		Moderate X		High			

OBSERVATIONS: On the above date, a representative of this company was present at the subject site for the purpose of performing in place density (IPD) testing.

- There were 6 IPD tests performed on Item 4 from Sultana Pit used for backfill at contaminated soils removal areas. All tests met the 95% compaction requirement.

Technician: D. McGrady

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

Special Inspector

Contract Drilling and Testing
SJB SERVICES, INC.

CORTLAND OFFICE
60 Miller Street
Cortland, New York 13045

Phone: (607) 758-7182
Fax: (607) 758-7188

FIELD IN-PLACE DENSITY TEST REPORT
(NUCLEAR METHOD)

PROJECT:	Emerson Electric	LOCATION:	Ithaca, NY
CLIENT:	Ontario Specialty Contracting Group	REPORT NO.:	S052319
BLDG./AREA:	Backfill at Contaminated Soil Removal Area	PROJECT NO.:	CT-18-081
CONTRACTOR:	Ontario Specialty Contracting Group	DATE:	05/23/19

TEST NO.	ELEV.	IN-PLACE DENSITY (pcf)	IN-PLACE MOISTURE (%)	% COMPACTION	PASS Y / N	PROCTOR CODE	LOCATION AND REMARKS
1	1st Lift	143.4	6.2	98.3%	Y	1	AOC 34-1, 1st Lift at 3' Cut
2	1st Lift	146.9	5.4	100.7%	Y	1	AOC 34-2, 1st Lift at 2' Cut
3	2nd Lift	142.4	6.2	97.6%	Y	1	AOC 34-2, 2nd Lift at 2' Cut
4	2nd Lift	140.9	5.1	96.6%	Y	1	AOC 34-1, 2nd Lift at 3' Cut
5	3rd Lift	144.4	5.7	99.0%	Y	1	AOC 34-2, 3rd Lift at 2' Cut
6	3rd Lift	140.6	6.0	96.4%	Y	1	AOC 34-1, 3rd Lift at 3' Cut

PROCTOR CODE	MAXIMUM DENSITY (pcf)	OPTIMUM MOISTURE (%)	MATERIAL TYPE AND SOURCE
1	145.90	4.3	Item 4 - Sultana Pit

NUCLEAR METHOD USED; DIRECT TRANSMISSION

Remarks:

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

TECHNICIAN: D. McGrady

Special Inspector:

Contract Drilling and Testing
SJB SERVICES, INC.

Central New York Office
60 Miller Street Extension
Cortland, NY 13045
Telephone: (607) 758-7182
Fax: (607) 758-7188

INSPECTOR'S DAILY REPORT

Project: Emerson Electric

Client: Ontario Specialty Contracting Group

Contractor: Ontario Specialty Contracting Group

Project No.: CT-18-081

Date: 05/29/2019

S	M	T	W	TH	F	SA
			X			

Sunny Partly	Clear	Overcast X	Rain	Snow
to 32	32 to 50	50 to 70 X	70 to 85	85 +

Still X	Moderate	High

OBSERVATIONS: On the above date, a representative of this company was present at the subject site for the purpose of in place density (IPD) testing.

- Performed 4-IPD tests on Item 4 from Sultana Pit used for backfill at contaminated soils removal areas AOC34-1, AOC34-2, and AOC34-3. All tests met the 95% compaction requirement.

Technician: D. McGrady

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

Special Inspector

Contract Drilling and Testing
SJB SERVICES, INC.

CORTLAND OFFICE
60 Miller Street
Cortland, New York 13045

Phone: (607) 758-7182
Fax: (607) 758-7188

FIELD IN-PLACE DENSITY TEST REPORT
(NUCLEAR METHOD)

PROJECT:	Emerson Electric	LOCATION:	Ithaca, NY
CLIENT:	Ontario Specialty Contracting Group	REPORT NO.:	S052919
BLDG./AREA:	Backfill at Contaminated Soils Removal	PROJECT NO.:	CT-18-081
CONTRACTOR:	Ontario Specialty Contracting Group	DATE:	05/29/19

TEST NO.	ELEV.	IN-PLACE DENSITY (pcf)	IN-PLACE MOISTURE (%)	% COMPACTION	PASS Y / N	PROCTOR CODE	LOCATION AND REMARKS
1	-0.5' SB	143.2	4.9	98.1%	Y	1	AOC34-3
2	+/- SB	144.0	4.7	98.7%	Y	1	AOC 34-1, Final Lift
3	+/- SB	144.7	4.4	99.2%	Y	1	AOC 34-2, Final Lift
4	+/- SB	142.5	4.6	97.7%	Y	1	AOC 34-3, Final Lift

PROCTOR CODE	MAXIMUM DENSITY (pcf)	OPTIMUM MOISTURE (%)	MATERIAL TYPE AND SOURCE
1	145.90	4.3	Item 4 - Sultana Pit

NUCLEAR METHOD USED; DIRECT TRANSMISSION

Remarks: SB = Subbase

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

TECHNICIAN: D. McGrady

Special Inspector:

Contract Drilling and Testing
SJB SERVICES, INC.

Central New York Office
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Cortland, NY 13045
Telephone: (607) 758-7182
Fax: (607) 758-7188

INSPECTOR'S DAILY REPORT

Date: 06/11/2019

Project: Emerson Electric

Client: Ontario Specialty Contracting Group

Contractor: Ontario Specialty Contracting Group

Project No.: CT-18-081

S	M	T	W	TH	F	SA
		X				

Sunny	Clear	Overcast	Rain	Snow
X		X		

to 32	32 to 50	50 to 70	70 to 85	85 +

Still	Moderate	High
	X	X

OBSERVATIONS: On the above date, a representative of this company was present at the subject site for the purpose of in place density (IPD) testing.

- Tested lifts placed in Area 26 between Dock No. 1 and at the 2 adjacent building West of Dock No. 1. Item 4 (DOT) from Sultana Sand and Stone was being hauled in from onsite stock pile. Test taken at random select locations and all tests taken today were exceeding the 95% compaction of the proctor. Equipment used for compaction was a Stanley 3860 plate tamper and Dynapac CA1300D single drum roller.
- As lifts were placed and compacted, tests were taken and Ontario Specialty Contracting Group was notified of all test results. Details are attached.

Technician: P. Akbari

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

Special Inspector

Contract Drilling and Testing
SJB SERVICES, INC.

