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Subject:
National Grid
North Albany Service Center
Versaire Building Drainage Improvements
Soil and Concrete Characterization Sampling Summary Report

ENVIRONMENT

Dear Mr. MacNeal:

Date:
September 27, 2019

On behalf of National Grid, this letter summarizes the work performed and findings of a focused investigation performed at the National Grid North Albany Service Center in August 2019. The investigation was performed to evaluate conditions within the footprint of proposed drainage improvements to be constructed in and around the Versaire Building. The investigation characterized soil outside the Versaire building, the concrete floor slab inside the building, and soil below the floor slab. The investigation was conducted by Arcadis of New York, Inc. (Arcadis) and subcontractors during the week of August 5, 2019. Fieldwork and laboratory analyses were performed in accordance with the work plan contained in my July 30, 2019 e-mail correspondence to the New York State Department of Environmental Conservation (NYSDEC), which was approved by the NYSDEC on July 31, 2019.

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30031443 #12

The investigation provided data to assess environmental requirements, including material handling, air monitoring, worker training, and other requirements, for National Grid's contractors that will be constructing the drainage improvements. As summarized herein, the soil analytical results are all less than the NYSDEC commercial soil cleanup objectives (SCOs) presented in Title 6 of the New York Codes, Rules, and Regulations (6 NYCRR) Part 375-6.8b, with one minor exception. The concrete analytical results indicate that the concrete floor slab does not exhibit any Resource Conservation and Recovery Act (RCRA) hazardous waste characteristics.

Relevant background information, including an overview of the proposed drainage improvements and historical environmental data for the area near the Versaire Building, is presented below and followed by a summary of the focused investigation and proposed environmental requirements for the contractors that will construct the drainage improvements.

I. BACKGROUND INFORMATION

The proposed Versaire Building drainage improvements involve excavation/trenching for installation of the following new drainage features:

- *French Drain:* Approximately 158 lineal feet of new 8-inch diameter perforated high-density polyethylene (HDPE) underdrain piping and four associated drain basins on the west side of the building.
- *Expanded Storm Sewer System:* Approximately 197 lineal feet of new 12-inch diameter HDPE storm sewer piping, a new 30-foot long reinforced concrete trench drain west of the Versaire Building, and three new 4-foot diameter pre-cast concrete catch basins (with 18-inch deep sumps) along the west and south sides of the building.
- *Replacement Interior Trench Drains:* New composite trench drains and 4-inch diameter sanitary pipe and an above-ground oil-water separator inside the building.

The proposed drainage improvements outside and inside the Versaire Building, including the approximate excavation/installation depths for the new drainage features, are shown on Figures 1 and 2, respectively. As shown on the figures, the excavations for the new French drain, trench drains, oil-water separator tank, and sanitary pipe are anticipated to be relatively shallow (approximately 2.5 to 4 feet deep). The excavations for the new storm sewer piping and outdoor trench drain are anticipated to be deeper, extending approximately 4 to 6 feet below ground surface (bgs). Excavations for the catch basins are anticipated to be approximately 7 to 9 feet deep.

National Grid currently and historically has used part of the Versaire Building for polychlorinated biphenyl (PCB) storage and hazardous waste storage (less than 90-day storage). Based on review of historical site investigation reports and data, soil within the footprint of the proposed drainage improvements and concrete inside the building had not previously been characterized. Soil borings had been drilled approximately 25 to 50 feet horizontally away from the building and sampled for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). The soil boring logs and analytical data show that soil at those locations is unimpacted or relatively-unimpacted by the former manufactured gas plant (MGP). Refer to Figure 3 for soil analytical results for historical sampling locations closest to the Versaire Building.

Due to the site operational history and absence of characterization analytical data for the immediate work area, National Grid elected to pre-characterize soil and concrete within the proposed work limits for the drainage improvements.

II. FOCUSED INVESTIGATION SUMMARY

Work performed as part of the focused investigation fieldwork is described below, followed by a summary of the investigation findings.

A. Focused Investigation Fieldwork

Before drilling and sampling began, subsurface utilities in and around the work area were cleared by: (1) utility mark-outs by Dig-Safely New York; (2) a geophysical survey by National Grid's contractor, GPRS, Inc.; and (3) vacuum excavation at each proposed soil boring/sampling location outside the Versaire Building by Cascade Technical Services (Cascade) as a subcontractor to Arcadis. Details of the sampling

outside and inside the Versaire Building and community air monitoring performed in connection with the focused investigation are presented below.

Outdoor Soil Sampling

Cascade completed soil borings at eight locations outside the building (locations VER-SBO-1 through VER-SBO-8 as shown on Figure 1) to evaluate existing soil conditions at two of the three proposed new catch basin locations, two locations along the new storm sewer piping alignment, one location within the new trench alignment (east of the overhead door, maintaining access into the building), two locations along the new underdrain alignment, and one location within the footprint of the proposed oil-water separator tank. The proposed soil boring locations outside the Versaire Building were spaced to provide coverage for each approximately 50 lineal feet of trench to be excavated for the new drainage features. The borings were completed using a combination of vacuum excavation, hand-auger, and direct-push drilling techniques to depths ranging from approximately 3.5 to 9.5 feet below ground surface (bgs) as indicated in Table 1.

Soil samples were collected from each boring, approximately every 1-foot, for visual characterization (soil classification, color, texture, moisture content, potential impacts) and photoionization detector (PID) headspace screening. Soil boring logs are included in Attachment 1. As indicated on the logs, the top 1 foot of material encountered at each sampling location consisted of approximately 4-inches of asphalt pavement over 8 inches of crusher run stone. Historic fill material, consisting primarily of fine sand with coarse gravel and brick debris, was encountered below the crusher run stone at all locations. Glass shards were also encountered in the fill at location VER-SBO-1 from 2 to 3 feet bgs, and gravel and cobbles were encountered in the fill at location VER-SBO-2 from 1 to 2 feet bgs. The soil recovered from the borings did not exhibit any non-aqueous phase liquid (NAPL), staining, sheens, or odors (except a slight odor and grease-like coating were noticed in soil recovered from the 1 to 2.5-foot interval at location VER-SBO-5). Groundwater was not encountered in any of the soil borings. Soil samples from the borings were submitted for laboratory analysis as indicated in Table 1 and summarized below:

- The soil sample from the first soil interval below the asphalt pavement and crusher run stone at each location was submitted for laboratory analysis for PCBs.
- One discrete grab sample from the first soil interval below the asphalt pavement and crusher run stone at five locations (including one sample each from alternating borings VER-SBO-2, VER-SBO-4, VER-SBO-6, and VER-SBO-8 and one discrete grab sample from the greasy-like material at location VER-SBO-5) were submitted for laboratory analysis for VOCs, SVOCs, and inorganic constituents.
- One discrete grab sample from borings VER-SBO-1 and VER-SBO-5 were submitted for laboratory analysis for emerging contaminants, consisting of poly- and per-fluorinated alkyl substances (PFAS) and 1,4-dioxane.

The soil borings were backfilled to within a few inches of the ground surface using soil cuttings and vacuum-excavated soils. The pavement at each sampling location was not restored because it will be removed by the planned excavations for the drainage improvements. Stone dust was placed atop the borings to match the surrounding grade.

Indoor Concrete and Soil Sampling

Cascade collected pulverized concrete samples from the concrete floor slab at six locations inside the Versaire Building (locations VER-CONC-1 through VER-CONC-3 and VER-CONC-5 through VER-CONC-7, as shown on Figure 2). Sampling was not performed at proposed concrete sampling location VER-CONC-4 due to concerns about the proximity of a sub-slab electric line. An apparent second (underlying) concrete slab was encountered during drilling at a depth of approximately 7 to 8 inches below the existing concrete floor slab at locations VER-CONC-1, VER-CONC-2, and VER-CONC-7. This second slab, which was identified by its darker color and different concrete aggregate size, was suspected to be the bottom of a former trench drain inside the building. Pulverized concrete samples from the Versaire Building floor slab were collected from the following intervals and submitted for laboratory analysis as follows:

- *Top 3 Inches of Existing Concrete Floor Slab:* Each sample from the top 3 inches of the concrete floor slab was submitted for laboratory analysis for PCBs (total of six samples).
- *Top 3 Inches of Suspected Underlying Floor Slab:* Each sample from the top 3 inches of the suspected second slab at locations VER-CONC-1, VER-CONC-2, and VER-CONC-7 was submitted for laboratory analysis for PCBs. These samples were submitted for analysis to evaluate potential direct PCB impacts from past use of the suspected former concrete trench drain.
- *Full Penetrable Depth of Concrete Slab:* Samples were collected through the full penetrable depth of the concrete slab (which in some cases was the full extent of the concrete slab) at each of the six concrete slab sampling locations. Cascade was not able to drill through the full depth of the concrete at all locations due to higher strength concrete, a thicker slab section, and more steel rebar than anticipated for the selected hammer drill. The full penetrable-depth samples from locations VER-CONC-1 (0-12") and VER-CONC-2 (0-14") were composited to form sample VER-COMP-C1, and the full penetrable-depth samples from locations VER-CONC-5 (0-17") and VER-CONC-7 (0-15") were composited to form sample VER-COMP-C2. These two composite samples, plus full penetrable-depth discrete samples from locations VER-CONC-3 (0-14.5") and VER-CONC-7 (0-15"), were submitted for laboratory analysis for RCRA waste characteristics (i.e., Toxicity Characteristic Leaching Procedure [TCLP] VOCs, TCLP SVOCs, TCLP metals, ignitability, reactivity) and asbestos.

Cascade fully-penetrated the concrete at sampling location VER-CONC-2, allowing a sub-slab soil (sample VER-SBI-2) to be collected from a depth of 0 to 1 foot below the bottom of the slab. Soil below the slab was observed to be general fill with some brick debris, not crusher run stone, and exhibited no staining or obvious odors. Soil sample VER-SBI-2 was submitted for laboratory analysis for PCBs, TCL VOCs, TCL SVOCs, and TAL inorganic constituents (including cyanide).

The core holes generated by drilling in the Versaire Building concrete floor slab were topped with concrete to eliminate potential trip hazards before the drainage improvements construction work begins.

Community Air Monitoring

Community air monitoring was performed during the outdoor drilling/sampling in accordance with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan (CAMP) included in Appendix 1A to the NYSDEC's Program Policy Document titled, DER-10 / Technical Guidance for Site Investigation and Remediation, dated May 3, 2010. This involved monitoring for VOC vapors and

particulates at one upwind and one downwind monitoring station. The monitoring equipment calculated 15-minute running average concentrations. No exceedances of the action levels specified in the CAMP were identified by the monitoring.

B. Focused Investigation Findings

The laboratory analytical data reports for the soil and concrete samples collected as part of the August 2019 Focused Investigation are presented in Attachment 2. The laboratory analytical results have not been validated as they are intended for screening purposes to evaluate potential environmental requirements for the proposed construction work. The electronic data deliverables (EDDs) will be separately e-mailed to the NYSDEC for upload to the NYSDEC's EQUIS database. The full laboratory analytical data reports (NYSDEC Analytical Services Protocol Category B data deliverables package) are available upon request. The soil and concrete analytical results are summarized below.

Soil Analytical Results

The soil analytical results for detected PCBs, VOCs, SVOCs, and inorganic constituents are presented in Table 2. The soil analytical results for detected PFAS are presented in Table 3. Results for the emerging contaminant 1,4-dioxane are not tabulated because 1,4-dioxane was not detected in either soil sample above the laboratory detection limits (see Attachment 2).

The soil analytical results in Table 2 are conservatively compared to the commercial use SCOs presented in 6 NYCRR Part 375-6.8(b). As indicated in Table 2, no PCBs, VOCs, SVOCs, or inorganic constituents were identified at concentrations exceeding the NYSDEC commercial SCOs except for lead in sample VER-SBO-4 (2-3') [at a concentration of 4,230 parts per million (ppm), which exceeds the 1,000 ppm commercial SCO]. Note that the lead concentration only slightly exceeds the 3,900 ppm industrial SCO.

The NYSDEC has not established SCOs for PFAS in soil. However, the NYSDEC's June 2019 guidance titled "Sampling for 1,4-Dioxane and Per- and Polyfluoroalkyl Substances (PFAS) Under DEC's Part 375 Remedial Programs" presents comparison values for two PFAS, perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA). It indicates that if PFOA or PFOS is detected in any sample at or above 1 part per billion (ppb), then a soil sample must be tested by the Synthetic Precipitation Leaching Procedure (SPLP) and the leachate analyzed. PFOS and PFOA were not identified above laboratory detection limits (0.54 ppb and 0.22 ppb, respectively) in either of the soil samples collected as part of this Focused Investigation. Four PFAS were identified in the samples, but the concentrations are also less than 1 ppb (except for the 6:2 FTS concentration, which may not be representative due to a laboratory quality assurance/quality control issue). Because the concentrations of the four PFAS are low and no other PFAS have been identified in the samples, soil in this area of the site does not appear to have a PFAS issue.

Concrete Analytical Results

The concrete analytical results for detected PCBs and RCRA waste characteristics are presented in Tables 4 and 5, respectively. The concrete analytical results for asbestos are provided in the laboratory report included in Attachment 2 (asbestos was not detected in any of the samples).

PCBs were not detected above laboratory detection limits in seven of the nine concrete samples. PCBs were identified at estimated concentrations of 0.12 ppm and 0.094 ppm in the concrete samples from the 0-3 inch and the 8-11 inch intervals, respectively, at sampling location VER-CONC-7. The PCB

concentrations in these two samples are well-below the 50 ppm disposal threshold for a Toxic Substances Control Act- (TSCA-) regulated PCB waste and New York State hazardous waste.

The concrete analytical results indicate that the concrete floor slab does not exhibit any Resource Conservation and Recovery Act (RCRA) hazardous waste characteristics. No VOCs or SVOCs were detected in leachate from TCLP sample extraction. Only three metals (arsenic, barium, and chromium) were detected in leachate from TCLP sample extraction, but the concentrations were two orders of magnitude or more below the regulatory limits presented in 6 NYCRR Part 371. The laboratory results also indicate that the samples were not ignitable or reactive.

III. PROPOSED ENVIRONMENTAL REQUIREMENTS FOR DRAINAGE IMPROVEMENTS

The soil around the Versaire Building and beneath the building's floor slab appears to be unaffected by the former MGP. Lead was the only constituent identified in the focused investigation soil samples at a concentration exceeding the commercial or industrial SCOs. Lead was identified within historic fill in one area north of the Versaire Building [location VER-SBO-4 (2-3')] at a concentration of 4,230 ppm. Per Section 1.2 of the TCLP, for a waste that is 100% solid, the results of the total constituent analysis may be divided by 20 to convert the total results into the maximum leachable concentration. This factor is derived from the 20:1 liquid-to-solid ratio employed in the TCLP. Accordingly, the maximum lead concentration in the leachate of sample VER-SBO-4 (2-3') would be 212 ppm (i.e., 4,230 ppm divided by 20). This value is greater than the 5 ppm regulatory limit for a characteristic hazardous waste due to lead (waste code D008). This data does not necessarily mean that the soil from this location, as generated, is a hazardous waste; it simply suggests the potential for the soil to be hazardous for lead.

The proposed excavation for the Versaire Building drainage improvements will be accomplished using a standard excavator or backhoe. Sidewall support (e.g., trench boxes, sloping, benching, etc.) will be provided for excavations extending below 5 feet bgs or within shallower soils that are unstable, as required per Occupational Safety and Health Administration (OSHA) requirements outlined in 29 CFR 1926, Subpart P. The groundwater table is not anticipated to be encountered during excavation; however, runoff from precipitation may collect within the excavation. The following environmental requirements have been established for the soil and water handling aspects of the proposed drainage improvements construction work:

1. *Health & Safety:* A site-specific Health and Safety Plan (HASP) will be developed to fulfill the requirements of 29 CFR 1910 and 29 CFR 1926 and cover contractor and subcontractor personnel who will be performing the intrusive work. Contractor staff performing intrusive work activities (excavation, soil handling) will be required to have OSHA 40-hour Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) training, including 8-hour annual refresher course updates, and medical clearance in accordance with 29 CFR 1910.120. The contractor will use appropriate personal protective equipment as required by the HASP. Orange construction fence, barrels, and/or caution tape attached to temporary/moveable posts or drums will be used to demarcate the work area. Signage will also be installed to prevent unauthorized/untrained personnel from entering the work area.
2. *Dust/Vapor/Emissions Controls & Community Air Monitoring:* The contractor will be required to implement dust, vapor, and odor control measures, as needed, based on air monitoring and visual assessment (by Arcadis or National Grid safety personnel) during intrusive and material handling

activities to maintain particulate and volatile organic vapor levels below the action limits identified in the Community Air Monitoring Plan (CAMP) contained in Appendix 1A to of the NYSDEC document titled, "DER-10 Technical Guidance for Site Investigation and Remediation," (DER-10) issued on May 3, 2010. Air monitoring will be performed upwind and downwind in accordance with the protocols presented in the CAMP. The 15-minute average air monitoring readings will be recorded by data loggers and will be available to the NYSDEC upon request. Instantaneous readings used to make decisions will also be documented and made available.