CORTLAND OFFICE
60 Miller Street
Cortland, New York 13045

Phone: (607) 758-7182
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FIELD IN-PLACE DENSITY TEST REPORT
(NUCLEAR METHOD)

PROJECT:	Emerson Electric	LOCATION:	Ithaca, NY
CLIENT:	Ontario Specialty Contracting Group	REPORT NO.:	S061119
BLDG./AREA:	Area 26 (Outside) North Half and West Side	PROJECT NO.:	CT-18-081
CONTRACTOR:	Ontario Specialty Contracting Group	DATE:	06/11/19

TEST NO.	ELEV.	IN-PLACE DENSITY (pcf)	IN-PLACE MOISTURE (%)	% COMPACTION	PASS Y / N	PROCTOR CODE	LOCATION AND REMARKS
1	635	147.6	5.6	100+%	Y	1	NW Half of Area 26 (first lift)
2	635	144.7	5.0	99.2%	Y	1	Approximately 45' W of Test #1 (first lift)
3	635	147.0	5.5	100+%	Y	1	Approximately 65' W of Test #2 (15' NE of Door 2C), (first lift)
4	1st lift	147.0	5.2	100+%	Y	1	About 42' From Dock #1 over head, 15' s from building on N.
5	-1 FG	144.9	5.1	99.3%	Y	1	Approximately 15' NW of FH #16
6	-1.5'	143.9	5.9	98.6%	Y	1	About 4' NW of Test # 4
7	-0.9'	144.8	6.3	99.2%	Y	1	About 5' NW of Test #4
8	-0.6'	146.3	4.8	100+%	Y	1	5' S x 3' E of Test #4
9	-1'	144.6	5.3	99.1%	Y	1	Same as Test #1 (2nd Lift)
10	-0.4' FG	140.4	5.6	96.2%	Y	1	Same as Tst #4, 6' N
11	-3'	144.9	4.8	99.3%	Y	1	Same as Test #2
12	FG	143.0	5.2	98.0%	Y	1	Same as Test #4
13	-2'	141.9	4.6	97.3%	Y	1	Same as Test #3
14	-2'	139.0	5.6	95.3%	Y	1	About 15' W of Existing Brick Manhole
15	-1'	144.6	4.3	99.1%	Y	1	Same as Test #1 (third lift)
16	-2'	144.7	4.8	99.2%	Y	1	Same as Test #2
17	-1.5'	145.9	4.6	100.0%	Y	1	Same as Test #3
18	-1'	142.4	4.4	97.6%	Y	1	Same as Test #14
19	FG (+/-)	142.1	4.6	97.4%	Y	1	Same as Test # 1

PROCTOR CODE	MAXIMUM DENSITY (pcf)	OPTIMUM MOISTURE (%)	MATERIAL TYPE AND SOURCE
1	145.90	4.3	NYS DOT Item 4 - Sultana Sand and Gravel

NUCLEAR METHOD USED; DIRECT TRANSMISSION

Remarks: Elevation 635 (Approximately) Below Grade
FG = From Subgrade
FH=Fire Hydrent

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

TECHNICIAN: P. Akbari

Special Inspector:

Contract Drilling and Testing
SJB SERVICES, INC.

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Fax: (607) 758-7188

INSPECTOR'S DAILY REPORT

Date: 06/12/2019

Project: Emerson Electric

Client: Ontario Specialty Contracting Group

Contractor: Ontario Specialty Contracting Group

Project No.: CT-18-081

S	M	T	W	TH	F	SA
			X			

Sunny	Clear	Overcast	Rain	Snow
X				

to 32	32 to 50	50 to 70 AM	70 to 85 PM	85 +

Still	Moderate	High
X	X	

OBSERVATIONS: On the above date, a representative of this company was present at the subject site for the purpose of in place density (IPD) testing.

- IPD testing on subgrade fill placement in Area 26, North half, as a continuation of previous day (6/11/2019) testing. All tests taken today on NYSDOT Type 4 subbase met the 95% or better compaction requirement. For details, please refer to attached IPD test report.

Technician: P. Akbari

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

Special Inspector

Contract Drilling and Testing
SJB SERVICES, INC.

CORTLAND OFFICE
60 Miller Street
Cortland, New York 13045

Phone: (607) 758-7182
Fax: (607) 758-7188

FIELD IN-PLACE DENSITY TEST REPORT
(NUCLEAR METHOD)

PROJECT:	Emerson Electric	LOCATION:	Ithaca, NY
CLIENT:	Ontario Specialty Contracting Group	REPORT NO.:	S061219
BLDG./AREA:	Area 26	PROJECT NO.:	CT-18-081
CONTRACTOR:	Ontario Specialty Contracting Group	DATE:	06/12/19

TEST NO.	ELEV.	IN-PLACE DENSITY (pcf)	IN-PLACE MOISTURE (%)	% COMPACTION	PASS Y / N	PROCTOR CODE	LOCATION AND REMARKS
1	-2'	145.6	4.7	99.8%	Y	1	12' from Pavement Edge N 30' E from N Building Corner
2	-0.2'	142.7	4.7	97.8%	Y	1	12' from Concrete Walk N, 5' W from N Building Corner
3	FG (+/-)	144.2	5.2	98.8%	Y	1	12' W of Brick Manhole, 32' N of FH 16
4	-0.9'	139.7	4.6	95.8%	Y	1	Same as Test #1
5	FG (+/-)	141.1	4.4	96.7%	Y	1	Same as Test #2

PROCTOR CODE	MAXIMUM DENSITY (pcf)	OPTIMUM MOISTURE (%)	MATERIAL TYPE AND SOURCE
1	145.90	4.3	NYSDOT Item 4 - Sultana Sand and Gravel

NUCLEAR METHOD USED; DIRECT TRANSMISSION

Remarks: FG = From Subgrade

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

TECHNICIAN: P. Akbari

Special Inspector:

Contract Drilling and Testing
SJB SERVICES, INC.

Central New York Office
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Cortland, NY 13045
Telephone: (607) 758-7182
Fax: (607) 758-7188

INSPECTOR'S DAILY REPORT

Date: 06/13/2019

Project: Emerson Electric

Client: Ontario Specialty Contracting Group

Contractor: Ontario Specialty Contracting Group

Project No.: CT-18-081

S	M	T	W	TH	F	SA
				X		

Sunny	Clear	Overcast	Rain	Snow
		X	X	

to 32	32 to 50	50 to 70	70 to 85	85 +
		X		

Still	Moderate	High
X	X	

OBSERVATIONS: On the above date, a representative of this company was present at the subject site for the purpose of in place density (IPD) testing.