3. *Excavation/Material Handling:* The pavement within the proposed excavation area will be removed and transported for offsite recycling. The underlying crusher run stone and fill material will be excavated to target depths and stockpiled onsite for reuse as subsurface fill material, except for the fill material around sampling location VER-SBO-4, which will be loaded directly into one or two roll-off waste containers for waste characterization sampling. Each roll-off will be lined with one layer of polyethylene sheeting (minimum 10-mil thickness). In addition, the roll-offs will be covered with a low-permeability tarp (mesh tarps are prohibited) at the end of the workday, prior to departing the site, and during transport. All covers and roll-off gates are to be water-tight and securely closed to prevent leakage or release of wastes during transport. The waste soil/debris generated by the excavation around sampling location VER-SBO-4 will be shipped from the site under waste manifest (non-hazardous or hazardous waste, depending on characterization sampling results). The waste manifests will be signed by National Grid or Arcadis (as an agent for National Grid).
4. *Water Management:* The proposed work will be installed during dry conditions, if possible. Diversion berms will be used (if needed) to direct storm water runoff around the excavation area, to minimize water handling. Runoff that collects in the excavation or material staging area (if any) will be removed by pump and/or a vacuum truck, as needed. Water generated by gravity dewatering of the excavated soils and equipment decontamination will be transferred into an appropriate container (e.g., 55-gallon drums, portable storage tank, or vacuum truck). The wastewater generated by the project will be characterized and transported to an industrial wastewater treatment facility for offsite treatment/discharge, as appropriate based on the characterization sampling results.
5. *Erosion and Sedimentation Control Measures:* The ground surface in the proposed work area slopes gently to the east (toward the Versaire Building). As indicated above, diversion berms will be used as needed to direct runoff around the excavation area. Based on existing topography and the proposed excavation shape/depth, there will be no storm water "run-off" out of the excavation area. Although erosion and sedimentation control measures such as silt fencing, straw bales, or waddles are not anticipated to be needed, waddles (e.g., Siltsoxx™) will be available for use downslope from the work area should conditions change. In addition, excavated reuse materials will be stockpiled in a lined material staging area consisting of polyethylene sheeting placed over the asphalt pavement and sidewalls formed using hay bales, jersey barriers, or similar. The stockpile will be covered to minimize contact with precipitation.
6. *Imported Fill:* The proposed excavations will be backfilled using a combination of imported crusher run stone and reuse soil. If the imported fill is gravel, rock or stone, consisting of virgin material from a permitted mine or quarry, with less than 10% (by weight) passing through a size 80 sieve, the fill is anticipated to meet the NYSDEC's sampling exemption outlined in Section 5.4(e)(5).(i.) of DER-10. If run-of-bank gravel and sand is to be used as backfill, the material will be sampled in accordance with

the requirements outlined in Section 5.4(e) of DER-10 (i.e., one discrete grab sample submitted for laboratory analysis of VOCs and one composite sample submitted for laboratory analysis for PCBs, pesticides, SVOCs [including 1,4-dioxane], inorganic constituents, and PFAS). The constituent list shall be consistent with that presented in Appendix 5 of DER-10, and the laboratory analytical results must meet the SCOs for commercial or industrial use (as presented in Appendix 5) in order for the soil to be imported and used as backfill at the site.

7. *Demarcation:* As indicated above, a demarcation layer will be installed to line the excavation bottom and sidewalls at least near sampling location VER-SBO-4. The demarcation will designate the interface of the imported clean fill and surrounding soil that may have residual impacts. The demarcation layer will be placed in the excavation upon reaching the excavation limits. It will also provide a physical barrier to remaining soil for workers who may need to enter the excavation to install new storm catch basins, trench drain, or sewer/underdrain piping or compact soil around these structures. To the extent possible, the work will be performed without manned entry into the excavation.
8. *Decontamination:* The contractor will be required to decontaminate equipment that contacts potentially-impacted soil. The equipment will be decontaminated by wiping and/or brushing off adhered soil/debris over the roll-off waste container. The limited wash water anticipated to be generated by equipment decontamination will be absorbed by the soil or collected in a container for offsite disposal.

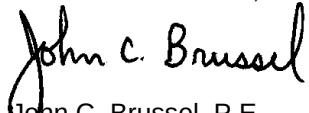
A full-time onsite representative will observe and document the soil management work and perform community air monitoring. A report will be prepared that summarizes the work and community air monitoring results. This report will be submitted to the NYSDEC within approximately one month following completion of the work activities.

We trust that the environmental requirements proposed above are acceptable to the NYSDEC. We will follow-up with you as far in advance as possible to let you know the dates for the proposed construction. National Grid anticipates holding a pre-construction meeting with the contractor next week on Thursday, October 3, 2019. Let us know if you would like to attend the pre-construction meeting or visit the site during construction, and we can arrange to meet you there.

Please do not hesitate to contact Garry Cummins (National Grid Site Investigation and Remediation Project Manager at 315.440.5825), Matt Root (National Grid Safety, Health and Environment Compliance at 518.433.3696) or the undersigned at 315.671.9441 if you have any questions or need additional information.

Sincerely,

Arcadis of New York, Inc.



John C. Brussel, P.E.

Principal Engineer/Certified Project Manager

Mr. Douglas MacNeal, P.E.
New York State Department of Environmental Conservation
September 27, 2019

Copies:

Mr. Gerald P. Cummins, National Grid (via e-mail)
Mr. Matthew Root, National Grid (via e-mail and hard copy)
Mr. Steven S. Plansker, National Grid (via e-mail)
Mr. Andrew R. Blaszkow, Nelson Associates Architectural Engineering (via e-mail)

Enclosures:

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- 5 Concrete Analytical Results for RCRA Waste Characteristics

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Attachments

- 1 Soil Boring Logs
- 2 Laboratory Analytical Data Reports

TABLES



Table 1
Summary of Sampling Locations and Laboratory Analyses

National Grid
Versaire Building Drainage Improvements
North Albany Former Manufactured Gas Plant Site
Albany, New York

Sample ID	Sample ID Suffix	Sample Collection Date	Sampling Location	Sample Depth (feet bgs)	Boring/ Coring Depth (feet)	Lab SDG #	Analytical Parameters				
							PCBs	VOCs, SVOCs, Inorganics	PFAS, 1-4 Dioxane	RCRA Waste Characteristics and Asbestos	
Outside Versaire Building											
Soil Samples											
VER-SBO-1	--	8/5/2019	24 feet north of replacement CB-3	1.0-1.5	6.5	J157207-1	X				
				3.0-4.0	6.5				X		
VER-SBO-2			Approximately 5 feet west from proposed CB-2 location	2.0-2.5	9.5		X	X			
VER-SBO-3			Mid-way between proposed CB-1 and CB-2	1.0-1.5	7.0		X				
VER-SBO-4		Proposed CB-1 location	2.0-3.0	8.5	X	X					
VER-SBO-5		8/6/2019	Proposed new trench drain location (east of garage door)	1.0-2.0	4.5	J157265-1	X	X	X		
VER-SBO-6		8/5/2019	Proposed underdrain location, 40 feet south of NW building corner	1.0-2.0	3.5	J157207-1	X	X			
VER-SBO-7		8/6/2019	Proposed underdrain location, 93 feet south of NW building corner	1.0-1.5	3.5	J157265-1	X				
VER-SBO-8			Proposed sanitary sewer cleanout location (east side of the Versaire building)	1.0-2.0	5.0		X	X			
Inside Versaire Building											
Concrete Samples											
VER-CONC-1	(3)	8/6/2019	Adjacent to (west side of) southernmost existing trench drain	0.00-0.25	1.00	J157382-1	X				
	(9)	8/7/2019		0.58-0.83			X				
VER-CONC-2	(3)	8/6/2019	West of second existing trench drain from south	0.00-0.25	0.92		X				
	(9)	8/7/2019		0.67-0.92			X				
VER-CONC-3	(3)	8/6/2019	West of third existing trench drain from south	0.00-0.25	1.21		X				
	Discrete	8/7/2019		0.00-1.21						X	
VER-CONC-4	--	--	West of fourth existing trench drain from south	(not collected due to proximity of sub-slab electric line)							
VER-CONC-5	(3)	8/7/2019	West of fifth existing trench drain from south	0.00-0.25	1.42	J157382-1	X				
VER-CONC-6	(3)		West of northernmost existing trench drain	0.00-0.25	0.25		X				
VER-CONC-7	(3)		Proposed oil-water separator location	0.00-0.25	1.25		X				
	(9)			0.67-0.92			X				
	Discrete			0.00-1.25							X
VER-COMP-C1	--	8/6/2019	Composite of VER-CONC-1 (0-12") & VER-CONC-2 (0-14")	Composite	--					X	
VER-COMP-C3		8/7/2019	Composite of VER-CONC-5 (0-17") & VER-CONC-7 (0-15")							X	

Table 1
Summary of Sampling Locations and Laboratory Analyses

National Grid
 Versaire Building Drainage Improvements
 North Albany Former Manufactured Gas Plant Site
 Albany, New York

Sample ID	Sample ID Suffix	Sample Collection Date	Sampling Location	Sample Depth (feet bgs)	Boring/ Coring Depth (feet)	Lab SDG #	Analytical Parameters			
							PCBs	VOCs, SVOCs, Inorganics	PFAS, 1-4 Dioxane	RCRA Waste Characteristics and Asbestos
Soil Samples										
VER-SBI-2	- -	8/7/2019	West of second existing trench drain from south	1 (below slab)	1.9	J157383-1	X	X		

Notes:

1. Samples were collected by Arcadis of New York, Inc. (Arcadis) on the dates indicated above.
2. Samples were analyzed by Eurofins TestAmerica of Amherst, New York for the following:
 - Polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082A
 - Target Compound List (TCL) volatile organic compounds (VOCs) using USEPA SW-846 Method 8260C
 - TCL semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 8270D
 - Target Analyte List (TAL) inorganic constituents using USEPA SW-846 Method 6010C, 7471B, and 9012B
 - 1,4-dioxane using USEPA SW-846 Method 8270D
 - Resource Conservation and Recovery Act (RCRA) waste characteristics:
 - Toxicity Characteristic Leaching Procedure (TCLP) VOCs using USEPA SW-846 Method 1311/8260C
 - TCLP SVOCs using USEPA SW-846 Method 1311/8270D
 - TCLP metals using USEPA SW-846 Method 1311/7470A/6010C
 - Ignitability (flashpoint) using USEPA Method 1010A
 - Reactivity (reactive sulfide and reactive cyanide) using USEPA Methods 9012/9034.
3. Samples were analyzed by Eurofins TestAmerica of Sacramento, California for poly- and per-fluorinated alkyl substances (PFAS) using modified USEPA Method 537.
4. Samples were analyzed by LaBella Associates of Rochester, New York for asbestos using USEPA Method EPA/600/R-93/116 (polarized light microscopy - PLM).
5. bgs = below ground surface.
6. SDG = sample delivery group.
7. -- = not applicable.
8. An X indicates analysis was conducted.
9. Analytical results have not been validated.

Table 2
Soil Analytical Results for Detected PCBs, VOCs, SVOCs, and Inorganics (ppm)

National Grid
 Versaire Building Drainage Improvements
 North Albany Former Manufactured Gas Plant Site
 Albany, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Part 375 Restricted Use Commercial SCOs	VER-SBI-2 1 08/07/19	VER-SBO-1 1 - 1.5 08/05/193 - 4 08/05/19		VER-SBO-2 2 - 2.5 08/05/19	VER-SBO-3 1 - 1.5 08/05/19	VER-SBO-4 2 - 3 08/05/19	VER-SBO-5 1 - 2 08/06/19	VER-SBO-6 1 - 2 08/05/19	VER-SBO-7 1 - 1.5 08/06/19	VER-SBO-8 1 - 2 08/06/19
Detected PCBs											
Aroclor-1260	--	<0.26	<0.21	NA	<0.23	0.35	<0.22	<0.26	<0.26	<0.28	<0.24
Detected VOCs											
2-Butanone	500	<0.056	NA	NA	<0.022	NA	<0.033	<0.023 *	<0.035	NA	0.019 J*
Acetone	500	0.067	NA	NA	0.0061 J	NA	0.03 J	<0.023	0.059	NA	0.11
Detected SVOCs											
Acenaphthene	500	0.048 J	NA	NA	<0.19	NA	<0.19	<0.92	<0.19	NA	<1
Acenaphthylene	500	<0.19	NA	NA	<0.19	NA	<0.19	<0.92	0.065 J	NA	<1
Anthracene	500	0.11 J	NA	NA	<0.19	NA	<0.19	<0.92	0.077 J	NA	<1
Benzo(a)anthracene	5.6	0.32	NA	NA	<0.19	NA	0.11 J	0.32 J	0.5	NA	0.88 J
Benzo(a)pyrene	1	0.32	NA	NA	<0.19	NA	0.1 J	0.28 J	0.51	NA	1
Benzo(b)fluoranthene	5.6	0.4	NA	NA	<0.19	NA	0.14 J	0.35 J	0.68	NA	1.3
Benzo(g,h,i)perylene	500	0.29	NA	NA	<0.19	NA	0.08 J	0.19 J	0.47	NA	1.3
Benzo(k)fluoranthene	56	0.19	NA	NA	<0.19	NA	0.036 J	0.18 J	0.23	NA	0.63 J
Bis(2-ethylhexyl) phthalate	--	<0.19	NA	NA	<0.19	NA	0.091 J	<0.92	<0.19	NA	<1
Carbazole	--	0.045 J	NA	NA	<0.19	NA	<0.19	<0.92	<0.19	NA	<1
Chrysene	56	0.32	NA	NA	<0.19	NA	0.11 J	0.24 J	0.54	NA	0.74 J
Di-n-octyl phthalate	--	<0.19	NA	NA	<0.19	NA	0.28	<0.92	0.53	NA	<1
Fluoranthene	500	0.62	NA	NA	<0.19	NA	0.24	0.47 J	0.84	NA	1.6
Fluorene	500	0.037 J	NA	NA	<0.19	NA	<0.19	<0.92	0.025 J	NA	<1
Indeno(1,2,3-cd)pyrene	5.6	0.24	NA	NA	<0.19	NA	0.062 J	0.15 J	0.33	NA	0.84 J
Naphthalene	500	<0.19	NA	NA	0.08 J	NA	<0.19	<0.92	<0.19	NA	<1
Phenanthrene	500	0.48	NA	NA	<0.19	NA	0.15 J	<0.92	0.49	NA	0.48 J
Pyrene	500	0.67	NA	NA	<0.19	NA	0.22	0.43 J	1.1	NA	1.9
Detected Inorganics											
Aluminum	--	6,110	NA	NA	7,990	NA	9,360	11,900	8,710	NA	9,970
Arsenic	16	9.00	NA	NA	12.5	NA	6.80	7.70	5.00	NA	11.3
Barium	400	75.8	NA	NA	130	NA	71.8	71.5	110	NA	114
Beryllium	590	0.640	NA	NA	0.500	NA	0.450	0.600	0.450	NA	0.570
Cadmium	9.3	0.0790 J	NA	NA	1.20	NA	0.0880 J	0.0400 J	0.360	NA	0.280
Calcium	--	6,500 B	NA	NA	13,500 B	NA	24,500 B	30,700 B	5,340 B	NA	46,700 B
Chromium	--	29.6	NA	NA	16.3	NA	14.4	19.4	14.2	NA	17.6
Cobalt	--	8.80	NA	NA	9.00	NA	8.30	10.5	6.50	NA	9.30
Copper	270	94.8	NA	NA	132	NA	31.0	36.2	66.2	NA	57.9
Cyanide	27	<1.10 F1	NA	NA	<1.00	NA	<1.10	<1.10	<1.10	NA	0.800 J
Iron	--	19,400 B	NA	NA	23,700	NA	21,600	24,100	17,000	NA	21,900

Table 2
Soil Analytical Results for Detected PCBs, VOCs, SVOCs, and Inorganics (ppm)

National Grid
Versaire Building Drainage Improvements
North Albany Former Manufactured Gas Plant Site
Albany, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Part 375 Restricted Use Commercial SCOs	VER-SBI-2 1 08/07/19	VER-SBO-1 1 - 1.5 08/05/19 3 - 4 08/05/19		VER-SBO-2 2 - 2.5 08/05/19	VER-SBO-3 1 - 1.5 08/05/19	VER-SBO-4 2 - 3 08/05/19	VER-SBO-5 1 - 2 08/06/19	VER-SBO-6 1 - 2 08/05/19	VER-SBO-7 1 - 1.5 08/06/19	VER-SBO-8 1 - 2 08/06/19
Lead	1,000	324	NA	NA	913	NA	4,230	63.1	162	NA	307
Magnesium	--	1,210	NA	NA	2,550	NA	5,600	7,530	3,110	NA	6,160
Manganese	10,000	384	NA	NA	487 B	NA	451 B	530 B	321 B	NA	412 B
Mercury	--	0.820	NA	NA	5.70	NA	0.490	0.150	2.20	NA	0.820
Nickel	310	25.6	NA	NA	20.6	NA	18.2	27.0	19.4	NA	21.2
Potassium	--	1,040	NA	NA	1,500	NA	1,820	2,330	1,440	NA	1,930
Selenium	1,500	1.30 J	NA	NA	1.40 J	NA	<4.20	<4.20	0.830 J	NA	<4.90
Sodium	--	312	NA	NA	1,820	NA	867	1,110	1,190	NA	252
Vanadium	--	25.6	NA	NA	27.0	NA	19.4	22.1	17.6	NA	22.2
Zinc	10,000	87.9	NA	NA	660	NA	80.8	75.5	128	NA	152

Notes:

1. Samples were collected by Arcadis of New York, Inc. (Arcadis) on the dates indicated.
2. Samples were analyzed by Eurofins TestAmerica of Amherst, New York for the following:
 - Polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082A
 - Target Compound List (TCL) volatile organic compounds (VOCs) using USEPA SW-846 Method 8260C
 - TCL semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 8270D
 - Target Analyte List (TAL) inorganic constituents using USEPA SW-846 Method 6010C, 7471B, and 9012B
3. Concentrations reported milligrams per kilogram (mg/kg), which is equivalent to parts per million (ppm).
4. Only those constituents detected in one or more samples are summarized.
5. Data qualifiers are defined as follows:
 - < - Constituent not detected at a concentration above the reported detection limit.
 - B - Compound was found in the blank and sample.
 - J - Indicates that the associated numerical value is an estimated concentration.
 - * - Isotope dilution analyte is outside acceptance limits.
6. 6 NYCRR Part 375 Soil Cleanup Objectives (SCOs) are from Title 6 of the Official Compilation of Codes, Rules, and Regulations of the State of New York (6 NYCRR) Part 375-6.8(b), effective December 14, 2006.
7. Shading indicates that the result exceeds the 6 NYCRR Part 375 Commercial Use SCO.
8. NA = not analyzed.
9. -- = No 6 NYCRR Part 375 SCO listed.
10. Results have not been validated.

Table 3
Soil Analytical Results for Detected PFAS (ppt)

National Grid
Versaire Building Drainage Improvements
North Albany Former Manufactured Gas Plant Site
Albany, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Emerging Contaminant Guidance Value	VER-SBO-1 3 - 4 08/05/19	VER-SBO-5 1 - 2 08/06/19
Detected PFAS			
6:2 FTS	- -	<2,100	6,400 F1
Perfluorobutanesulfonic acid (PFBS)	- -	<210	63 J
Perfluorobutanoic acid (PFBA)	- -	100 J	32 J
Perfluorohexanesulfonic acid (PFHxS)	- -	50 J	<220

Notes:

1. Samples were collected by Arcadis of New York, Inc. (Arcadis) on the dates indicated.
2. Samples were analyzed by Eurofins TestAmerica of Sacramento, California for poly- and per-fluorinated alkyl substances (PFAS) using modified USEPA Method 537.
3. Concentrations reported nanograms per kilogram (ng/kg), which is equivalent to parts per trillion (ppt).
4. Only those constituents detected in one or more samples are summarized.
5. Data qualifiers are defined as follows:
 - < - Constituent not detected at a concentration above the reported detection limit.
 - F1 - matrix spike or matrix spike duplicate recovery is outside acceptance limits.
 - J - Indicates that the associated numerical value is an estimated concentration.
6. New York State Department of Environmental Conservation (NYSDEC) PFAS guidance values are from the NYSDEC memorandum titled Sampling for 1,4-Dioxane and Per- and Polyfluoroalkyl Substances (PFAS) Under DEC's Part 375 Remedial Programs, dated June 2019.
7. - - = No NYSDEC PFAS guidance value listed.
8. Results have not been validated.

Table 4
Concrete Analytical Results for PCBs (ppm)



National Grid
Versaire Building Drainage Improvements
North Albany Former Manufactured Gas Plant Site
Albany, New York

Location ID:	NYSDEC Part 375	VER-CONC-1		VER-CONC-2		VER-CONC-3	VER-CONC-5	VER-CONC-6	VER-CONC-7	
Sample Depth(Feet):	Restricted Use	3	9	3	9	3	3	3	3	9
Date Collected:	Commercial SCOs	08/06/19	08/07/19	08/06/19	08/07/19	08/06/19	08/07/19	08/07/19	08/07/19	08/07/19
Detected PCBs										
Aroclor-1260	- -	<0.22	<0.17	<0.18	<0.20	<0.23	<0.18	<0.25	0.12 J	0.094 J
Total PCBs	1	ND	ND	ND	ND	ND	ND	ND	0.12 J	0.094 J

Notes:

1. Samples were collected by Arcadis of New York, Inc. (Arcadis) on the dates indicated.
2. Samples were analyzed by Eurofins TestAmerica of Amherst, New York for Polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082A.
3. Concentrations reported milligrams per kilogram (mg/kg), which is equivalent to parts per million (ppm).
4. Only those constituents detected in one or more samples are summarized.
5. Data qualifiers are defined as follows:
 - < - Constituent not detected at a concentration above the reported detection limit.
 - J - Indicates that the associated numerical value is an estimated concentration.
 - ND - Not detected.
6. 6 NYCRR Part 375 Soil Cleanup Objectives (SCOs) are from Title 6 of the Official Compilation of Codes, Rules, and Regulations of the State of New York (6 NYCRR) Part 375-6.8(a) and (b), effective December 14,2006.
7. - - = No 6 NYCRR Part 375 SCO listed.
8. Results have not been validated.

Table 5
Concrete Analytical Results for RCRA Waste Characteristics

National Grid
Versaire Building Drainage Improvements
North Albany Former Manufactured Gas Plant Site
Albany, New York

Location ID:	NYSDEC Part 371	VER-COMP-C1	VER-COMP-C3	VER-CONC-3-DISCRETE	VER-CONC-7-DISCRETE
Date Collected:	TCLP Criteria	08/06/19	08/07/19	08/07/19	08/07/19
TCLP VOCs (ppm)					
1,1-Dichloroethene	0.7	<0.010	<0.010	<0.010	<0.010
1,2-Dichloroethane	0.5	<0.010	<0.010	<0.010	<0.010
2-Butanone	200	<0.050	<0.050	<0.050	<0.050
Benzene	0.5	<0.010	<0.010	<0.010	<0.010
Carbon Tetrachloride	0.5	<0.010	<0.010	<0.010	<0.010
Chlorobenzene	100	<0.010	<0.010	<0.010	<0.010
Chloroform	6	<0.010	<0.010	<0.010	<0.010
Tetrachloroethene	0.7	<0.010	<0.010	<0.010	<0.010
Trichloroethene	0.5	<0.010	<0.010	<0.010	<0.010
Vinyl Chloride	0.2	<0.010	<0.010	<0.010	<0.010
TCLP SVOCs (ppm)					
1,4-Dichlorobenzene	7.5	<0.040	<0.040	<0.040	<0.040
2,4,5-Trichlorophenol	400	<0.020	<0.020	<0.020	<0.020
2,4,6-Trichlorophenol	2	<0.020	<0.020	<0.020	<0.020
2,4-Dinitrotoluene	0.13	<0.020	<0.020	<0.020	<0.020
2-Methylphenol	200	<0.020	<0.020	<0.020	<0.020
3-Methylphenol	200	<0.040	<0.040	<0.040	<0.040
4-Methylphenol	200	<0.040	<0.040	<0.040	<0.040
Hexachlorobenzene	0.13	<0.020	<0.020	<0.020	<0.020
Hexachlorobutadiene	0.5	<0.020	<0.020	<0.020	<0.020
Hexachloroethane	3	<0.020	<0.020	<0.020	<0.020
Nitrobenzene	2	<0.020	<0.020	<0.020	<0.020
Pentachlorophenol	100	<0.040	<0.040	<0.040	<0.040
Pyridine, TCLP	5	<0.10	<0.10	<0.10	<0.10
TCLP Metals (ppm)					
Arsenic	5	0.0120 J	0.00580 J	0.00930 J	0.00650 J
Barium	100	0.190 J	0.250 J	0.390 J	0.150 J
Cadmium	1	<0.00200	<0.00200	<0.00200	<0.00200
Chromium	5	0.0280	0.0170 J	0.0580	0.0330
Lead	5	<0.0200	<0.0200	<0.0200	<0.0200
Mercury	0.2	<0.000200	<0.000200	<0.000200	<0.000200
Selenium	1	<0.0250	<0.0250	<0.0250	<0.0250
Silver	5	<0.00600	<0.00600	<0.00600	<0.00600
Miscellaneous					
Flashpoint (deg F)	--	>176	>176	>176	>176
Cyanide Reactivity (ppm)	--	<10	<10	<10	<10
Sulfide Reactivity (ppm)	--	<10	<10	<10	<10

Table 5
Concrete Analytical Results for RCRA Waste Characteristics

National Grid
Versaire Building Drainage Improvements
North Albany Former Manufactured Gas Plant Site
Albany, New York

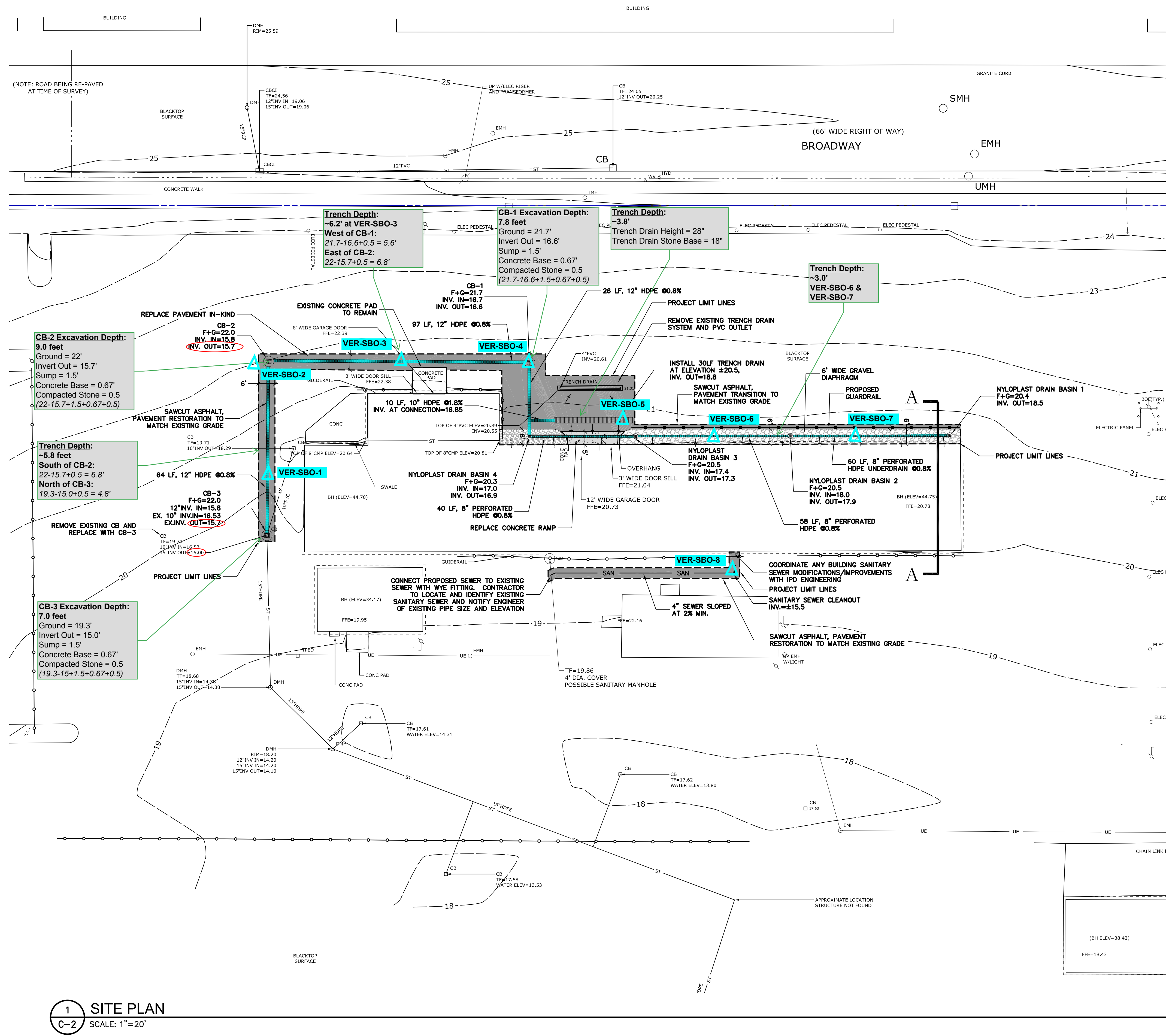
Notes:

1. Samples were collected by Arcadis of New York, Inc. (Arcadis) on the dates indicated.
2. Samples were analyzed by Eurofins TestAmerica of Amherst, New York for the following:
 - Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) SW-846 Method 1311/8260C
 - TCLP semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 1311/8270D
 - TCLP metals using USEPA SW-846 Method 1311/7470A/6010C
 - Ignitability (flashpoint) using USEPA Method 1010A
 - Reactivity (reactive sulfide and reactive cyanide) using USEPA Methods 9012/9034.
3. Data are reported in the following units:
 - TCLP VOCs, TCLP SVOCs, and TCLP metals: in milligrams per liter (mg/L), which is equivalent to parts per million (ppm).
 - Cyanide and sulfide reactivity: milligrams per kilogram, which is equivalent to ppm.
 - Ignitability (flashpoint): degrees Fahrenheit.
5. Data qualifiers are defined as follows:
 - < - Constituent not detected at a concentration above the reported detection limit.
 - J - Indicates that the associated numerical value is an estimated concentration.
6. 6 NYCRR Part 371 Soil Criteria are from Title 6 of the Official Compilation of Codes, Rules, and Regulations of the State of New York (6 NYCRR) Part 371-3(e) Table 1, current through June 30, 2019.
7. - - = No 6 NYCRR Part 371 criteria listed.
8. Results have not been validated.

FIGURES



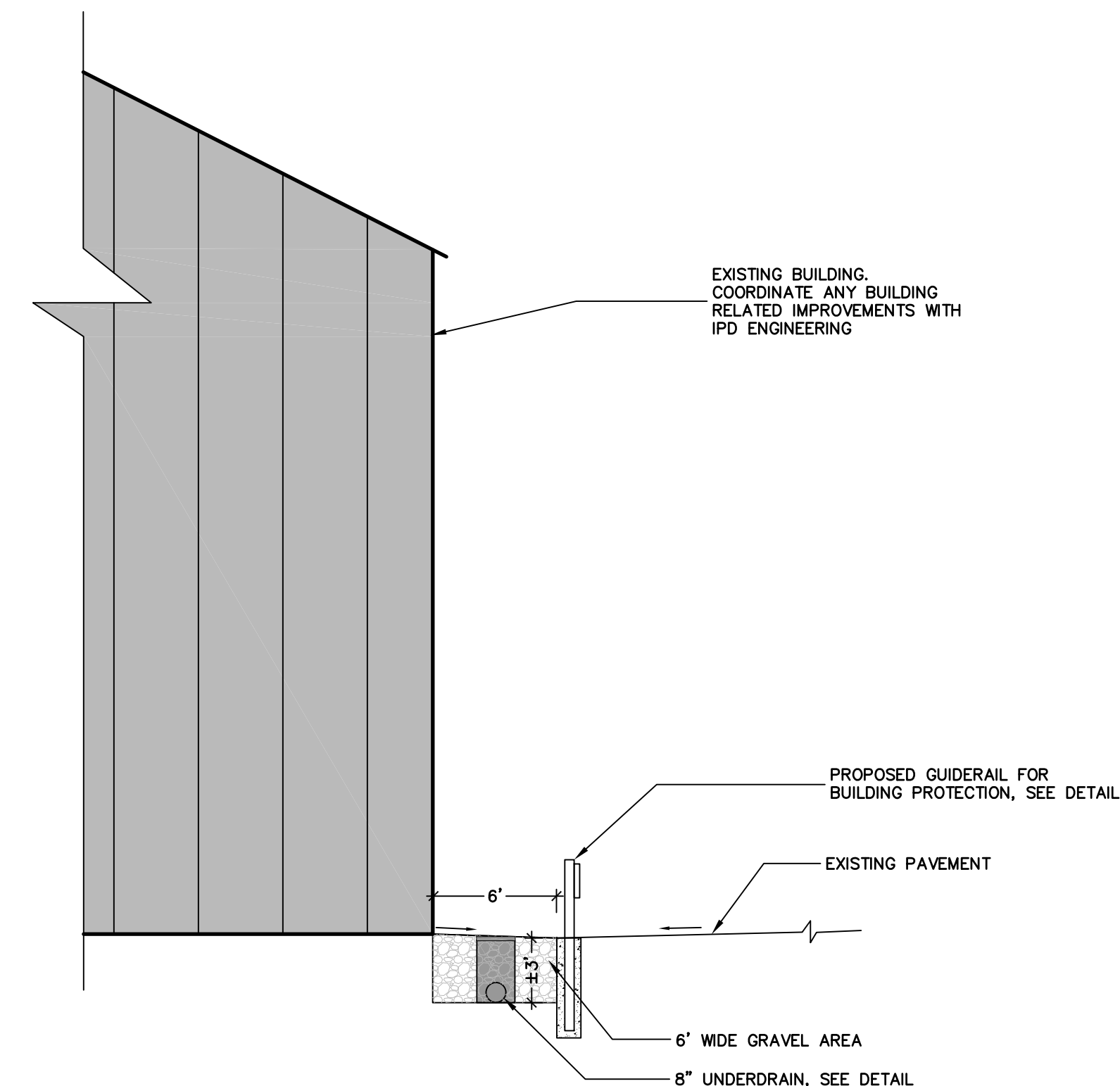
**Figure 1 -
Proposed Drainage Improvements & Sampling
Locations Outside Versaire Building**