- There were 2 IPD tests performed on finish grade (+/-) on far West end of Area 26 North and one test at approximately -6" (+/-) of finish grade on East side of same area.
- All tests met the 95% compaction or better. The test data is attached.

Technician: P. Akbari

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

Special Inspector

Contract Drilling and Testing
SJB SERVICES, INC.

CORTLAND OFFICE
60 Miller Street
Cortland, New York 13045

Phone: (607) 758-7182
Fax: (607) 758-7188

FIELD IN-PLACE DENSITY TEST REPORT
(NUCLEAR METHOD)

PROJECT:	Emerson Electric	LOCATION:	Ithaca, NY
CLIENT:	Ontario Specialty Contracting Group	REPORT NO.:	S061319
BLDG./AREA:	Area 26 - North	PROJECT NO.:	CT-18-081
CONTRACTOR:	Ontario Specialty Contracting Group	DATE:	06/13/19

TEST NO.	ELEV.	IN-PLACE DENSITY (pcf)	IN-PLACE MOISTURE (%)	% COMPACTION	PASS Y / N	PROCTOR CODE	LOCATION AND REMARKS
1	-6"	139.4	6.2	95.5%	Y	1	20' E of Building Corner
2	FG	138.8	5.4	95.1%	Y	1	28' W of Building Corner
3	FG	141.1	5.8	96.7%	Y	1	12' NW of Brick Manhole

PROCTOR CODE	MAXIMUM DENSITY (pcf)	OPTIMUM MOISTURE (%)	MATERIAL TYPE AND SOURCE
1	145.90	4.5	NYS DOT Type 4 - Sultana Stockpile

NUCLEAR METHOD USED; DIRECT TRANSMISSION

Remarks: FG = Finish Grade

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

TECHNICIAN: P. Akbari

Special Inspector:

SJB SERVICES, INC.
Contract Drilling and Testing

Central New York Office
60 Miller Street Extension
Cortland, NY 13045
Telephone: (607) 758-7182
Fax: (607) 758-7188

INSPECTOR'S DAILY REPORT

Date: 06/14/2019

Project: Emerson Electric

Client: Ontario Specialty Contracting Group

Contractor: Ontario Specialty Contracting Group

Project No.: CT-18-081

S	M	T	W	TH	F	SA
					X	

Sunny	Clear	Overcast	Rain	Snow
		X		

to 32	32 to 50	50 to 70	70 to 85	85 +
		X		

Still	Moderate	High
X	X	X

OBSERVATIONS: On the above date, a representative of this company was present at the subject site for the purpose of in place density (IPD) testing.

- Item 4 (NYS DOT) from Sultana Pit being used. OSC is extending the work area to the south toward Building 24. Various tests at randomly selected locations were taken today. All tests met the required 95% compaction using provided proctor.

Technician: P. Akbari

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

Special Inspector

Contract Drilling and Testing
SJB SERVICES, INC.

CORTLAND OFFICE
60 Miller Street
Cortland, New York 13045

Phone: (607) 758-7182
Fax: (607) 758-7188

FIELD IN-PLACE DENSITY TEST REPORT
(NUCLEAR METHOD)

PROJECT:	Emerson Electric	LOCATION:	Ithaca, NY
CLIENT:	Ontario Specialty Contracting Group	REPORT NO.:	S061419
BLDG./AREA:	Area 26	PROJECT NO.:	CT-18-081
CONTRACTOR:	Ontario Specialty Contracting Group	DATE:	06/14/19

TEST NO.	ELEV.	IN-PLACE DENSITY (pcf)	IN-PLACE MOISTURE (%)	% COMPACTION	PASS Y / N	PROCTOR CODE	LOCATION AND REMARKS
1	-1'	144.0	4.8	98.7%	Y	1	South End about 10' N of MW, 50' from SE Corner of Bldg
2	-1'	145.1	4.9	99.5%	Y	1	22' NE of Test #1
3	-1'	144.9	5.3	99.3%	Y	1	19' E x 14' S of SE Corner of Building
4	-1'	146.0	5.2	100.1%	Y	1	Approximately 12' S of Test #3
5	-6"	145.9	4.5	100.0%	Y	1	60' E x 10' S of SE Corner of Building
6	-6"	142.0	4.6	97.3%	Y	1	20' S of Test #5
7	-6'	145.1	4.8	99.5%	Y	1	15' From SE Corner of Building
8	-6'	144.3	5.0	98.9%	Y	1	Approximately 14' N of FH #16
9	-6'	140.6	5.0	96.4%	Y	1	37' S of Building, 45' E of FH #16
10	-6'	142.6	5.0	97.7%	Y	1	Approximately 15' W of MW
11	-1.5'	144.7	4.8	99.2%	Y	1	17' to Building, 12' N SE Corner of Building, 3' to Ditch

PROCTOR CODE	MAXIMUM DENSITY (pcf)	OPTIMUM MOISTURE (%)	MATERIAL TYPE AND SOURCE
1	145.90		Item 4 (NYS DOT) - Sultana Pit

NUCLEAR METHOD USED; DIRECT TRANSMISSION

Remarks: MW = Monitoring Well

Elevations from Top of Asphalt

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

TECHNICIAN: P. Akbari

Special Inspector:

Contract Drilling and Testing
SJB SERVICES, INC.

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INSPECTOR'S DAILY REPORT

Date: 06/17/2019

Project: Emerson Electric

Client: Ontario Specialty Contracting Group

Contractor: Ontario Specialty Contracting Group

Project No.: CT-18-081

S	M	T	W	TH	F	SA	
	X						

Sunny Partly	Clear	Overcast	Rain	Snow
to 32	32 to 50	50 to 70	70 to 85 X	85 +

Still X	Moderate	High

OBSERVATIONS: On the above date, a representative of this company was present at the subject site for the purpose of performing in place density (IPD) testing.

- Performed 4-IPD tests on Item 4 placed as backfill at contaminated soils removal area AOC-26 outside. All tests met the 95% compaction requirement. Tests were done on final lift at the approximate subbase elevation.

Technician: D. McGrady

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

Special Inspector

Contract Drilling and Testing
SJB SERVICES, INC.

CORTLAND OFFICE
60 Miller Street
Cortland, New York 13045

Phone: (607) 758-7182
Fax: (607) 758-7188

FIELD IN-PLACE DENSITY TEST REPORT
(NUCLEAR METHOD)

PROJECT:	Emerson Electric	LOCATION:	Ithaca, NY
CLIENT:	Ontario Specialty Contracting Group	REPORT NO.:	S061719
BLDG./AREA:	Backfill at Containment Soils Removal Area	PROJECT NO.:	CT-18-081
CONTRACTOR:	Ontario Specialty Contracting Group	DATE:	06/17/19

TEST NO.	ELEV.	IN-PLACE DENSITY (pcf)	IN-PLACE MOISTURE (%)	% COMPACTION	PASS Y / N	PROCTOR CODE	LOCATION AND REMARKS
1	+/- SB	142.7	6.5	97.8%	Y	1	15' W x 10' S of Monitoring Well cap AOC-26, Outside
2	+/- SB	143.9	5.2	98.6%	Y	1	32' N x 5' W of Test #1, AOC-26, Outside
3	+/- SB	143.2	5.4	98.1%	Y	1	35' N of Test #2, AOC-26, Outside
4	+/- SB	144.7	4.8	99.2%	Y	1	38' N x 10' E of Test #3, AOC-26, Outside

PROCTOR CODE	MAXIMUM DENSITY (pcf)	OPTIMUM MOISTURE (%)	MATERIAL TYPE AND SOURCE
1	145.90	4.3	Item 4 - Sultana

NUCLEAR METHOD USED; DIRECT TRANSMISSION

Remarks: SB = Subbase

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari
Geotechnical Engineer, E.I.T.

TECHNICIAN: D. McGrady

Special Inspector:

SJB SERVICES, INC.
Contract Drilling and Testing

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Fax: (607) 758-7188

INSPECTOR'S DAILY REPORT

Project: Emerson Electric

Client: Ontario Specialty Contracting Group

Contractor: Ontario Specialty Contracting Group

Project No.: CT-18-081

Date: 10-30-18

S	M	T	W	TH	F	SA
		X				

Sunny	Clear	Overcast	Rain	Snow
		X		

to 32	32 to 50	50 to 70	70 to 85	85 +
	X			

Still	Moderate	High

OBSERVATIONS: On the above date, a representative of this company was present at the subject site for the purpose of compaction testing.

- The contractor removed contaminated soil from the perimeter road at AOC1. Two (2) compaction tests were taken and both tests met the 95% compaction requirement.

Technician: D. Verdon

Respectfully Submitted,
SJB SERVICES, INC.

11-19-18

Parviz Akbari
Geotechnical Engineer, E.I.T.

Special Inspector

Contract Drilling and Testing
SJB SERVICES, INC.

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FIELD IN-PLACE DENSITY TEST REPORT
(NUCLEAR METHOD)

PROJECT:	Emerson Electric	LOCATION:	Ithaca, NY
CLIENT:	Ontario Specialty Contracting Group	REPORT NO.:	S103018
BLDG./AREA:	AOC1	PROJECT NO.:	CT-18-081
CONTRACTOR:	Ontario Specialty Contracting Group	DATE:	10/30/18

TEST NO.	ELEV.	IN-PLACE DENSITY (pcf)	IN-PLACE MOISTURE (%)	% COMPACTION	PASS Y / N	PROCTOR CODE	LOCATION AND REMARKS
1	-1.5	139.1	5.9	95.3%	Y	1	South End of Excavation
2	-1.5	139.5	5.8	95.6%	Y	1	North End of Excavation

PROCTOR CODE	MAXIMUM DENSITY (pcf)	OPTIMUM MOISTURE (%)	MATERIAL TYPE AND SOURCE
1	145.90	4.3	NYSDOT Item 4 - Sultana Stockpile

NUCLEAR METHOD USED; DIRECT TRANSMISSION

Remarks:

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari 11-19-18
Geotechnical Engineer, E.I.T.

TECHNICIAN: D. Verdon

Special Inspector:

Contract Drilling and Testing
SJB SERVICES, INC.

Central New York Office
60 Miller Street Extension
Cortland, NY 13045
Telephone: (607) 758-7182
Fax: (607) 758-7188

INSPECTOR'S DAILY REPORT

Date: 11-08-18

Project: Emerson Electric

Client: Ontario Specialty Contracting Group

Contractor: Ontario Specialty Contracting Group

Project No.: CT-18-081

S	M	T	W	TH	F	SA
				X		

Sunny	Clear	Overcast	Rain	Snow
		X		

to 32	32 to 50	50 to 70	70 to 85	85 +
	X			

Still	Moderate	High

OBSERVATIONS: On the above date, a representative of this company was present at the subject site for the purpose of soil testing.

- The technician tested the backfill of the roadway removal of the pre-existing structure.

Technician: D. Burdick

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari 11-19-18
Geotechnical Engineer, E.I.T.

Special Inspector

Contract Drilling and Testing
SJB SERVICES, INC.

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FIELD IN-PLACE DENSITY TEST REPORT
(NUCLEAR METHOD)

PROJECT:	Emerson Electric	LOCATION:	Ithaca, NY
CLIENT:	Ontario Specialty Contracting Group	REPORT NO.:	S110818
BLDG./AREA:	Backfill of Roadway	PROJECT NO.:	CT-18-081
CONTRACTOR:	Ontario Specialty Contracting Group	DATE:	11/08/18

TEST NO.	ELEV.	IN-PLACE DENSITY (pcf)	IN-PLACE MOISTURE (%)	% COMPACTION	PASS Y / N	PROCTOR CODE	LOCATION AND REMARKS
1	TSG	144.8	6.2	99.2%	Y	1	South End
2	TSG	142.9	5.9	97.9%	Y	1	North End

PROCTOR CODE	MAXIMUM DENSITY (pcf)	OPTIMUM MOISTURE (%)	MATERIAL TYPE AND SOURCE
1	145.90	4.5	Item 4 - Sultana Stockpile

NUCLEAR METHOD USED; DIRECT TRANSMISSION

Remarks: TSG = Top of Subgrade

Respectfully Submitted,
SJB SERVICES, INC.

Parviz Akbari 11-19-18
Geotechnical Engineer, E.I.T.

TECHNICIAN: D. Burdick

Special Inspector:

APPENDIX

Q AGRONOMY TEST REPORTS

May 28, 2019

To: OSC

Submittal: Ithaca, NY

To Whom It May Concern Lakeside Sod Supply will supply grass seed & fertilizer for this project.