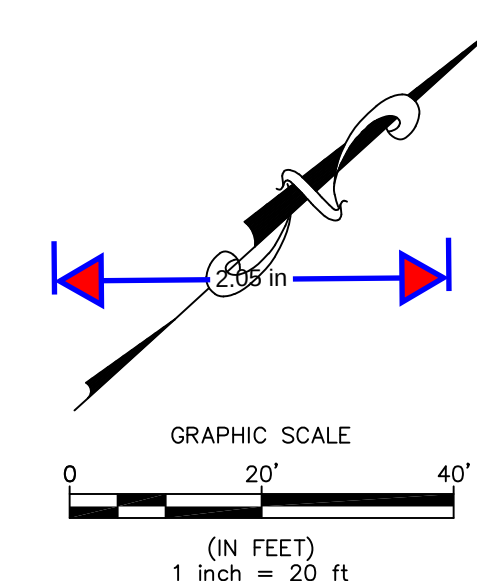
LEGEND: PROPOSED

- | | | |
|---|-------|----------------------------------|
|  | — — — | PROPOSED STORM PIPE |
|  | — — — | PROPOSED TRENCH DRAIN |
|  | — — — | PROJECT LIMIT LINE |
|  | — — — | PROPOSED GUARD RAIL |
|  | — — — | PROPOSED CATCH BASIN |
|  | — — — | PROPOSED NYLOPLAST DRAIN BASIN |
|  | — — — | PROPOSED ASPHALT PAVEMENT |
|  | — — — | PROPOSED CONCRETE |
|  | — — — | PROPOSED GRAVEL |
|  | — — — | PROPOSED FINISHED SPOT ELEVATION |

SOIL BORING OUTSIDE VERSAIRE BUILDING



2 SECTION A-A
C-2 SCALE: NTS



PROJECT TITLE: **NATIONAL GRID OUTBUILDING
1125 BROADWAY**

CITY OF ALBANY ALBANY COUNTY, NY

PREPARED FOR: **IPD ENGINEERING**

**ONE WEBSTER'S LANDING
SYRACUSE, NY 13202**

LAYOUT, UTILITY AND GRADING PLAN

[illegible]

PREPARED BY:

NAPIERALA
CONSULTING
PROFESSIONAL ENGINEER, P.C.
SITE • DESIGN • ENGINEERING

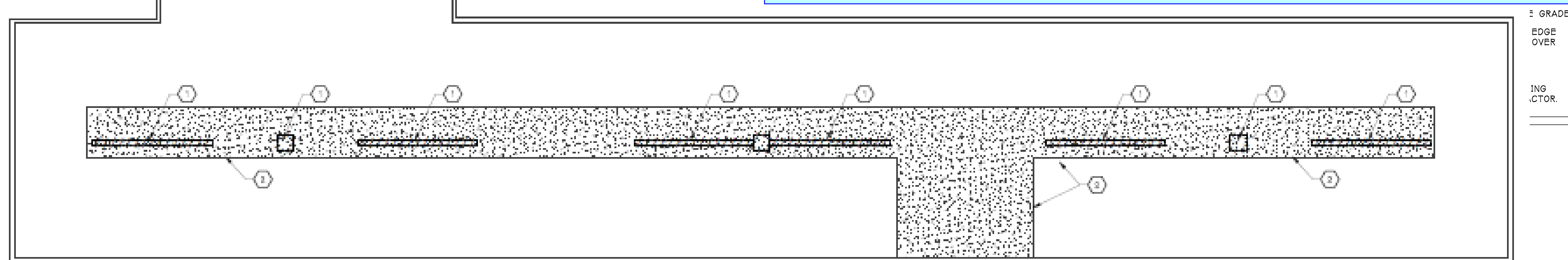
110 FAYETTE STREET
MANHATTAN, NEW YORK 13104

email: MNAP@NAPCON.COM
PH: (315) 882-5580 FAX: (315) 682-5544

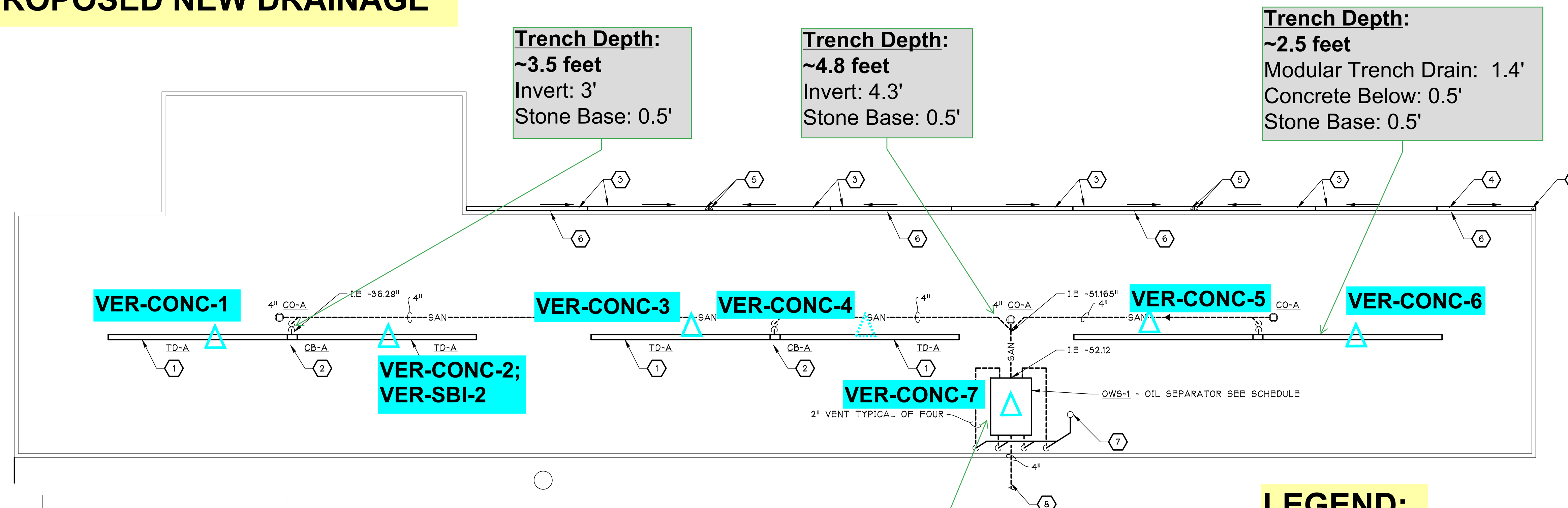
SHEET	C-2	PROJECT NO.	
		18-1734	
		DATE	22 FEB 2109
		SCALE	AS NOTED

EXISTING DRAINAGE

**Figure 2 -
Proposed Drainage Improvements & Sampling
Locations Inside Versaire Building**



PROPOSED NEW DRAINAGE



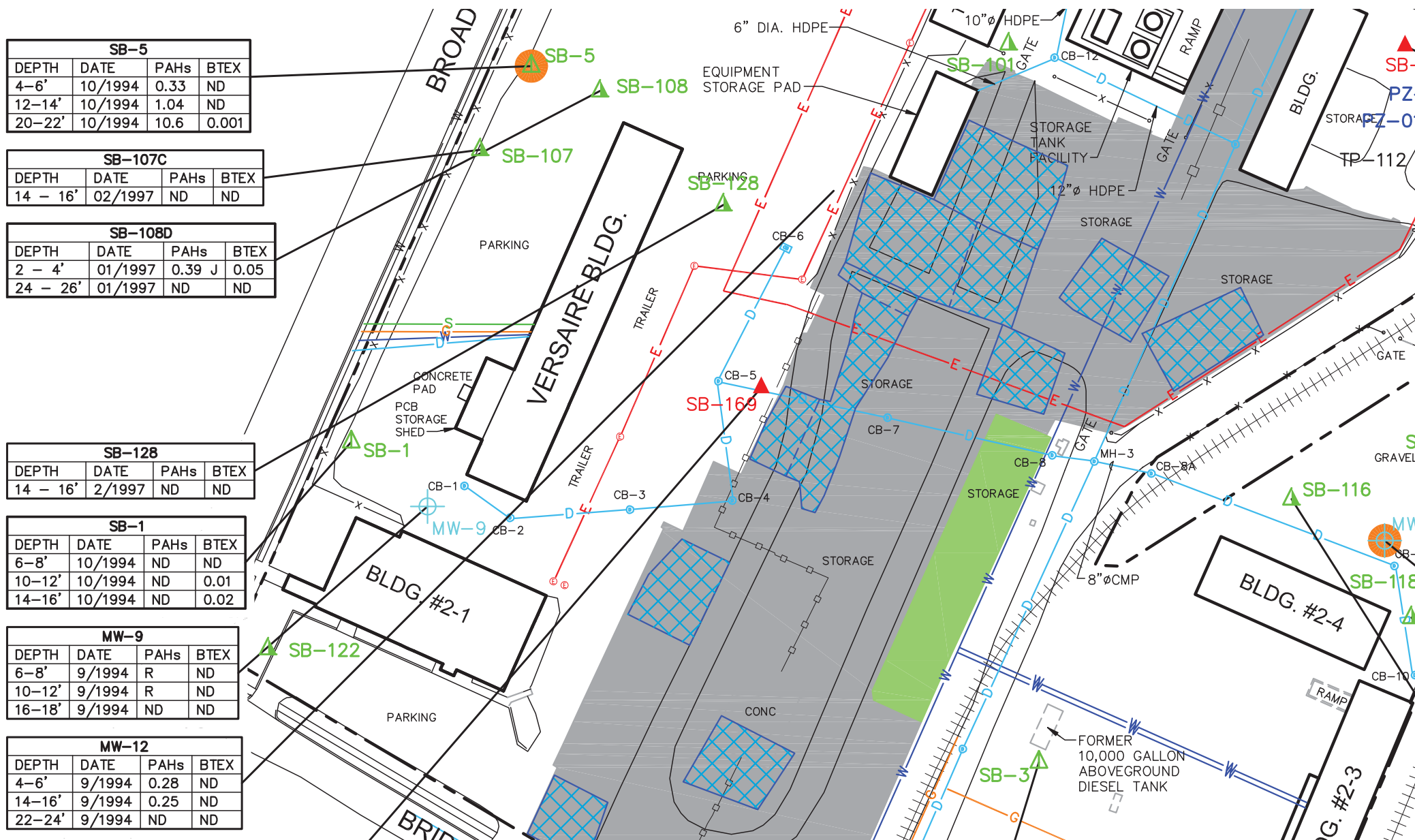
LEGEND:

△ CONCRETE CORE AND SHALLOW SOIL BORING INSIDE VERSAIRE BUILDING (concrete core samples designated by prefix "VER-CONC" and sub-slab soil samples designated by prefix "VER-SBI")

Oil-Water Separator
Excavation Depth:
~6.5 feet
Structure height: 5.5'
Stone base: 1.0'

[illegible]

Figure 3 - Existing Sampling Locations Near Versaire Building



Notes:

Results are in parts per million.
Orange dot = NAPL encountered below 17 feet deep

ATTACHMENT 1

Soil Boring Logs



Date Start/Finish: 8/5/19	Northing: NA	Well/Boring ID: VER-SBO-1
Drilling Company: Cascade Drilling	Easting: NA	Client: National Grid
Driller's Name: B. Plusky/A. Flavin	Casing Elevation: NA	Location:
Drilling Method: Vac-Truck/Hand Auger	Surface Elevation: NA	Versaire Building Drainage Improvements
Sampling Method: Hand Auger	Borehole Depth: 6.5 feet bgs	National Grid North Albany Former MGP
Rig Type: NA	Descriptions By: Kati Liloia	Albany, New York

Depth (feet bgs)	Elevation (feet AMSL)	Sample Run Number	Sample Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-1	NA	NA			ASPHALT.	Backfilled to grade with native material and patched at the surface with asphalt.
		2	1-2	NA	2.1			CRUSHED STONE.	
		3	2-3	NA	NA			Tarp/membrane at 1 bgs. Fine SAND, some coarse Gravel, loose.	
		4	3-4	NA	0.0			GLASS Shards and GRAVEL. Limited recovery.	
		5	4-5	NA	0.0			Fine SAND, some coarse Gravel, loose, slightly moist.	
-5	-5	6	5-6	NA	0.0			CLAY, plastic, some coarse Sand and Gravel, slightly moist.	
		7	6-6.5	NA	0.0			End of boring at 6.5' bgs.	
-10	-10								
-15	-15								

 ARCADIS Design & Consultancy for natural and built assets	Remarks: bgs = below ground surface; NA = not applicable/available; PID = photoionization detector; ppm = parts per million. Analytical samples collected at 1-1.5 bgs for polychlorinated biphenyls and 3-4 bgs for per-and poly-fluoroalkyl substances and 1,4-dioxane.
---	---

Date Start/Finish: 8/5/19	Northing: NA	Well/Boring ID: VER-SBO-2
Drilling Company: Cascade Drilling	Easting: NA	Client: National Grid
Driller's Name: B. Plusky/A. Flavin	Casing Elevation: NA	Location:
Drilling Method: Vac-Truck/Hand Auger	Surface Elevation: NA	Versaire Building Drainage Improvements
Sampling Method: Hand Auger	Borehole Depth: 9.5 feet bgs	National Grid North Albany Former MGP
Rig Type: NA	Descriptions By: Kati Liloia	Albany, New York

Depth (feet bgs)	Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-1	NA	NA			ASPHALT.	Backfilled to grade with native material and patched at the surface with asphalt.
		2	1-2	NA	NA			CRUSHED STONE.	
		3	2-3	NA	0.0			GRAVEL AND BOULDERS. Limited recovery.	
		4	3-4	NA	0.0			Fine to medium SAND, some Brick debris and Gravel, loose.	
		5	4-5	NA	0.0			Some Glass.	
		6	5-6	NA	0.0			Trace Clay from 4 to 5' bgs. Slightly compactable.	
		7	6-7	NA	0.0			Some large Brick pieces and coarse Gravel.	
		8	7-8	NA	0.0			Some Brick debris and Glass, trace Clay from 6 to 8' bgs.	
		9	8-9	NA	0.0			Increasing Clay content.	
		10	9-9.5	NA	0.0			Dense CLAY.	
-10	-10							End of boring at 9.5' bgs.	
-15	-15								

 ARCADIS Design & Consultancy for natural and built assets	Remarks: bgs = below ground surface; NA = not applicable/available; PID = photoionization detector; ppm = parts per million. Analytical sample collected at 2-2.5 bgs for volatile organic compounds, semi-volatile organic compounds, and inorganic constituents.
---	--

Date Start/Finish: 8/5/19 Drilling Company: Cascade Drilling Driller's Name: B. Plusky/A. Flavin Drilling Method: Vac-Truck/Hand Auger Sampling Method: Hand Auger Rig Type: NA	Northing: NA Easting: NA Casing Elevation: NA Surface Elevation: NA Borehole Depth: 7 feet bgs Descriptions By: Kati Liloia	Well/Boring ID: VER-SBO-3 Client: National Grid Location: Versaire Building Drainage Improvements National Grid North Albany Former MGP Albany, New York
--	--	--

Depth (feet bgs)	Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-1	NA	NA			ASPHALT.	Backfilled to grade with native material and patched at the surface with asphalt.
		2	1-2	NA	NA			CRUSHED STONE.	
		3	2-3	NA	0.0			Fine to medium SAND, some Gravel and Brick fragments, loose.	
		4	3-4	NA	0.0			Fine to medium SAND, some Cobble and Brick fragments, little Gravel.	
		5	4-5	NA	0.0				
-5	-5	6	5-6	NA	0.0			Fine to medium SAND, some Gravel and Brick fragments and plastic Clay.	
		7	6-7	NA	0.0			Increasing Clay content.	
								CLAY, plastic, some coarse Sand and Gravel.	
								End of boring at 7' bgs.	
-10	-10								
-15	-15								



Design & Consultancy
 for natural and built assets

Remarks: bgs = below ground surface; NA = not applicable/available; PID = photoionization detector; ppm = parts per million.

 Analytical sample collected at 1-1.5 bgs for polychlorinated biphenyls.

Date Start/Finish: 8/5/19	Northing: NA	Well/Boring ID: VER-SBO-4
Drilling Company: Cascade Drilling	Easting: NA	Client: National Grid
Driller's Name: B. Plusky/A. Flavin	Casing Elevation: NA	Location:
Drilling Method: Vac-Truck/Hand Auger	Surface Elevation: NA	Versaire Building Drainage Improvements
Sampling Method: Hand Auger	Borehole Depth: 8.5 feet bgs	National Grid North Albany Former MGP
Rig Type: NA	Descriptions By: Kati Liloia	Albany, New York

Depth (feet bgs)	Elevation (feet AMSL)	Sample Run Number	Sample Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-1	NA	NA			ASPHALT.	Backfilled to grade with native material and patched at the surface with asphalt.
		2	1-2	NA	NA			CRUSHED STONE.	
		3	2-3	NA	0.0	X		GRAVEL, trace Sand. Limited recovery.	
		4	3-4	NA	0.0			Fine to medium SAND, some Gravel and Brick, loose.	
5	-5	5	4-5	NA	0.0				
		6	5-6	NA	0.0				
		7	6-7	NA	0.0			Fine to medium SAND, some Cobble, trace Brick, loose.	
		8	7-8	NA	0.0			Some Cobble, little Clay.	
		9	8-8.5	NA	0.0			Some Clay, partially loose.	
-10	-10							End of boring at 8.5' bgs.	
-15	-15								

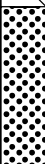
 ARCADIS Design & Consultancy for natural and built assets	Remarks: bgs = below ground surface; NA = not applicable/available; PID = photoionization detector; ppm = parts per million. Analytical sample collected at 2-3 bgs for volatile organic compounds, semi-volatile organic compounds, and inorganic constituents.
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Date Start/Finish: 8/6/19 Drilling Company: Cascade Drilling Driller's Name: B. Plusky/A. Flavin Drilling Method: Vac-Truck/Hand Auger Sampling Method: Hand Auger Rig Type: NA	Northing: NA Easting: NA Casing Elevation: NA Surface Elevation: NA Borehole Depth: 4.5 feet bgs Descriptions By: Kati Liloia	Well/Boring ID: VER-SBO-5 Client: National Grid Location: Versaire Building Drainage Improvements National Grid North Albany Former MGP Albany, New York
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Depth (feet bgs)	Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-1	NA	NA			ASPHALT.	Backfilled to grade with native material and patched at the surface with asphalt.
								CRUSHED STONE.	
		2	1-2	NA	12.9	X		Fine to medium SAND, some Cobble, loose, some odor, greasy feel.	
		3	2-3	NA	0.0			Slightly greasy feel.	
		4	3-4	NA	0.0				
		5	4-4.5	NA	0.0				
-5	-5							End of boring at 4.5' bgs.	
-10	-10								
-15	-15								

 Design & Consultancy for natural and built assets	Remarks: bgs = below ground surface; NA = not applicable/available; PID = photoionization detector; ppm = parts per million.
	Analytical sample collected at 1-2 bgs for volatile organic compounds, semi-volatile organic compounds, inorganic constituents, per-and poly-fluoroalkyl substances, and 1,4-dioxane.

Date Start/Finish: 8/5/19 Drilling Company: Cascade Drilling Driller's Name: B. Plusky/A. Flavin Drilling Method: Vac-Truck/Hand Auger Sampling Method: Hand Auger Rig Type: NA	Northing: NA Easting: NA Casing Elevation: NA Surface Elevation: NA Borehole Depth: 3.5 feet bgs Descriptions By: Kati Liloia	Well/Boring ID: VER-SBO-6 Client: National Grid Location: Versaire Building Drainage Improvements National Grid North Albany Former MGP Albany, New York
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Depth (feet bgs)	Elevation (feet AMSL)	Sample Run Number	Sample Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-1	NA	NA			ASPHALT.	Backfilled to grade with native material and patched at the surface with asphalt.
		2	1-2	NA	0.0			CRUSHED STONE.	
		3	2-3	NA	0.0			Fine to medium SAND, some Gravel, trace Clay.	
		4	3-3.5	NA	0.0			Some Clay.	
-5	-5							End of boring at 3.5' bgs.	
-10	-10								
-15	-15								

 Design & Consultancy for natural and built assets	Remarks: bgs = below ground surface; NA = not applicable/available; PID = photoionization detector; ppm = parts per million.
	Analytical sample collected at 1-2 bgs for volatile organic compounds, semi-volatile organic compounds, and inorganic constituents.

Date Start/Finish: 8/6/19 Drilling Company: Cascade Drilling Driller's Name: B. Plusky/A. Flavin Drilling Method: Vac-Truck/Hand Auger Sampling Method: Hand Auger Rig Type: NA	Northing: NA Easting: NA Casing Elevation: NA Surface Elevation: NA Borehole Depth: 3.5 feet bgs Descriptions By: Kati Liloia	Well/Boring ID: VER-SBO-7 Client: National Grid Location: Versaire Building Drainage Improvements National Grid North Albany Former MGP Albany, New York
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Depth (feet bgs)	Elevation (feet AMSL)	Sample Run Number	Sample Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-1	NA	NA			ASPHALT.	Backfilled to grade with native material and patched at the surface with asphalt.
		2	1-2	NA	0.0			CRUSHED STONE.	
		3	2-3	NA	0.0			Fine to medium SAND, some Gravel and Cobble, trace Clay.	
		4	3-3.5	NA	0.0			No staining.	
-5	-5							End of boring at 3.5' bgs.	
-10	-10								
-15	-15								

 Design & Consultancy for natural and built assets	Remarks: bgs = below ground surface; NA = not applicable/available; PID = photoionization detector; ppm = parts per million.
	Analytical sample collected at 1-1.5 bgs for polychlorinated biphenyls.

Date Start/Finish: 8/6/19 Drilling Company: Cascade Drilling Driller's Name: B. Plusky/A. Flavin Drilling Method: Vac-Truck/Hand Auger Sampling Method: Hand Auger Rig Type: NA	Northing: NA Easting: NA Casing Elevation: NA Surface Elevation: NA Borehole Depth: 5.5 feet bgs Descriptions By: Kati Liloia	Well/Boring ID: VER-SBO-8 Client: National Grid Location: Versaire Building Drainage Improvements National Grid North Albany Former MGP Albany, New York
--	--	--

Depth (feet bgs)	Elevation (feet AMSL)	Sample Run Number	Sample Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-1	NA	NA			ASPHALT.	Backfilled to grade with native material and patched at the surface with asphalt.
		2	1-2	NA	0.0			CRUSHED STONE.	
		3	2-3	NA	0.0			Fine to medium SAND, some Cobble, loose.	
		4	3-4	NA	0.0			Fine to medium SAND, some Cobble and Gravel, trace Brick fragments, loose.	
		5	4-5	NA	0.0				
-5	-5	6	5-5.5	NA	NA				
								End of boring at 5.5' bgs	
-10	-10								
-15	-15								



Design & Consultancy
 for natural and built assets

Remarks:

bgs = below ground surface; NA = not applicable/available; PID = photoionization detector; ppm = parts per million.

Analytical sample collected at 1-2 bgs for volatile organic compounds, semi-volatile organic compounds, and inorganic constituents.

ATTACHMENT 2

Laboratory Analytical Data Reports
(Electronic Attachment)



ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-157207-1

Client Project/Site: National Grid - Albany Service Center

For:

ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Scott Powlin



Authorized for release by:

8/31/2019 12:06:07 PM

Rebecca Jones, Project Management Assistant I
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Designee for

John Schove, Project Manager II
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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Job ID: 480-157207-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-157207-1

Receipt

The samples were received on 8/6/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): VER-SBO-1 (3-4) (480-157207-5).

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-485740 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: VER-SBO-2 (2-2.5) (480-157207-2), VER-SBO-4 (2-3) (480-157207-4) and VER-SBO-6 (1-2) (480-157207-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: VER-SBO-6 (1-2) (480-157207-6). These results have been reported and qualified.

Method(s) 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Benzaldehyde. The laboratory control sample (LCS) associated with preparation batch 480-486399 and analytical batch 480-486943 recovered within acceptable limits for this analyte and has been qualified with an "E" flag. (LCS 480-486399/2-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: All primary data for analytical batch 486385 is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8082A: The continuing calibration verifications (CCV 480-486385/7) and (CCV 480-486385/8) associated with analytical batch 480-486385 recovered above the upper control limit for PCB-1232, PCB-1242 and PCB-1262. The samples associated with these CCVs were non-detect for the affected analytes; therefore, the data have been reported. The following samples are impacted: VER-SBO-1 (1-1.5) (480-157207-1), VER-SBO-2 (2-2.5) (480-157207-2), VER-SBO-3 (1-1.5) (480-157207-3), VER-SBO-4 (2-3) (480-157207-4) and VER-SBO-6 (1-2) (480-157207-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS

Method(s) 537 (modified), EPA 537(Mod): Due to a shortage in the marketplace for 13C3-PFBS, the target analyte PFBS and/or Perfluoropentanesulfonic acid (PFPeS) could not be quantitated against 13C3-PFBS (its labeled variant) as listed in the SOP. PFBS and Perfluoropentanesulfonic acid (PFPeS) was quantitated versus 18O2-PFHxS instead: (ICV 320-316980/10) and (ICV 320-316980/11)

Method(s) 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-8:2 FTS the following sample: VER-SBO-1 (3-4) (480-157207-5). The samples were re-analyzed with concurring results. Quantitation by isotope dilution

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Job ID: 480-157207-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

generally precludes any adverse effect on data quality due to elevated IDA recoveries.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-1 (1-1.5)

Lab Sample ID: 480-157207-1

No Detections.

Client Sample ID: VER-SBO-2 (2-2.5)

Lab Sample ID: 480-157207-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.1	J	22	3.7	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	80	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Aluminum	7990		11.0	4.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	12.5		2.2	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	130		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.50		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.2		0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Calcium	13500	B	55.2	3.6	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.3		0.55	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	9.0		0.55	0.055	mg/Kg	1	☼	6010C	Total/NA
Copper	132		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Iron	23700		11.0	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	913		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	2550		22.1	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	487	B	0.22	0.035	mg/Kg	1	☼	6010C	Total/NA
Nickel	20.6		5.5	0.25	mg/Kg	1	☼	6010C	Total/NA
Potassium	1500		33.1	22.1	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.4	J	4.4	0.44	mg/Kg	1	☼	6010C	Total/NA
Sodium	1820		155	14.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	27.0		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	660		2.2	0.71	mg/Kg	1	☼	6010C	Total/NA
Mercury	5.7		0.23	0.093	mg/Kg	10	☼	7471B	Total/NA

Client Sample ID: VER-SBO-3 (1-1.5)

Lab Sample ID: 480-157207-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	0.35		0.23	0.11	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: VER-SBO-4 (2-3)

Lab Sample ID: 480-157207-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	30	J	33	5.6	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	110	J	190	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	100	J	190	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	140	J	190	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	80	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	36	J	190	24	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	91	J	190	63	ug/Kg	1	☼	8270D	Total/NA
Chrysene	110	J	190	41	ug/Kg	1	☼	8270D	Total/NA
Di-n-octyl phthalate	280		190	22	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	240		190	20	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	62	J	190	23	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	150	J	190	27	ug/Kg	1	☼	8270D	Total/NA
Pyrene	220		190	22	ug/Kg	1	☼	8270D	Total/NA
Aluminum	9360		10.4	4.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	6.8		2.1	0.42	mg/Kg	1	☼	6010C	Total/NA
Barium	71.8		0.52	0.11	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.45		0.21	0.029	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.088	J	0.21	0.031	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-4 (2-3) (Continued)

Lab Sample ID: 480-157207-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Calcium	24500	B	52.2	3.4	mg/Kg	1		✱	6010C	Total/NA
Chromium	14.4		0.52	0.21	mg/Kg	1		✱	6010C	Total/NA
Cobalt	8.3		0.52	0.052	mg/Kg	1		✱	6010C	Total/NA
Copper	31.0		1.0	0.22	mg/Kg	1		✱	6010C	Total/NA
Iron	21600		10.4	3.7	mg/Kg	1		✱	6010C	Total/NA
Lead	4230		1.0	0.25	mg/Kg	1		✱	6010C	Total/NA
Magnesium	5600		20.9	0.97	mg/Kg	1		✱	6010C	Total/NA
Manganese	451	B	0.21	0.033	mg/Kg	1		✱	6010C	Total/NA
Nickel	18.2		5.2	0.24	mg/Kg	1		✱	6010C	Total/NA
Potassium	1820		31.3	20.9	mg/Kg	1		✱	6010C	Total/NA
Sodium	867		146	13.6	mg/Kg	1		✱	6010C	Total/NA
Vanadium	19.4		0.52	0.11	mg/Kg	1		✱	6010C	Total/NA
Zinc	80.8		2.1	0.67	mg/Kg	1		✱	6010C	Total/NA
Mercury	0.49		0.022	0.0090	mg/Kg	1		✱	7471B	Total/NA

Client Sample ID: VER-SBO-1 (3-4)

Lab Sample ID: 480-157207-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.10	J	0.21	0.029	ug/Kg	1		✱	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.050	J	0.21	0.033	ug/Kg	1		✱	537 (modified)	Total/NA

Client Sample ID: VER-SBO-6 (1-2)

Lab Sample ID: 480-157207-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	59		35	5.9	ug/Kg	1		✱	8260C	Total/NA
Acenaphthylene	65	J	190	24	ug/Kg	1		✱	8270D	Total/NA
Anthracene	77	J	190	46	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]anthracene	500		190	19	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]pyrene	510		190	27	ug/Kg	1		✱	8270D	Total/NA
Benzo[b]fluoranthene	680		190	29	ug/Kg	1		✱	8270D	Total/NA
Benzo[g,h,i]perylene	470		190	20	ug/Kg	1		✱	8270D	Total/NA
Benzo[k]fluoranthene	230		190	24	ug/Kg	1		✱	8270D	Total/NA
Chrysene	540		190	41	ug/Kg	1		✱	8270D	Total/NA
Di-n-octyl phthalate	530		190	22	ug/Kg	1		✱	8270D	Total/NA
Fluoranthene	840		190	20	ug/Kg	1		✱	8270D	Total/NA
Fluorene	25	J	190	22	ug/Kg	1		✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	330		190	23	ug/Kg	1		✱	8270D	Total/NA
Phenanthrene	490		190	27	ug/Kg	1		✱	8270D	Total/NA
Pyrene	1100		190	22	ug/Kg	1		✱	8270D	Total/NA
Aluminum	8710		11.3	5.0	mg/Kg	1		✱	6010C	Total/NA
Arsenic	5.0		2.3	0.45	mg/Kg	1		✱	6010C	Total/NA
Barium	110		0.56	0.12	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.45		0.23	0.032	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.36		0.23	0.034	mg/Kg	1		✱	6010C	Total/NA
Calcium	5340	B	56.3	3.7	mg/Kg	1		✱	6010C	Total/NA
Chromium	14.2		0.56	0.23	mg/Kg	1		✱	6010C	Total/NA
Cobalt	6.5		0.56	0.056	mg/Kg	1		✱	6010C	Total/NA
Copper	66.2		1.1	0.24	mg/Kg	1		✱	6010C	Total/NA
Iron	17000		11.3	3.9	mg/Kg	1		✱	6010C	Total/NA
Lead	162		1.1	0.27	mg/Kg	1		✱	6010C	Total/NA
Magnesium	3110		22.5	1.0	mg/Kg	1		✱	6010C	Total/NA
Manganese	321	B	0.23	0.036	mg/Kg	1		✱	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-6 (1-2) (Continued)

Lab Sample ID: 480-157207-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Nickel	19.4		5.6	0.26	mg/Kg	1		✱	6010C	Total/NA
Potassium	1440		33.8	22.5	mg/Kg	1		✱	6010C	Total/NA
Selenium	0.83	J	4.5	0.45	mg/Kg	1		✱	6010C	Total/NA
Sodium	1190		158	14.6	mg/Kg	1		✱	6010C	Total/NA
Vanadium	17.6		0.56	0.12	mg/Kg	1		✱	6010C	Total/NA
Zinc	128		2.3	0.72	mg/Kg	1		✱	6010C	Total/NA
Mercury	2.2		0.10	0.042	mg/Kg	5		✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-1 (1-1.5)

Date Collected: 08/05/19 09:25

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-1

Matrix: Solid

Percent Solids: 90.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.21		0.21	0.042	mg/Kg	☼	08/09/19 15:40	08/12/19 01:56	1
PCB-1221	<0.21		0.21	0.042	mg/Kg	☼	08/09/19 15:40	08/12/19 01:56	1
PCB-1232	<0.21		0.21	0.042	mg/Kg	☼	08/09/19 15:40	08/12/19 01:56	1
PCB-1242	<0.21		0.21	0.042	mg/Kg	☼	08/09/19 15:40	08/12/19 01:56	1
PCB-1248	<0.21		0.21	0.042	mg/Kg	☼	08/09/19 15:40	08/12/19 01:56	1
PCB-1254	<0.21		0.21	0.099	mg/Kg	☼	08/09/19 15:40	08/12/19 01:56	1
PCB-1260	<0.21		0.21	0.099	mg/Kg	☼	08/09/19 15:40	08/12/19 01:56	1
PCB-1262	<0.21		0.21	0.099	mg/Kg	☼	08/09/19 15:40	08/12/19 01:56	1
PCB-1268	<0.21		0.21	0.099	mg/Kg	☼	08/09/19 15:40	08/12/19 01:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	118		60 - 154	08/09/19 15:40	08/12/19 01:56	1
Tetrachloro-m-xylene	98		60 - 154	08/09/19 15:40	08/12/19 01:56	1
DCB Decachlorobiphenyl	119		65 - 174	08/09/19 15:40	08/12/19 01:56	1
DCB Decachlorobiphenyl	116		65 - 174	08/09/19 15:40	08/12/19 01:56	1

Client Sample ID: VER-SBO-2 (2-2.5)

Date Collected: 08/05/19 11:20

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-2

Matrix: Solid

Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<4.4		4.4	0.32	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
1,2-Dichlorobenzene	<4.4		4.4	0.34	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
1,1,2,2-Tetrachloroethane	<4.4		4.4	0.71	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
1,1,2-Trichloroethane	<4.4		4.4	0.57	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<4.4		4.4	1.0	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
1,1-Dichloroethane	<4.4		4.4	0.53	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
1,1-Dichloroethene	<4.4		4.4	0.53	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
1,2,4-Trichlorobenzene	<4.4		4.4	0.27	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
1,2-Dibromo-3-Chloropropane	<4.4		4.4	2.2	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
1,2-Dichloroethane	<4.4		4.4	0.22	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
1,2-Dichloropropane	<4.4		4.4	2.2	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
1,3-Dichlorobenzene	<4.4		4.4	0.22	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
1,4-Dichlorobenzene	<4.4		4.4	0.61	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
2-Butanone (MEK)	<22		22	1.6	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
2-Hexanone	<22		22	2.2	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
4-Methyl-2-pentanone (MIBK)	<22		22	1.4	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Acetone	6.1 J		22	3.7	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Benzene	<4.4		4.4	0.21	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Bromodichloromethane	<4.4		4.4	0.58	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Bromoform	<4.4		4.4	2.2	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Bromomethane	<4.4		4.4	0.39	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Carbon disulfide	<4.4		4.4	2.2	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Carbon tetrachloride	<4.4		4.4	0.42	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Chlorobenzene	<4.4		4.4	0.58	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Dibromochloromethane	<4.4		4.4	0.56	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Chloroethane	<4.4		4.4	0.99	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Chloroform	<4.4		4.4	0.27	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Chloromethane	<4.4		4.4	0.26	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-2 (2-2.5)