Grass Seed,
30% Perennial rye
30% Annual rye
20% Kentucky Blue
20% Creeping Red Fescue
Seed rate 7 to 8 #s 1000 sq. ft.

Starter Fertilizer,
21-14-7 48% slow release nitrogen, phosphorus with avail.
50 # bag -- 13,000 sq. ft.

Best regards,
John Braddell
Lakeside Sod Supply

Agro-One Soil Analysis

with Cornell Nutrient Guidelines

Agro-One
730 Warren Road
Ithaca, NY 14850
Phone: (800) 344-2697
Fax: (607) 257-1350
www.dairyone.com

Soil & Plant Program 2017 NAPT Participating Laboratory

Cornell University College of Agriculture and Life Sciences

Agro-One Agronomy Services

Also sent to:

Lab Sample ID:	**73274840**
Field/Location:	TOPSOIL #1
Date Sampled:	07/01/2019
Date Tested:	07/03/2019
Statement ID:	NATE WINSTON
Description:	
County:	Tompkins

T

NATE WINSTON
620 SOUTH AURORA ST
ITHACA, NY 14850

Emails/Phones: NATE WINSTON: nathaniel.winston@wsp.com

Element	lbs/acre*	Very Low	Low	Optimum	High	Very High
Phosphorus (P)	13					
Potassium (K)	876					
Calcium (Ca)	3,496					
Magnesium (Mg)	566					

Element	Value	Element	Value	Element	Value
Soil pH	6.4	Manganese (Mn), lbs/acre	31	% OM	7.4
Buffer pH	6.2	Zinc (Zn), lbs/acre	1		
Iron (Fe), lbs/acre	3	Aluminum (Al), lbs/acre	46		

Sample Information Summary

Soil Name:	Howard	Crop Code:	ROD
Soil Texture:	Loamy	Type:	Maintenance
Soil Drainage:	Good	Species:	Not Specified

Soil Fertilizer Recommendations	**lbs/1000 sqft**	**lbs/1000 sqft**		
Crop	Lime	N Range	P2O5 Range	K2O
Roadside Turf	0.00	0.9 - 1.8	0.0	0.00

Comments - Improve yield and plant quality as well as protect the environment with proper fertilization.

* Modified Morgan analysis results reported in pounds per acre.

For assistance interpreting your report, contact your local Cooperative Extension office at 607-272-2292 or http://cce.cornell.edu/Pages/Default.aspx for a complete list of Cornell Cooperative Extension offices.

Nutrient recommendations provided by Cornell University.

These are general comments. Always consult with your crop adviser for recommendations specific to your farm.

Please note: if requested yield goals exceed the stated minimum or maximum, the minimum or maximum value, respectively, will be used to generate recommendations.

- If an analysis result is not referred to specifically in the recommendations or comments then levels are considered normal.
- Nitrogen should be applied at rates of 1/2 to 1 lb/1000 sq ft. Higher rates may be used when slow release sources are used.

Visit http://cnal.cals.cornell.edu/links/index.html or www.dairyone.com/AgroOne for interpretive information.

4M

Agro-One Soil Analysis

with Cornell Nutrient Guidelines

Agro-One
730 Warren Road
Ithaca, NY 14850
Phone: (800) 344-2697
Fax: (607) 257-1350
www.dairyone.com

Also sent to:

Lab Sample ID:	**73274840**
Field/Location:	TOPSOIL #1
Date Sampled:	07/01/2019
Date Tested:	07/03/2019
Statement ID:	NATE WINSTON
Description:	
County:	Tompkins

T

NATE WINSTON
620 SOUTH AURORA ST
ITHACA, NY 14850

Emails/Phones: NATE WINSTON: nathaniel.winston@wsp.com

- The recommended rates above are an annual nutrient requirement for this crop.
- Nitrogen recommendations in the table above are for the entire year.

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4M

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Phone: (800) 344-2697
Fax: (607) 257-1350
www.dairyone.com

Soil & Plant Program 2017 NAPT Participating Laboratory

Cornell University College of Agriculture and Life Sciences

Agro-One Agronomy Services

Also sent to:

NATE WINSTON
620 SOUTH AURORA ST
ITHACA, NY 14850

Lab Sample ID:	**73274850**
Field/Location:	TOPSOIL #2
Date Sampled:	07/01/2019
Date Tested:	07/03/2019
Statement ID:	NATE WINSTON
Description:	
County:	Tompkins

T

Emails/Phones: NATE WINSTON: nathaniel.winston@wsp.com

Element	lbs/acre*	Very Low	Low	Optimum	High	Very High
Phosphorus (P)	40					
Potassium (K)	777					
Calcium (Ca)	4,064					
Magnesium (Mg)	739					

Element	Value	Element	Value	Element	Value
Soil pH	6.4	Manganese (Mn), lbs/acre	26	% OM	8.8
Buffer pH	6.1	Zinc (Zn), lbs/acre	2		
Iron (Fe), lbs/acre	3	Aluminum (Al), lbs/acre	30		

Sample Information Summary

Soil Name:	Howard	Crop Code:	ROD
Soil Texture:	Loamy	Type:	Maintenance
Soil Drainage:	Good	Species:	Not Specified

Soil Fertilizer Recommendations	**lbs/1000 sqft**	**lbs/1000 sqft**		
Crop	Lime	N Range	P2O5 Range	K2O
Roadside Turf	0.00	0.9 - 1.8	0.0	0.00

Comments - Improve yield and plant quality as well as protect the environment with proper fertilization.

* Modified Morgan analysis results reported in pounds per acre.

For assistance interpreting your report, contact your local Cooperative Extension office at 607-272-2292 or http://cce.cornell.edu/Pages/Default.aspx for a complete list of Cornell Cooperative Extension offices.

Nutrient recommendations provided by Cornell University.

These are general comments. Always consult with your crop adviser for recommendations specific to your farm.

Please note: if requested yield goals exceed the stated minimum or maximum, the minimum or maximum value, respectively, will be used to generate recommendations.

- If an analysis result is not referred to specifically in the recommendations or comments then levels are considered normal.
- Nitrogen should be applied at rates of 1/2 to 1 lb/1000 sq ft. Higher rates may be used when slow release sources are used.

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4M

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Lab Sample ID:	**73274850**
Field/Location:	TOPSOIL #2
Date Sampled:	07/01/2019
Date Tested:	07/03/2019
Statement ID:	NATE WINSTON
Description:	
County:	Tompkins

T

NATE WINSTON
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ITHACA, NY 14850

Emails/Phones: NATE WINSTON: nathaniel.winston@wsp.com

- The recommended rates above are an annual nutrient requirement for this crop.
- Nitrogen recommendations in the table above are for the entire year.

Visit http://cnal.cals.cornell.edu/links/index.html or www.dairyone.com/AgroOne for interpretive information.

4M

APPENDIX

R PHOTOGRAPH LOG

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
1	October 26, 2018

AOC 1

Final excavation, utilities, demarcation layer, and backfilling

Photo No.	**Date**
2	November 8, 2018

AOC 1

Geosynthetic clay liner installation

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
3	September 27, 2019

AOC 1

Final asphalt cap surface

Photo No.	**Date**
4	December 5, 2018

AOC 26 (Interior)

Pavement removal and excavation

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
5	May 20, 2019

AOC 26 (Interior)

Final restored surface (concrete)

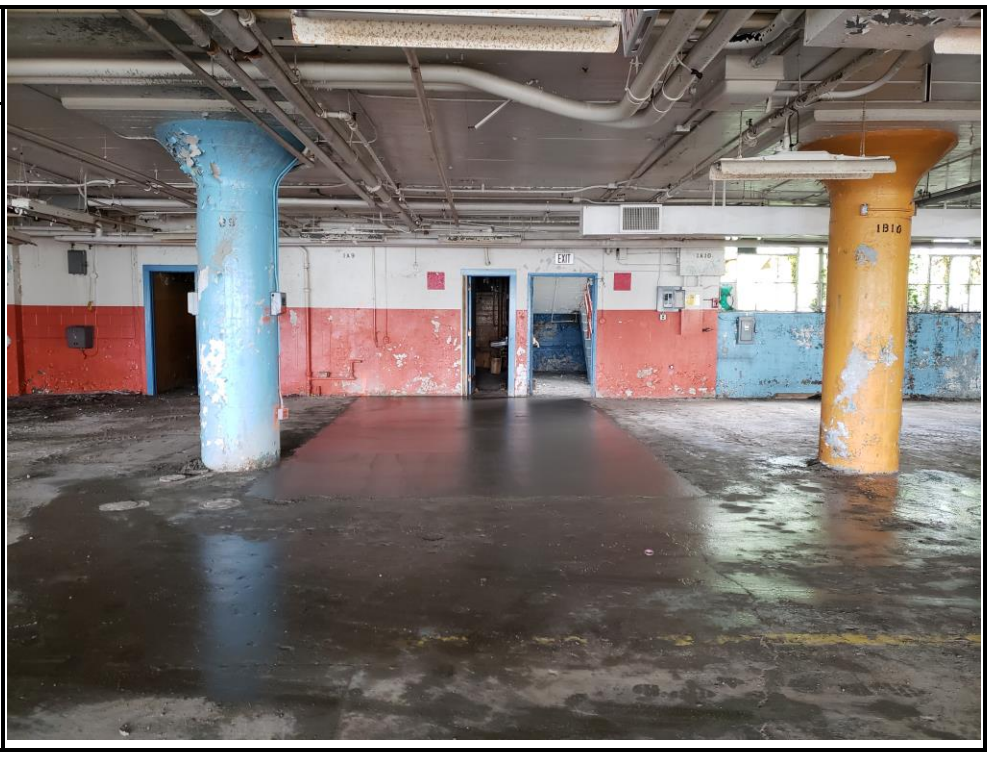


Photo No.	**Date**
6	June 3, 2019

AOC 26 (Exterior)

Pavement removal, excavation and loading (northern portion of AOC 26)

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
7	June 12, 2019

AOC 26

Backfilling

Photo No.	**Date**
8	September 26, 2019

AOC 26

Final paved surface and drainage ditch restoration

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
9	December 11, 2018

AOC 27

Initial conditions and concrete removal

Photo No.	**Date**
10	January 7, 2019

AOC 27

Excavation to competent bedrock

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
11	July 25, 2019

AOC 27

Condition after vacuuming of loose residuals

Photo No.	**Date**
12	July 30, 2019

AOC 27

Backfilled with controlled density fill (flowable fill)

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
13	October 23, 2018

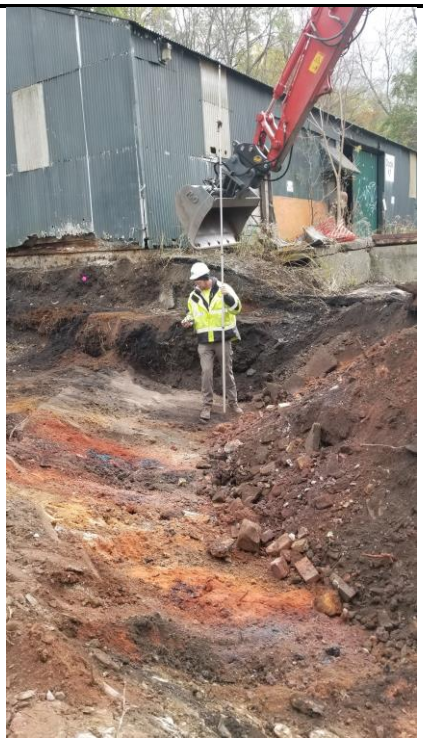
AOC 28

Excavation of lower portion at base of bedrock outcrop

Photo No.	**Date**
14	October 29, 2018

AOC 28

Identification of discolored materials



PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**	
15	November 15, 2018	
AOC 28 Excavation of discolored materials and compliance sampling locations (marked by pink flags)		