Lab Sample ID: 480-157207-2

Date Collected: 08/05/19 11:20

Matrix: Solid

Date Received: 08/06/19 08:00

Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<4.4		4.4	0.56	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
cis-1,3-Dichloropropene	<4.4		4.4	0.63	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Cyclohexane	<4.4		4.4	0.61	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Dichlorodifluoromethane	<4.4		4.4	0.36	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Ethylbenzene	<4.4		4.4	0.30	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
1,2-Dibromoethane	<4.4		4.4	0.56	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Isopropylbenzene	<4.4		4.4	0.66	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Methyl acetate	<22		22	2.6	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Methyl tert-butyl ether	<4.4		4.4	0.43	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Methylcyclohexane	<4.4		4.4	0.66	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Methylene Chloride	<4.4		4.4	2.0	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Styrene	<4.4		4.4	0.22	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Tetrachloroethene	<4.4		4.4	0.59	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Toluene	<4.4		4.4	0.33	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
trans-1,2-Dichloroethene	<4.4		4.4	0.45	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
trans-1,3-Dichloropropene	<4.4		4.4	1.9	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Trichloroethene	<4.4		4.4	0.96	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Trichlorofluoromethane	<4.4		4.4	0.41	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Vinyl chloride	<4.4		4.4	0.53	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1
Xylenes, Total	<8.7		8.7	0.73	ug/Kg	☼	08/06/19 12:00	08/07/19 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		71 - 125	08/06/19 12:00	08/07/19 15:05	1
1,2-Dichloroethane-d4 (Surr)	111		64 - 126	08/06/19 12:00	08/07/19 15:05	1
4-Bromofluorobenzene (Surr)	99		72 - 126	08/06/19 12:00	08/07/19 15:05	1
Dibromofluoromethane (Surr)	109		60 - 140	08/06/19 12:00	08/07/19 15:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	<190		190	28	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
bis (2-chloroisopropyl) ether	<190		190	38	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
2,4,5-Trichlorophenol	<190		190	51	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
2,4,6-Trichlorophenol	<190		190	38	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
2,4-Dichlorophenol	<190		190	20	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
2,4-Dimethylphenol	<190		190	46	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
2,4-Dinitrophenol	<1900		1900	880	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
2,4-Dinitrotoluene	<190		190	39	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
2,6-Dinitrotoluene	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
2-Chloronaphthalene	<190		190	31	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
2-Chlorophenol	<190		190	35	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
2-Methylnaphthalene	<190		190	38	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
2-Methylphenol	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
2-Nitroaniline	<370		370	28	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
2-Nitrophenol	<190		190	54	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
3,3'-Dichlorobenzidine	<370		370	220	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
3-Nitroaniline	<370		370	53	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
4,6-Dinitro-2-methylphenol	<370		370	190	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
4-Bromophenyl phenyl ether	<190		190	27	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
4-Chloro-3-methylphenol	<190		190	47	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
4-Chloroaniline	<190		190	47	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-2 (2-2.5)

Lab Sample ID: 480-157207-2

Date Collected: 08/05/19 11:20

Matrix: Solid

Date Received: 08/06/19 08:00

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<190		190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
4-Methylphenol	<370		370	22	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
4-Nitroaniline	<370		370	100	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
4-Nitrophenol	<370		370	130	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Acenaphthene	<190		190	28	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Acenaphthylene	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Acetophenone	<190		190	26	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Anthracene	<190		190	47	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Atrazine	<190		190	66	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Benzaldehyde	<190		190	150	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Benzo[a]anthracene	<190		190	19	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Benzo[a]pyrene	<190		190	28	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Benzo[b]fluoranthene	<190		190	30	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Benzo[g,h,i]perylene	<190		190	20	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Benzo[k]fluoranthene	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Bis(2-chloroethoxy)methane	<190		190	40	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Bis(2-chloroethyl)ether	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Bis(2-ethylhexyl) phthalate	<190		190	65	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Butyl benzyl phthalate	<190		190	31	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Caprolactam	<190		190	57	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Carbazole	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Chrysene	<190		190	42	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Di-n-butyl phthalate	<190		190	32	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Di-n-octyl phthalate	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Dibenz(a,h)anthracene	<190		190	34	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Dibenzofuran	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Diethyl phthalate	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Dimethyl phthalate	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Fluoranthene	<190		190	20	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Fluorene	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Hexachlorobenzene	<190		190	26	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Hexachlorobutadiene	<190		190	28	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Hexachlorocyclopentadiene	<190		190	26	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Hexachloroethane	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Indeno[1,2,3-cd]pyrene	<190		190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Isophorone	<190		190	40	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
N-Nitrosodi-n-propylamine	<190		190	32	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
N-Nitrosodiphenylamine	<190		190	150	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Naphthalene	80 J		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Nitrobenzene	<190		190	21	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Pentachlorophenol	<370		370	190	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Phenanthrene	<190		190	28	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Phenol	<190		190	29	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1
Pyrene	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		54 - 120	08/12/19 06:31	08/14/19 15:55	1
2-Fluorobiphenyl	95		60 - 120	08/12/19 06:31	08/14/19 15:55	1
2-Fluorophenol (Surr)	82		52 - 120	08/12/19 06:31	08/14/19 15:55	1
Nitrobenzene-d5 (Surr)	87		53 - 120	08/12/19 06:31	08/14/19 15:55	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-2 (2-2.5)

Lab Sample ID: 480-157207-2

Date Collected: 08/05/19 11:20

Matrix: Solid

Date Received: 08/06/19 08:00

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14 (Surr)	117		65 - 121	08/12/19 06:31	08/14/19 15:55	1
Phenol-d5 (Surr)	77		54 - 120	08/12/19 06:31	08/14/19 15:55	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.23		0.23	0.045	mg/Kg	☼	08/09/19 15:40	08/12/19 02:08	1
PCB-1221	<0.23		0.23	0.045	mg/Kg	☼	08/09/19 15:40	08/12/19 02:08	1
PCB-1232	<0.23		0.23	0.045	mg/Kg	☼	08/09/19 15:40	08/12/19 02:08	1
PCB-1242	<0.23		0.23	0.045	mg/Kg	☼	08/09/19 15:40	08/12/19 02:08	1
PCB-1248	<0.23		0.23	0.045	mg/Kg	☼	08/09/19 15:40	08/12/19 02:08	1
PCB-1254	<0.23		0.23	0.11	mg/Kg	☼	08/09/19 15:40	08/12/19 02:08	1
PCB-1260	<0.23		0.23	0.11	mg/Kg	☼	08/09/19 15:40	08/12/19 02:08	1
PCB-1262	<0.23		0.23	0.11	mg/Kg	☼	08/09/19 15:40	08/12/19 02:08	1
PCB-1268	<0.23		0.23	0.11	mg/Kg	☼	08/09/19 15:40	08/12/19 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	120		60 - 154	08/09/19 15:40	08/12/19 02:08	1
Tetrachloro-m-xylene	92		60 - 154	08/09/19 15:40	08/12/19 02:08	1
DCB Decachlorobiphenyl	117		65 - 174	08/09/19 15:40	08/12/19 02:08	1
DCB Decachlorobiphenyl	113		65 - 174	08/09/19 15:40	08/12/19 02:08	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7990		11.0	4.9	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Antimony	<16.6		16.6	0.44	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Arsenic	12.5		2.2	0.44	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Barium	130		0.55	0.12	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Beryllium	0.50		0.22	0.031	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Cadmium	1.2		0.22	0.033	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Calcium	13500	B	55.2	3.6	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Chromium	16.3		0.55	0.22	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Cobalt	9.0		0.55	0.055	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Copper	132		1.1	0.23	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Iron	23700		11.0	3.9	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Lead	913		1.1	0.27	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Magnesium	2550		22.1	1.0	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Manganese	487	B	0.22	0.035	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Nickel	20.6		5.5	0.25	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Potassium	1500		33.1	22.1	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Selenium	1.4	J	4.4	0.44	mg/Kg	☼	08/14/19 09:36	08/15/19 12:18	1
Silver	<0.66		0.66	0.22	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Sodium	1820		155	14.4	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Thallium	<6.6		6.6	0.33	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Vanadium	27.0		0.55	0.12	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1
Zinc	660		2.2	0.71	mg/Kg	☼	08/14/19 09:36	08/14/19 20:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.7		0.23	0.093	mg/Kg	☼	08/15/19 13:11	08/15/19 14:47	10

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-2 (2-2.5)

Date Collected: 08/05/19 11:20

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-2

Matrix: Solid

Percent Solids: 88.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<1.0		1.0	0.50	mg/Kg	☼	08/14/19 14:51	08/15/19 12:31	1

Client Sample ID: VER-SBO-3 (1-1.5)

Date Collected: 08/05/19 13:05

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-3

Matrix: Solid

Percent Solids: 90.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.23		0.23	0.045	mg/Kg	☼	08/09/19 15:40	08/12/19 02:21	1
PCB-1221	<0.23		0.23	0.045	mg/Kg	☼	08/09/19 15:40	08/12/19 02:21	1
PCB-1232	<0.23		0.23	0.045	mg/Kg	☼	08/09/19 15:40	08/12/19 02:21	1
PCB-1242	<0.23		0.23	0.045	mg/Kg	☼	08/09/19 15:40	08/12/19 02:21	1
PCB-1248	<0.23		0.23	0.045	mg/Kg	☼	08/09/19 15:40	08/12/19 02:21	1
PCB-1254	<0.23		0.23	0.11	mg/Kg	☼	08/09/19 15:40	08/12/19 02:21	1
PCB-1260	0.35		0.23	0.11	mg/Kg	☼	08/09/19 15:40	08/12/19 02:21	1
PCB-1262	<0.23		0.23	0.11	mg/Kg	☼	08/09/19 15:40	08/12/19 02:21	1
PCB-1268	<0.23		0.23	0.11	mg/Kg	☼	08/09/19 15:40	08/12/19 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	129		60 - 154	08/09/19 15:40	08/12/19 02:21	1
Tetrachloro-m-xylene	114		60 - 154	08/09/19 15:40	08/12/19 02:21	1
DCB Decachlorobiphenyl	151		65 - 174	08/09/19 15:40	08/12/19 02:21	1
DCB Decachlorobiphenyl	146		65 - 174	08/09/19 15:40	08/12/19 02:21	1

Client Sample ID: VER-SBO-4 (2-3)

Date Collected: 08/05/19 13:50

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-4

Matrix: Solid

Percent Solids: 90.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.7		6.7	0.48	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
1,2-Dichlorobenzene	<6.7		6.7	0.52	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
1,1,2,2-Tetrachloroethane	<6.7		6.7	1.1	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
1,1,2-Trichloroethane	<6.7		6.7	0.86	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<6.7		6.7	1.5	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
1,1-Dichloroethane	<6.7		6.7	0.81	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
1,1-Dichloroethene	<6.7		6.7	0.81	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
1,2,4-Trichlorobenzene	<6.7		6.7	0.40	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
1,2-Dibromo-3-Chloropropane	<6.7		6.7	3.3	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
1,2-Dichloroethane	<6.7		6.7	0.33	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
1,2-Dichloropropane	<6.7		6.7	3.3	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
1,3-Dichlorobenzene	<6.7		6.7	0.34	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
1,4-Dichlorobenzene	<6.7		6.7	0.93	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
2-Butanone (MEK)	<33		33	2.4	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
2-Hexanone	<33		33	3.3	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
4-Methyl-2-pentanone (MIBK)	<33		33	2.2	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Acetone	30 J		33	5.6	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Benzene	<6.7		6.7	0.33	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Bromodichloromethane	<6.7		6.7	0.89	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Bromoform	<6.7		6.7	3.3	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Bromomethane	<6.7		6.7	0.60	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-4 (2-3)

Lab Sample ID: 480-157207-4

Date Collected: 08/05/19 13:50

Matrix: Solid

Date Received: 08/06/19 08:00

Percent Solids: 90.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<6.7		6.7	3.3	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Carbon tetrachloride	<6.7		6.7	0.64	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Chlorobenzene	<6.7		6.7	0.88	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Dibromochloromethane	<6.7		6.7	0.85	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Chloroethane	<6.7		6.7	1.5	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Chloroform	<6.7		6.7	0.41	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Chloromethane	<6.7		6.7	0.40	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
cis-1,2-Dichloroethene	<6.7		6.7	0.85	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
cis-1,3-Dichloropropene	<6.7		6.7	0.96	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Cyclohexane	<6.7		6.7	0.93	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Dichlorodifluoromethane	<6.7		6.7	0.55	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Ethylbenzene	<6.7		6.7	0.46	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
1,2-Dibromoethane	<6.7		6.7	0.85	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Isopropylbenzene	<6.7		6.7	1.0	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Methyl acetate	<33		33	4.0	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Methyl tert-butyl ether	<6.7		6.7	0.65	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Methylcyclohexane	<6.7		6.7	1.0	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Methylene Chloride	<6.7		6.7	3.1	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Styrene	<6.7		6.7	0.33	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Tetrachloroethene	<6.7		6.7	0.89	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Toluene	<6.7		6.7	0.50	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
trans-1,2-Dichloroethene	<6.7		6.7	0.69	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
trans-1,3-Dichloropropene	<6.7		6.7	2.9	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Trichloroethene	<6.7		6.7	1.5	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Trichlorofluoromethane	<6.7		6.7	0.63	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Vinyl chloride	<6.7		6.7	0.81	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1
Xylenes, Total	<13		13	1.1	ug/Kg	☼	08/06/19 12:00	08/07/19 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 125	08/06/19 12:00	08/07/19 15:30	1
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	08/06/19 12:00	08/07/19 15:30	1
4-Bromofluorobenzene (Surr)	101		72 - 126	08/06/19 12:00	08/07/19 15:30	1
Dibromofluoromethane (Surr)	110		60 - 140	08/06/19 12:00	08/07/19 15:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	<190		190	27	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
bis (2-chloroisopropyl) ether	<190		190	37	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
2,4,5-Trichlorophenol	<190		190	50	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
2,4,6-Trichlorophenol	<190		190	37	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
2,4-Dichlorophenol	<190		190	20	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
2,4-Dimethylphenol	<190		190	45	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
2,4-Dinitrophenol	<1800		1800	860	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
2,4-Dinitrotoluene	<190		190	38	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
2,6-Dinitrotoluene	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
2-Chloronaphthalene	<190		190	31	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
2-Chlorophenol	<190		190	34	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
2-Methylnaphthalene	<190		190	37	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
2-Methylphenol	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
2-Nitroaniline	<360		360	27	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-4 (2-3)

Lab Sample ID: 480-157207-4

Date Collected: 08/05/19 13:50

Matrix: Solid

Date Received: 08/06/19 08:00

Percent Solids: 90.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	<190		190	52	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
3,3'-Dichlorobenzidine	<360		360	220	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
3-Nitroaniline	<360		360	51	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
4,6-Dinitro-2-methylphenol	<360		360	190	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
4-Bromophenyl phenyl ether	<190		190	26	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
4-Chloro-3-methylphenol	<190		190	46	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
4-Chloroaniline	<190		190	46	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
4-Chlorophenyl phenyl ether	<190		190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
4-Methylphenol	<360		360	22	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
4-Nitroaniline	<360		360	97	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
4-Nitrophenol	<360		360	130	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Acenaphthene	<190		190	27	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Acenaphthylene	<190		190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Acetophenone	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Anthracene	<190		190	46	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Atrazine	<190		190	64	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Benzaldehyde	<190		190	150	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Benzo[a]anthracene	110	J	190	19	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Benzo[a]pyrene	100	J	190	27	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Benzo[b]fluoranthene	140	J	190	29	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Benzo[g,h,i]perylene	80	J	190	20	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Benzo[k]fluoranthene	36	J	190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Bis(2-chloroethyl)ether	<190		190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Bis(2-ethylhexyl) phthalate	91	J	190	63	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Butyl benzyl phthalate	<190		190	31	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Caprolactam	<190		190	56	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Carbazole	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Chrysene	110	J	190	41	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Di-n-butyl phthalate	<190		190	32	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Di-n-octyl phthalate	280		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Dibenz(a,h)anthracene	<190		190	33	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Dibenzofuran	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Diethyl phthalate	<190		190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Dimethyl phthalate	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Fluoranthene	240		190	20	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Fluorene	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Hexachlorobenzene	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Hexachlorobutadiene	<190		190	27	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Hexachlorocyclopentadiene	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Hexachloroethane	<190		190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Indeno[1,2,3-cd]pyrene	62	J	190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Isophorone	<190		190	39	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
N-Nitrosodi-n-propylamine	<190		190	32	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
N-Nitrosodiphenylamine	<190		190	150	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Naphthalene	<190		190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Nitrobenzene	<190		190	21	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Pentachlorophenol	<360		360	190	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Phenanthrene	150	J	190	27	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-4 (2-3)