Photo No.	**Date**	
16	October 18, 2019	
AOC 28 Backfill, topsoil, and grass		

Photo No.	**Date**	

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

17	November 1, 2018

AOC 29

Tanks saddle removal and excavation

Photo No.	**Date**
18	November 5, 2018

AOC 29

Excavation and compliance sampling

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
19	November 12, 2018

AOC 29

Demarcation layer and backfilling

Photo No.	**Date**
20	October 30, 2018

AOC 30

Excavation of deep pits to address PCBs

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
21	November 8, 2018

AOC 30

Erosion and sedimentation controls and excavation

Photo No.	**Date**
22	September 27, 2019

AOC 30

Final backfilled surface

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
23	October 18, 2019

AOC 30

Final grassed surface

Photo No.	**Date**
24	November 6, 2018

AOC 31

Excavation

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
25	October 18, 2019

AOC 31

Backfilled and grassed surface

Photo No.	**Date**
26	June 27, 2019

AOC 32 Lower

Excavation and stockpiling

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
27	July 15, 2019

AOC 32 Lower

Drainage ditch flow bypass equipment

Photo No.	**Date**
28	July 15, 2019

AOC 32 Lower

Excavation near retaining wall and landscape planter

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
29	August 2, 2019

AOC 32 Lower

Addition of drying agent (sawdust) to solidify wet drainage ditch soil

Photo No.	**Date**
30	August 15, 2019

AOC 32 Lower

Backfilling and bypass piping

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
31	August 20, 2019

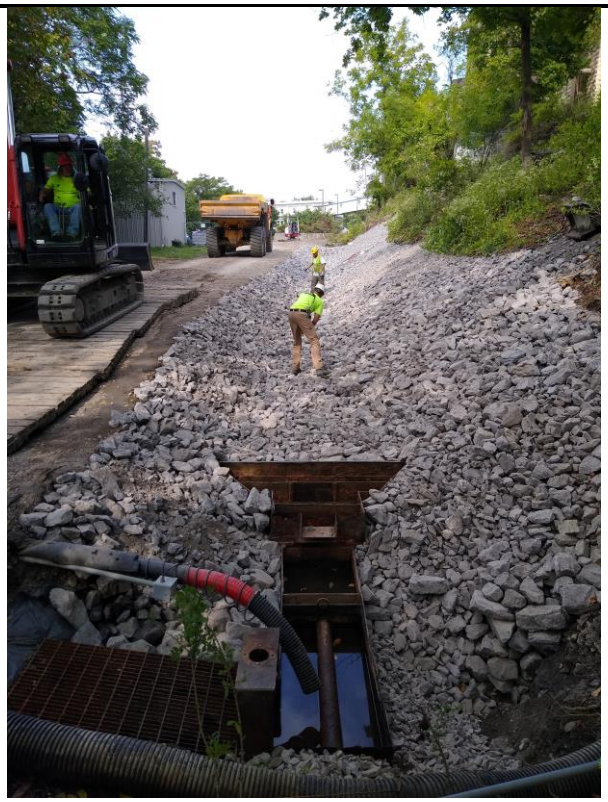
AOC 32 Lower

Backfilling, drainage ditch grading, slope protection

Photo No.	**Date**
32	September 16, 2019

AOC 32 Lower

Skimmer and weir box replacement



PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
33	September 24, 2019

AOC 32 Lower

Restored drainage ditch, slope protection, and AOC 32 backfill

Photo No.	**Date**
34	September 24, 2019

AOC 32 Lower

Restored drainage ditch, slope protection, and AOC 32 backfill

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
35	September 27, 2019

AOC 32 Lower

Restored drainage ditch, slope protection, AOC 32 backfill, and pavement patch at DS-28 sample location

Photo No.	**Date**
36	October 18, 2019

AOC 32 Lower

Final grassed surface and drainage ditch

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
37	November 22, 2019

AOC 32 Lower

Temporary water storage

Photo No.	**Date**
38	December 19, 2018

AOC 32 Upper

Excavation

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
39	September 26, 2019

AOC 32 Upper

Riprap placement

Photo No.	**Date**
40	October 28, 2019

AOC 32 Upper

Final restored drainage ditch

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
41	November 14, 2018

AOC 34

Initial excavation of PAH soil along grassed strip between road and building

Photo No.	**Date**
42	May 15, 2019

AOC 34

Final excavation in PAH area

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
43	May 16, 2019

AOC 34

Pavement removal and excavation of CVOC soil

Photo No.	**Date**
44	September 27, 2019

AOC 34

Pavement restoration and backfill

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
45	October 18, 2019

AOC 34

Final conditions

Photo No.	**Date**
46	November 7, 2018

AOC 35A

Initial excavation

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
47	September 26, 2019

AOC 35A

Demarcation layer and soil cover construction

Photo No.	**Date**
48	October 18, 2019

AOC 35A

Final soil cover and grassed surface

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
49	November 26, 2018

AOC 35C

Concrete floor removal

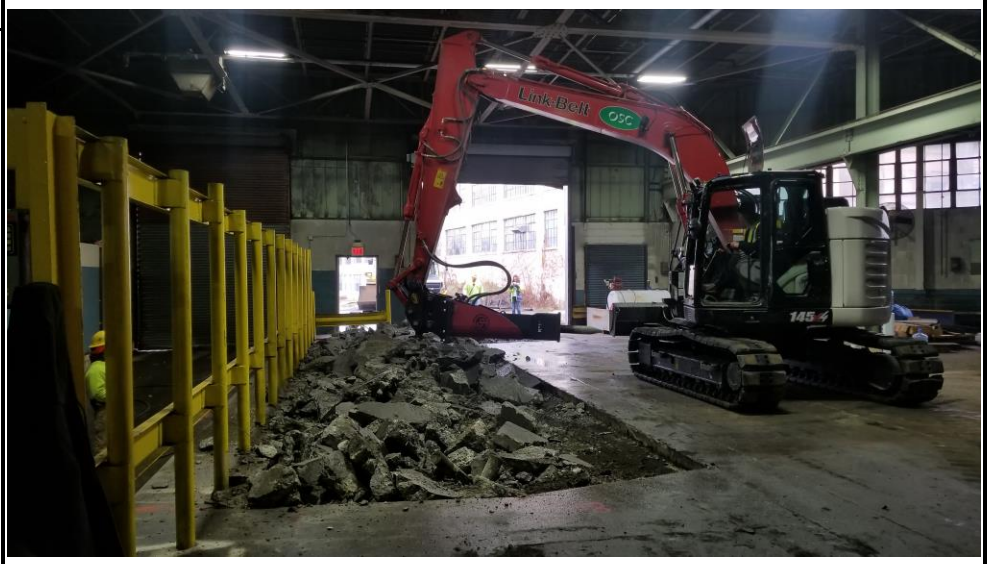


Photo No.	**Date**
50	November 27, 2018

AOC 35C

Excavation to bedrock

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
51	November 6, 2018

AOC 35D

Excavation

Photo No.	**Date**
52	November 9, 2018

AOC 35H

Excavation

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
53	September 27, 2019

AOC 35H

Backfilled surface

Photo No.	**Date**
54	May 22, 2019

AOC 35K & 35L

Excavation and loading

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
55	May 23, 2019

AOC 35K & 35L

Final excavation

Photo No.	**Date**
56	June 16, 2019

AOC 35K & 35L

Backfilling

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
57	October 18, 2019

AOC 35K & 35L

Final grassed surface

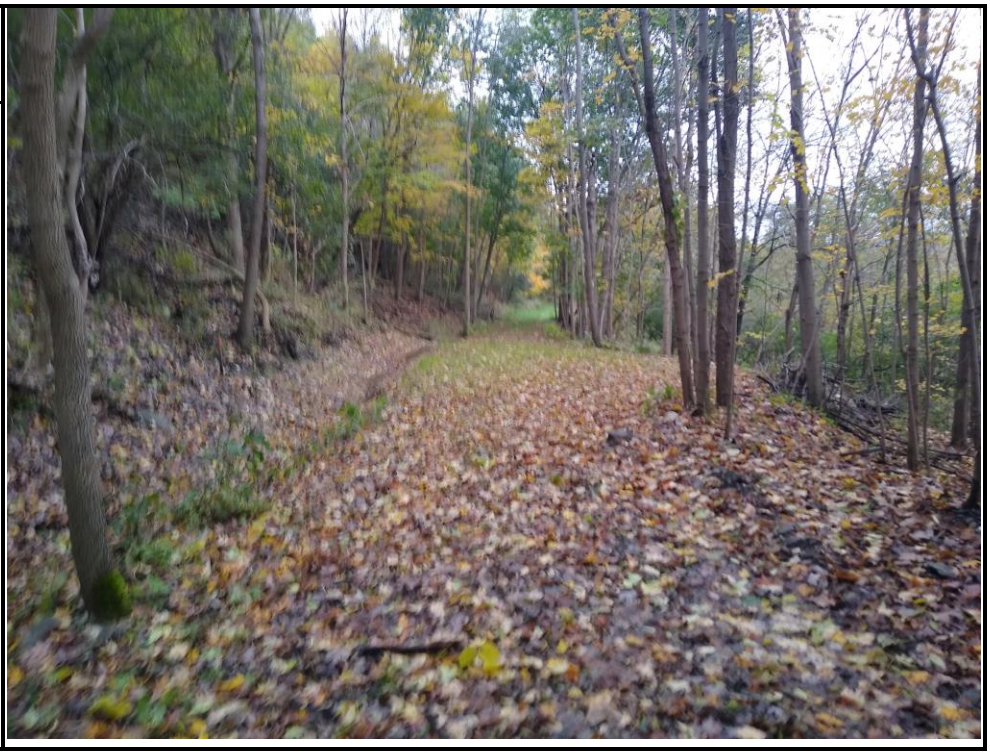


Photo No.	**Date**
58	November 19, 2018

AOC 35G

Excavation along slope

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
59	August 15, 2019

AOC 35G

No. 2 stone placed for slope protection

Photo No.	**Date**
60	August 15, 2019

AOC 35G

Stone placed for slope and drain outlet protection

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
61	January 9, 2019

Sanitary Sewers

Sample test pit (TPs 15 and 17)

Photo No.	**Date**
62	January 17, 2019

Sanitary Sewers

Vacuum extraction of manhole contents

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
63	October 28, 2019

Sanitary Sewers

Vacuum extraction of residuals after excavation of pipe sanitary sewer trench in Building 13A

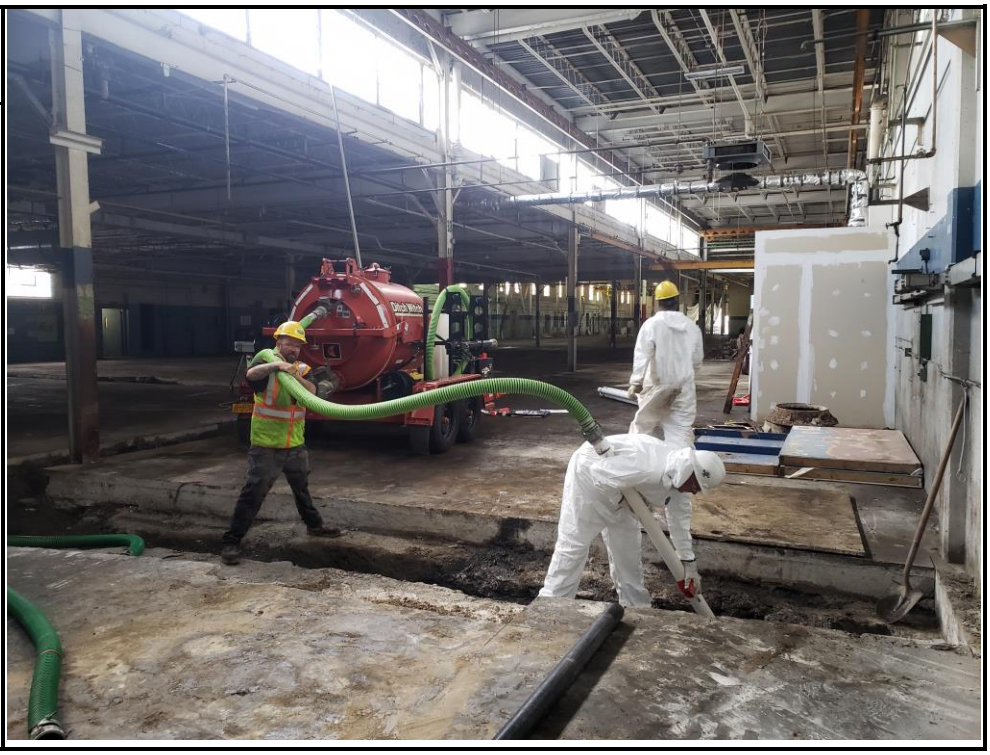


Photo No.	**Date**
64	October 28, 2019

Sanitary Sewers

Surface restoration of excavated and backfilled sanitary sewer trench in Building 13A

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
65	October 17, 2018

Soil Management

Stockpile area inside Building 35

Photo No.	**Date**
66	May 23, 2019

Soil Management

Loadout of stockpiled materials

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**
67	October 28, 2019

Soil Management

Stockpile area inside Building 13A

Photo No.	**Date**
68	October 28, 2019

Soil Management

Stockpile area in Parking Lot 6

PHOTOGRAPH LOG		
Emerson	**Former Emerson Power Transmission Facility Ithaca, New York**	**31401545.001**

Photo No.	**Date**	
69	October 28, 2019	
Soil Management Stockpile area inside Building 35		