Lab Sample ID: 480-157207-4

Date Collected: 08/05/19 13:50

Matrix: Solid

Date Received: 08/06/19 08:00

Percent Solids: 90.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<190		190	28	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Pyrene	220		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		54 - 120				08/12/19 06:31	08/14/19 16:43	1
2-Fluorobiphenyl	96		60 - 120				08/12/19 06:31	08/14/19 16:43	1
2-Fluorophenol (Surr)	80		52 - 120				08/12/19 06:31	08/14/19 16:43	1
Nitrobenzene-d5 (Surr)	77		53 - 120				08/12/19 06:31	08/14/19 16:43	1
p-Terphenyl-d14 (Surr)	103		65 - 121				08/12/19 06:31	08/14/19 16:43	1
Phenol-d5 (Surr)	74		54 - 120				08/12/19 06:31	08/14/19 16:43	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.22		0.22	0.044	mg/Kg	☼	08/09/19 15:40	08/12/19 02:33	1
PCB-1221	<0.22		0.22	0.044	mg/Kg	☼	08/09/19 15:40	08/12/19 02:33	1
PCB-1232	<0.22		0.22	0.044	mg/Kg	☼	08/09/19 15:40	08/12/19 02:33	1
PCB-1242	<0.22		0.22	0.044	mg/Kg	☼	08/09/19 15:40	08/12/19 02:33	1
PCB-1248	<0.22		0.22	0.044	mg/Kg	☼	08/09/19 15:40	08/12/19 02:33	1
PCB-1254	<0.22		0.22	0.10	mg/Kg	☼	08/09/19 15:40	08/12/19 02:33	1
PCB-1260	<0.22		0.22	0.10	mg/Kg	☼	08/09/19 15:40	08/12/19 02:33	1
PCB-1262	<0.22		0.22	0.10	mg/Kg	☼	08/09/19 15:40	08/12/19 02:33	1
PCB-1268	<0.22		0.22	0.10	mg/Kg	☼	08/09/19 15:40	08/12/19 02:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	124		60 - 154				08/09/19 15:40	08/12/19 02:33	1
Tetrachloro-m-xylene	107		60 - 154				08/09/19 15:40	08/12/19 02:33	1
DCB Decachlorobiphenyl	138		65 - 174				08/09/19 15:40	08/12/19 02:33	1
DCB Decachlorobiphenyl	134		65 - 174				08/09/19 15:40	08/12/19 02:33	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9360		10.4	4.6	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Antimony	<15.6		15.6	0.42	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Arsenic	6.8		2.1	0.42	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Barium	71.8		0.52	0.11	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Beryllium	0.45		0.21	0.029	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Cadmium	0.088	J	0.21	0.031	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Calcium	24500	B	52.2	3.4	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Chromium	14.4		0.52	0.21	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Cobalt	8.3		0.52	0.052	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Copper	31.0		1.0	0.22	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Iron	21600		10.4	3.7	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Lead	4230		1.0	0.25	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Magnesium	5600		20.9	0.97	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Manganese	451	B	0.21	0.033	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Nickel	18.2		5.2	0.24	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Potassium	1820		31.3	20.9	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Selenium	<4.2		4.2	0.42	mg/Kg	☼	08/14/19 09:36	08/15/19 12:22	1
Silver	<0.63		0.63	0.21	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Sodium	867		146	13.6	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-4 (2-3)

Date Collected: 08/05/19 13:50

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-4

Matrix: Solid

Percent Solids: 90.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<6.3		6.3	0.31	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Vanadium	19.4		0.52	0.11	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1
Zinc	80.8		2.1	0.67	mg/Kg	☼	08/14/19 09:36	08/14/19 20:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.022	0.0090	mg/Kg	☼	08/15/19 13:11	08/15/19 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<1.1		1.1	0.51	mg/Kg	☼	08/14/19 14:51	08/15/19 12:33	1

Client Sample ID: VER-SBO-1 (3-4)

Date Collected: 08/05/19 09:55

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-5

Matrix: Solid

Percent Solids: 92.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<210		210	59	ug/Kg	☼	08/12/19 06:31	08/14/19 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	88		53 - 120	08/12/19 06:31	08/14/19 17:14	1
p-Terphenyl-d14 (Surr)	118		65 - 121	08/12/19 06:31	08/14/19 17:14	1
Phenol-d5 (Surr)	83		54 - 120	08/12/19 06:31	08/14/19 17:14	1
2-Fluorophenol (Surr)	82		52 - 120	08/12/19 06:31	08/14/19 17:14	1
2,4,6-Tribromophenol (Surr)	80		54 - 120	08/12/19 06:31	08/14/19 17:14	1
2-Fluorobiphenyl	100		60 - 120	08/12/19 06:31	08/14/19 17:14	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.10	J	0.21	0.029	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluoropentanoic acid (PFPeA)	<0.21		0.21	0.081	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluorohexanoic acid (PFHxA)	<0.21		0.21	0.044	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluoroheptanoic acid (PFHpA)	<0.21		0.21	0.030	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluorooctanoic acid (PFOA)	<0.21		0.21	0.090	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluorononanoic acid (PFNA)	<0.21		0.21	0.038	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluorodecanoic acid (PFDA)	<0.21		0.21	0.023	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluoroundecanoic acid (PFUnA)	<0.21		0.21	0.038	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluorododecanoic acid (PFDoA)	<0.21		0.21	0.070	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluorotridecanoic acid (PFTriA)	<0.21		0.21	0.054	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluorotetradecanoic acid (PFTeA)	<0.21		0.21	0.057	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluorobutanesulfonic acid (PFBS)	<0.21		0.21	0.026	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluorohexanesulfonic acid (PFHxS)	0.050	J	0.21	0.033	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.21		0.21	0.037	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		0.52	0.21	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluorodecanesulfonic acid (PFDS)	<0.21		0.21	0.041	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Perfluorooctanesulfonamide (FOSA)	<0.21		0.21	0.086	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.1		2.1	0.41	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-1 (3-4)

Lab Sample ID: 480-157207-5

Date Collected: 08/05/19 09:55

Matrix: Solid

Date Received: 08/06/19 08:00

Percent Solids: 92.1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.1		2.1	0.39	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
6:2 FTS	<2.1		2.1	0.16	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
8:2 FTS	<2.1		2.1	0.26	ug/Kg	☼	08/19/19 12:52	08/22/19 15:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	92		25 - 150				08/19/19 12:52	08/22/19 15:43	1
13C5 PFPeA	96		25 - 150				08/19/19 12:52	08/22/19 15:43	1
13C2 PFHxA	90		25 - 150				08/19/19 12:52	08/22/19 15:43	1
13C4 PFHpA	96		25 - 150				08/19/19 12:52	08/22/19 15:43	1
13C4 PFOA	95		25 - 150				08/19/19 12:52	08/22/19 15:43	1
13C5 PFNA	102		25 - 150				08/19/19 12:52	08/22/19 15:43	1
13C2 PFDA	105		25 - 150				08/19/19 12:52	08/22/19 15:43	1
13C2 PFUnA	105		25 - 150				08/19/19 12:52	08/22/19 15:43	1
13C2 PFDoA	98		25 - 150				08/19/19 12:52	08/22/19 15:43	1
13C2 PFTeDA	95		25 - 150				08/19/19 12:52	08/22/19 15:43	1
18O2 PFHxS	100		25 - 150				08/19/19 12:52	08/22/19 15:43	1
13C4 PFOS	91		25 - 150				08/19/19 12:52	08/22/19 15:43	1
13C8 FOSA	85		25 - 150				08/19/19 12:52	08/22/19 15:43	1
d3-NMeFOSAA	109		25 - 150				08/19/19 12:52	08/22/19 15:43	1
d5-NEtFOSAA	112		25 - 150				08/19/19 12:52	08/22/19 15:43	1
M2-6:2 FTS	145		25 - 150				08/19/19 12:52	08/22/19 15:43	1
M2-8:2 FTS	175 *		25 - 150				08/19/19 12:52	08/22/19 15:43	1

Client Sample ID: VER-SBO-6 (1-2)

Lab Sample ID: 480-157207-6

Date Collected: 08/05/19 14:40

Matrix: Solid

Date Received: 08/06/19 08:00

Percent Solids: 89.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<7.0		7.0	0.51	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
1,2-Dichlorobenzene	<7.0		7.0	0.55	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
1,1,2,2-Tetrachloroethane	<7.0		7.0	1.1	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
1,1,2-Trichloroethane	<7.0		7.0	0.91	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<7.0		7.0	1.6	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
1,1-Dichloroethane	<7.0		7.0	0.85	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
1,1-Dichloroethene	<7.0		7.0	0.85	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
1,2,4-Trichlorobenzene	<7.0		7.0	0.42	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
1,2-Dibromo-3-Chloropropane	<7.0		7.0	3.5	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
1,2-Dichloroethane	<7.0		7.0	0.35	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
1,2-Dichloropropane	<7.0		7.0	3.5	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
1,3-Dichlorobenzene	<7.0		7.0	0.36	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
1,4-Dichlorobenzene	<7.0		7.0	0.98	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
2-Butanone (MEK)	<35		35	2.6	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
2-Hexanone	<35		35	3.5	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
4-Methyl-2-pentanone (MIBK)	<35		35	2.3	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Acetone	59		35	5.9	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Benzene	<7.0		7.0	0.34	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Bromodichloromethane	<7.0		7.0	0.93	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Bromoform	<7.0		7.0	3.5	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Bromomethane	<7.0		7.0	0.63	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-6 (1-2)

Lab Sample ID: 480-157207-6

Date Collected: 08/05/19 14:40

Matrix: Solid

Date Received: 08/06/19 08:00

Percent Solids: 89.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<7.0		7.0	3.5	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Carbon tetrachloride	<7.0		7.0	0.67	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Chlorobenzene	<7.0		7.0	0.92	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Dibromochloromethane	<7.0		7.0	0.89	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Chloroethane	<7.0		7.0	1.6	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Chloroform	<7.0		7.0	0.43	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Chloromethane	<7.0		7.0	0.42	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
cis-1,2-Dichloroethene	<7.0		7.0	0.89	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
cis-1,3-Dichloropropene	<7.0		7.0	1.0	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Cyclohexane	<7.0		7.0	0.98	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Dichlorodifluoromethane	<7.0		7.0	0.58	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Ethylbenzene	<7.0		7.0	0.48	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
1,2-Dibromoethane	<7.0		7.0	0.90	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Isopropylbenzene	<7.0		7.0	1.1	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Methyl acetate	<35		35	4.2	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Methyl tert-butyl ether	<7.0		7.0	0.68	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Methylcyclohexane	<7.0		7.0	1.1	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Methylene Chloride	<7.0		7.0	3.2	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Styrene	<7.0		7.0	0.35	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Tetrachloroethene	<7.0		7.0	0.94	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Toluene	<7.0		7.0	0.53	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
trans-1,2-Dichloroethene	<7.0		7.0	0.72	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
trans-1,3-Dichloropropene	<7.0		7.0	3.1	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Trichloroethene	<7.0		7.0	1.5	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Trichlorofluoromethane	<7.0		7.0	0.66	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Vinyl chloride	<7.0		7.0	0.85	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1
Xylenes, Total	<14		14	1.2	ug/Kg	☼	08/06/19 12:00	08/07/19 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 125	08/06/19 12:00	08/07/19 15:56	1
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	08/06/19 12:00	08/07/19 15:56	1
4-Bromofluorobenzene (Surr)	100		72 - 126	08/06/19 12:00	08/07/19 15:56	1
Dibromofluoromethane (Surr)	106		60 - 140	08/06/19 12:00	08/07/19 15:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	<190		190	27	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
bis (2-chloroisopropyl) ether	<190		190	37	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
2,4,5-Trichlorophenol	<190		190	50	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
2,4,6-Trichlorophenol	<190		190	37	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
2,4-Dichlorophenol	<190		190	20	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
2,4-Dimethylphenol	<190		190	45	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
2,4-Dinitrophenol	<1800		1800	850	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
2,4-Dinitrotoluene	<190		190	38	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
2,6-Dinitrotoluene	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
2-Chloronaphthalene	<190		190	30	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
2-Chlorophenol	<190		190	34	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
2-Methylnaphthalene	<190		190	37	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
2-Methylphenol	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
2-Nitroaniline	<360		360	27	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-6 (1-2)

Lab Sample ID: 480-157207-6

Date Collected: 08/05/19 14:40

Matrix: Solid

Date Received: 08/06/19 08:00

Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	<190		190	52	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
3,3'-Dichlorobenzidine	<360		360	220	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
3-Nitroaniline	<360		360	51	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
4,6-Dinitro-2-methylphenol	<360		360	190	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
4-Bromophenyl phenyl ether	<190		190	26	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
4-Chloro-3-methylphenol	<190		190	46	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
4-Chloroaniline	<190		190	46	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
4-Chlorophenyl phenyl ether	<190		190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
4-Methylphenol	<360		360	22	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
4-Nitroaniline	<360		360	97	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
4-Nitrophenol	<360		360	130	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Acenaphthene	<190		190	27	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Acenaphthylene	65	J	190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Acetophenone	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Anthracene	77	J	190	46	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Atrazine	<190		190	64	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Benzaldehyde	<190		190	150	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Benzo[a]anthracene	500		190	19	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Benzo[a]pyrene	510		190	27	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Benzo[b]fluoranthene	680		190	29	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Benzo[g,h,i]perylene	470		190	20	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Benzo[k]fluoranthene	230		190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Bis(2-chloroethyl)ether	<190		190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Bis(2-ethylhexyl) phthalate	<190		190	63	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Butyl benzyl phthalate	<190		190	30	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Caprolactam	<190		190	56	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Carbazole	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Chrysene	540		190	41	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Di-n-butyl phthalate	<190		190	32	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Di-n-octyl phthalate	530		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Dibenz(a,h)anthracene	<190		190	33	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Dibenzofuran	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Diethyl phthalate	<190		190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Dimethyl phthalate	<190		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Fluoranthene	840		190	20	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Fluorene	25	J	190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Hexachlorobenzene	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Hexachlorobutadiene	<190		190	27	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Hexachlorocyclopentadiene	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Hexachloroethane	<190		190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Indeno[1,2,3-cd]pyrene	330		190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Isophorone	<190		190	39	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
N-Nitrosodi-n-propylamine	<190		190	32	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
N-Nitrosodiphenylamine	<190		190	150	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Naphthalene	<190		190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Nitrobenzene	<190		190	21	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Pentachlorophenol	<360		360	190	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Phenanthrene	490		190	27	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-6 (1-2)

Lab Sample ID: 480-157207-6

Date Collected: 08/05/19 14:40

Matrix: Solid

Date Received: 08/06/19 08:00

Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<190		190	28	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Pyrene	1100		190	22	ug/Kg	☼	08/12/19 06:31	08/14/19 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		54 - 120				08/12/19 06:31	08/14/19 17:38	1
2-Fluorobiphenyl	113		60 - 120				08/12/19 06:31	08/14/19 17:38	1
2-Fluorophenol (Surr)	85		52 - 120				08/12/19 06:31	08/14/19 17:38	1
Nitrobenzene-d5 (Surr)	93		53 - 120				08/12/19 06:31	08/14/19 17:38	1
p-Terphenyl-d14 (Surr)	142	X	65 - 121				08/12/19 06:31	08/14/19 17:38	1
Phenol-d5 (Surr)	85		54 - 120				08/12/19 06:31	08/14/19 17:38	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.26		0.26	0.051	mg/Kg	☼	08/09/19 15:40	08/12/19 02:46	1
PCB-1221	<0.26		0.26	0.051	mg/Kg	☼	08/09/19 15:40	08/12/19 02:46	1
PCB-1232	<0.26		0.26	0.051	mg/Kg	☼	08/09/19 15:40	08/12/19 02:46	1
PCB-1242	<0.26		0.26	0.051	mg/Kg	☼	08/09/19 15:40	08/12/19 02:46	1
PCB-1248	<0.26		0.26	0.051	mg/Kg	☼	08/09/19 15:40	08/12/19 02:46	1
PCB-1254	<0.26		0.26	0.12	mg/Kg	☼	08/09/19 15:40	08/12/19 02:46	1
PCB-1260	<0.26		0.26	0.12	mg/Kg	☼	08/09/19 15:40	08/12/19 02:46	1
PCB-1262	<0.26		0.26	0.12	mg/Kg	☼	08/09/19 15:40	08/12/19 02:46	1
PCB-1268	<0.26		0.26	0.12	mg/Kg	☼	08/09/19 15:40	08/12/19 02:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	146		60 - 154				08/09/19 15:40	08/12/19 02:46	1
Tetrachloro-m-xylene	120		60 - 154				08/09/19 15:40	08/12/19 02:46	1
DCB Decachlorobiphenyl	145		65 - 174				08/09/19 15:40	08/12/19 02:46	1
DCB Decachlorobiphenyl	142		65 - 174				08/09/19 15:40	08/12/19 02:46	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8710		11.3	5.0	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Antimony	<16.9		16.9	0.45	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Arsenic	5.0		2.3	0.45	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Barium	110		0.56	0.12	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Beryllium	0.45		0.23	0.032	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Cadmium	0.36		0.23	0.034	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Calcium	5340	B	56.3	3.7	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Chromium	14.2		0.56	0.23	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Cobalt	6.5		0.56	0.056	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Copper	66.2		1.1	0.24	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Iron	17000		11.3	3.9	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Lead	162		1.1	0.27	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Magnesium	3110		22.5	1.0	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Manganese	321	B	0.23	0.036	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Nickel	19.4		5.6	0.26	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Potassium	1440		33.8	22.5	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Selenium	0.83	J	4.5	0.45	mg/Kg	☼	08/14/19 09:36	08/15/19 12:26	1
Silver	<0.68		0.68	0.23	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Sodium	1190		158	14.6	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-6 (1-2)

Lab Sample ID: 480-157207-6

Date Collected: 08/05/19 14:40

Matrix: Solid

Date Received: 08/06/19 08:00

Percent Solids: 89.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<6.8		6.8	0.34	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Vanadium	17.6		0.56	0.12	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1
Zinc	128		2.3	0.72	mg/Kg	☼	08/14/19 09:36	08/14/19 20:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.2		0.10	0.042	mg/Kg	☼	08/15/19 13:11	08/15/19 14:48	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<1.1		1.1	0.53	mg/Kg	☼	08/14/19 14:51	08/15/19 12:34	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (71-125)	DCA (64-126)	BFB (72-126)	DBFM (60-140)
480-157207-2	VER-SBO-2 (2-2.5)	103	111	99	109
480-157207-4	VER-SBO-4 (2-3)	100	108	101	110
480-157207-6	VER-SBO-6 (1-2)	101	108	100	106
LCS 480-485804/1-A	Lab Control Sample	101	106	103	105
MB 480-485804/2-A	Method Blank	99	105	102	108

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	TPHd14 (65-121)	PHL (54-120)
480-157207-2	VER-SBO-2 (2-2.5)	87	95	82	87	117	77
480-157207-4	VER-SBO-4 (2-3)	77	96	80	77	103	74
480-157207-5	VER-SBO-1 (3-4)	80	100	82	88	118	83
480-157207-6	VER-SBO-6 (1-2)	91	113	85	93	142 X	85
LCS 480-486399/2-A	Lab Control Sample	91	103	76	85	117	72
MB 480-486399/1-A	Method Blank	79	102	80	87	111	76

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-157207-1	VER-SBO-1 (1-1.5)	118	98	119	116
480-157207-2	VER-SBO-2 (2-2.5)	120	92	117	113
480-157207-3	VER-SBO-3 (1-1.5)	129	114	151	146
480-157207-4	VER-SBO-4 (2-3)	124	107	138	134
480-157207-6	VER-SBO-6 (1-2)	146	120	145	142
LCS 480-486323/2-A	Lab Control Sample	148	133	167	165
MB 480-486323/1-A	Method Blank	139	112	138	140

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Isotope Dilution Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	PFHpA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
480-157207-5	VER-SBO-1 (3-4)	92	96	90	96	95	102	105	105
LCS 320-316336/2-A	Lab Control Sample	102	100	99	105	98	100	100	101
LCSD 320-316336/3-A	Lab Control Sample Dup	100	100	95	103	97	98	99	101
MB 320-316336/1-A	Method Blank	97	97	94	102	96	98	97	94

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	-NMeFOS/ (25-150)	-NEtFOS/ (25-150)	M262FTS (25-150)
480-157207-5	VER-SBO-1 (3-4)	98	95	100	91	85	109	112	145
LCS 320-316336/2-A	Lab Control Sample	101	99	116	100	95	93	94	104
LCSD 320-316336/3-A	Lab Control Sample Dup	104	97	110	98	88	93	96	102
MB 320-316336/1-A	Method Blank	100	98	110	96	85	91	96	104

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M282FTS (25-150)
480-157207-5	VER-SBO-1 (3-4)	175 *
LCS 320-316336/2-A	Lab Control Sample	104
LCSD 320-316336/3-A	Lab Control Sample Dup	98
MB 320-316336/1-A	Method Blank	103

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
PFHpA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3-NMeFOSAA = d3-NMeFOSAA
d5-NEtFOSAA = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-485804/2-A

Matrix: Solid

Analysis Batch: 485740

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 485804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0	0.36	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
1,2-Dichlorobenzene	<5.0		5.0	0.39	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.81	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
1,1,2-Trichloroethane	<5.0		5.0	0.65	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0	1.1	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
1,1-Dichloroethane	<5.0		5.0	0.61	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
1,1-Dichloroethene	<5.0		5.0	0.61	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
1,2,4-Trichlorobenzene	<5.0		5.0	0.30	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.5	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
1,2-Dichloroethane	<5.0		5.0	0.25	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
1,2-Dichloropropane	<5.0		5.0	2.5	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
1,3-Dichlorobenzene	<5.0		5.0	0.26	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
1,4-Dichlorobenzene	<5.0		5.0	0.70	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
2-Butanone (MEK)	<25		25	1.8	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
2-Hexanone	<25		25	2.5	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
4-Methyl-2-pentanone (MIBK)	<25		25	1.6	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Acetone	<25		25	4.2	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Benzene	<5.0		5.0	0.25	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Bromodichloromethane	<5.0		5.0	0.67	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Bromoform	<5.0		5.0	2.5	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Bromomethane	<5.0		5.0	0.45	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Carbon disulfide	<5.0		5.0	2.5	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Carbon tetrachloride	<5.0		5.0	0.48	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Chlorobenzene	<5.0		5.0	0.66	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Dibromochloromethane	<5.0		5.0	0.64	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Chloroethane	<5.0		5.0	1.1	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Chloroform	<5.0		5.0	0.31	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Chloromethane	<5.0		5.0	0.30	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
cis-1,2-Dichloroethene	<5.0		5.0	0.64	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
cis-1,3-Dichloropropene	<5.0		5.0	0.72	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Cyclohexane	<5.0		5.0	0.70	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Dichlorodifluoromethane	<5.0		5.0	0.41	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Ethylbenzene	<5.0		5.0	0.35	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
1,2-Dibromoethane	<5.0		5.0	0.64	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Isopropylbenzene	<5.0		5.0	0.75	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Methyl acetate	<25		25	3.0	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Methyl tert-butyl ether	<5.0		5.0	0.49	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Methylcyclohexane	<5.0		5.0	0.76	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Methylene Chloride	<5.0		5.0	2.3	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Styrene	<5.0		5.0	0.25	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Tetrachloroethene	<5.0		5.0	0.67	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Toluene	<5.0		5.0	0.38	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
trans-1,2-Dichloroethene	<5.0		5.0	0.52	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
trans-1,3-Dichloropropene	<5.0		5.0	2.2	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Trichloroethene	<5.0		5.0	1.1	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Trichlorofluoromethane	<5.0		5.0	0.47	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Vinyl chloride	<5.0		5.0	0.61	ug/Kg		08/07/19 09:00	08/07/19 10:54	1
Xylenes, Total	<10		10	0.84	ug/Kg		08/07/19 09:00	08/07/19 10:54	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-485804/2-A

Matrix: Solid

Analysis Batch: 485740

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 485804

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		71 - 125	08/07/19 09:00	08/07/19 10:54	1
1,2-Dichloroethane-d4 (Surr)	105		64 - 126	08/07/19 09:00	08/07/19 10:54	1
4-Bromofluorobenzene (Surr)	102		72 - 126	08/07/19 09:00	08/07/19 10:54	1
Dibromofluoromethane (Surr)	108		60 - 140	08/07/19 09:00	08/07/19 10:54	1

Lab Sample ID: LCS 480-485804/1-A

Matrix: Solid

Analysis Batch: 485740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 485804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	50.0	53.2		ug/Kg		106	77 - 121
1,2-Dichlorobenzene	50.0	48.0		ug/Kg		96	75 - 120
1,1,2,2-Tetrachloroethane	50.0	48.6		ug/Kg		97	80 - 120
1,1,2-Trichloroethane	50.0	49.3		ug/Kg		99	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.9		ug/Kg		108	60 - 140
1,1-Dichloroethane	50.0	52.1		ug/Kg		104	73 - 126
1,1-Dichloroethene	50.0	54.0		ug/Kg		108	59 - 125
1,2,4-Trichlorobenzene	50.0	48.0		ug/Kg		96	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	44.4		ug/Kg		89	63 - 124
1,2-Dichloroethane	50.0	51.7		ug/Kg		103	77 - 122
1,2-Dichloropropane	50.0	50.8		ug/Kg		102	75 - 124
1,3-Dichlorobenzene	50.0	49.4		ug/Kg		99	74 - 120
1,4-Dichlorobenzene	50.0	49.0		ug/Kg		98	73 - 120
2-Butanone (MEK)	250	262		ug/Kg		105	70 - 134
2-Hexanone	250	248		ug/Kg		99	59 - 130
4-Methyl-2-pentanone (MIBK)	250	241		ug/Kg		97	65 - 133
Acetone	250	241		ug/Kg		96	61 - 137
Benzene	50.0	51.1		ug/Kg		102	79 - 127
Bromodichloromethane	50.0	52.5		ug/Kg		105	80 - 122
Bromoform	50.0	55.3		ug/Kg		111	68 - 126
Bromomethane	50.0	51.0		ug/Kg		102	37 - 149
Carbon disulfide	50.0	52.7		ug/Kg		105	64 - 131
Carbon tetrachloride	50.0	54.9		ug/Kg		110	75 - 135
Chlorobenzene	50.0	50.7		ug/Kg		101	76 - 124
Dibromochloromethane	50.0	54.3		ug/Kg		109	76 - 125
Chloroethane	50.0	50.6		ug/Kg		101	69 - 135
Chloroform	50.0	51.6		ug/Kg		103	80 - 120
Chloromethane	50.0	46.5		ug/Kg		93	63 - 127
cis-1,2-Dichloroethene	50.0	52.7		ug/Kg		105	81 - 120
cis-1,3-Dichloropropene	50.0	51.9		ug/Kg		104	80 - 120
Cyclohexane	50.0	49.5		ug/Kg		99	65 - 120
Dichlorodifluoromethane	50.0	45.0		ug/Kg		90	57 - 142
Ethylbenzene	50.0	50.2		ug/Kg		100	80 - 120
1,2-Dibromoethane	50.0	49.9		ug/Kg		100	78 - 120
Isopropylbenzene	50.0	49.1		ug/Kg		98	72 - 120
Methyl acetate	100	110		ug/Kg		110	55 - 136
Methyl tert-butyl ether	50.0	49.1		ug/Kg		98	63 - 125
Methylcyclohexane	50.0	49.1		ug/Kg		98	60 - 140

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-485804/1-A

Matrix: Solid

Analysis Batch: 485740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 485804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	50.4		ug/Kg		101	61 - 127
Styrene	50.0	50.3		ug/Kg		101	80 - 120
Tetrachloroethene	50.0	52.3		ug/Kg		105	74 - 122
Toluene	50.0	49.8		ug/Kg		100	74 - 128
trans-1,2-Dichloroethene	50.0	54.3		ug/Kg		109	78 - 126
Trichloroethene	50.0	51.8		ug/Kg		104	77 - 129
Trichlorofluoromethane	50.0	54.8		ug/Kg		110	65 - 146
Vinyl chloride	50.0	48.2		ug/Kg		96	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		71 - 125
1,2-Dichloroethane-d4 (Surr)	106		64 - 126
4-Bromofluorobenzene (Surr)	103		72 - 126
Dibromofluoromethane (Surr)	105		60 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-486399/1-A

Matrix: Solid

Analysis Batch: 486943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<200		200	54	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Biphenyl	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
bis (2-chloroisopropyl) ether	<170		170	33	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4,5-Trichlorophenol	<170		170	45	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4,6-Trichlorophenol	<170		170	33	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4-Dichlorophenol	<170		170	18	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4-Dimethylphenol	<170		170	40	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4-Dinitrophenol	<1600		1600	770	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4-Dinitrotoluene	<170		170	34	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,6-Dinitrotoluene	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Chloronaphthalene	<170		170	28	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Chlorophenol	<170		170	30	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Methylnaphthalene	<170		170	33	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Methylphenol	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Nitroaniline	<320		320	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Nitrophenol	<170		170	47	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
3,3'-Dichlorobenzidine	<320		320	200	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
3-Nitroaniline	<320		320	46	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4,6-Dinitro-2-methylphenol	<320		320	170	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Bromophenyl phenyl ether	<170		170	24	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Chloro-3-methylphenol	<170		170	41	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Chloroaniline	<170		170	41	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Chlorophenyl phenyl ether	<170		170	21	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Methylphenol	<320		320	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Nitroaniline	<320		320	87	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Nitrophenol	<320		320	120	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Acenaphthene	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-486399/1-A

Matrix: Solid

Analysis Batch: 486943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Acetophenone	<170		170	23	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Anthracene	<170		170	41	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Atrazine	<170		170	58	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzaldehyde	<170		170	130	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[a]anthracene	<170		170	17	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[a]pyrene	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[b]fluoranthene	<170		170	27	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[g,h,i]perylene	<170		170	18	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[k]fluoranthene	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Bis(2-chloroethyl)ether	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Bis(2-ethylhexyl) phthalate	<170		170	57	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Butyl benzyl phthalate	<170		170	28	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Caprolactam	<170		170	50	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Carbazole	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Chrysene	<170		170	37	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Di-n-butyl phthalate	<170		170	28	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Di-n-octyl phthalate	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Dibenz(a,h)anthracene	<170		170	29	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Dibenzofuran	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Diethyl phthalate	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Dimethyl phthalate	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Fluoranthene	<170		170	18	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Fluorene	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Hexachlorobenzene	<170		170	23	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Hexachlorobutadiene	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Hexachlorocyclopentadiene	<170		170	23	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Hexachloroethane	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Indeno[1,2,3-cd]pyrene	<170		170	21	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Isophorone	<170		170	35	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
N-Nitrosodi-n-propylamine	<170		170	28	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
N-Nitrosodiphenylamine	<170		170	140	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Naphthalene	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Nitrobenzene	<170		170	19	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Pentachlorophenol	<320		320	170	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Phenanthrene	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Phenol	<170		170	26	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Pyrene	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		54 - 120	08/12/19 06:31	08/14/19 12:42	1
2-Fluorobiphenyl	102		60 - 120	08/12/19 06:31	08/14/19 12:42	1
2-Fluorophenol (Surr)	80		52 - 120	08/12/19 06:31	08/14/19 12:42	1
Nitrobenzene-d5 (Surr)	87		53 - 120	08/12/19 06:31	08/14/19 12:42	1
p-Terphenyl-d14 (Surr)	111		65 - 121	08/12/19 06:31	08/14/19 12:42	1
Phenol-d5 (Surr)	76		54 - 120	08/12/19 06:31	08/14/19 12:42	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-486399/2-A

Matrix: Solid

Analysis Batch: 486943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1650	912		ug/Kg		55	23 - 120
Biphenyl	1650	1720		ug/Kg		104	59 - 120
bis (2-chloroisopropyl) ether	1650	1130		ug/Kg		69	44 - 120
2,4,5-Trichlorophenol	1650	1700		ug/Kg		103	59 - 126
2,4,6-Trichlorophenol	1650	1910		ug/Kg		116	59 - 123
2,4-Dichlorophenol	1650	1630		ug/Kg		99	61 - 120
2,4-Dimethylphenol	1650	1470		ug/Kg		89	59 - 120
2,4-Dinitrophenol	3300	2310		ug/Kg		70	41 - 146
2,4-Dinitrotoluene	1650	1540		ug/Kg		93	63 - 120
2,6-Dinitrotoluene	1650	1570		ug/Kg		95	66 - 120
2-Chloronaphthalene	1650	1750		ug/Kg		106	57 - 120
2-Chlorophenol	1650	1390		ug/Kg		84	53 - 120
2-Methylnaphthalene	1650	1580		ug/Kg		96	59 - 120
2-Methylphenol	1650	1370		ug/Kg		83	54 - 120
2-Nitroaniline	1650	1470		ug/Kg		89	61 - 120
2-Nitrophenol	1650	1450		ug/Kg		88	56 - 120
3,3'-Dichlorobenzidine	3300	3410		ug/Kg		103	54 - 120
3-Nitroaniline	1650	1420		ug/Kg		86	48 - 120
4,6-Dinitro-2-methylphenol	3300	3300		ug/Kg		100	49 - 122
4-Bromophenyl phenyl ether	1650	1720		ug/Kg		104	58 - 120
4-Chloro-3-methylphenol	1650	1540		ug/Kg		94	61 - 120
4-Chloroaniline	1650	1260		ug/Kg		76	38 - 120
4-Chlorophenyl phenyl ether	1650	1710		ug/Kg		104	63 - 124
4-Methylphenol	1650	1390		ug/Kg		84	55 - 120
4-Nitroaniline	1650	1420		ug/Kg		86	56 - 120
4-Nitrophenol	3300	2720		ug/Kg		82	43 - 147
Acenaphthene	1650	1610		ug/Kg		98	62 - 120
Acenaphthylene	1650	1620		ug/Kg		98	58 - 121
Acetophenone	1650	1380		ug/Kg		83	54 - 120
Anthracene	1650	1720		ug/Kg		104	62 - 120
Atrazine	3300	3490		ug/Kg		106	60 - 127
Benzaldehyde	3300	2830	E	ug/Kg		86	10 - 150
Benzo[a]anthracene	1650	1650		ug/Kg		100	65 - 120
Benzo[a]pyrene	1650	1710		ug/Kg		103	64 - 120
Benzo[b]fluoranthene	1650	1860		ug/Kg		113	64 - 120
Benzo[g,h,i]perylene	1650	1690		ug/Kg		102	45 - 145
Benzo[k]fluoranthene	1650	1840		ug/Kg		111	65 - 120
Bis(2-chloroethoxy)methane	1650	1370		ug/Kg		83	55 - 120
Bis(2-chloroethyl)ether	1650	1360		ug/Kg		83	45 - 120
Bis(2-ethylhexyl) phthalate	1650	1680		ug/Kg		102	61 - 133
Butyl benzyl phthalate	1650	1720		ug/Kg		104	61 - 129
Caprolactam	3300	2980		ug/Kg		90	47 - 120
Carbazole	1650	1600		ug/Kg		97	65 - 120
Chrysene	1650	1760		ug/Kg		107	64 - 120
Di-n-butyl phthalate	1650	1710		ug/Kg		103	58 - 130
Di-n-octyl phthalate	1650	1580		ug/Kg		96	57 - 133
Dibenz(a,h)anthracene	1650	1720		ug/Kg		104	54 - 132
Dibenzofuran	1650	1710		ug/Kg		104	63 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-486399/2-A

Matrix: Solid

Analysis Batch: 486943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diethyl phthalate	1650	1720		ug/Kg		104	66 - 120
Dimethyl phthalate	1650	1660		ug/Kg		100	65 - 124
Fluoranthene	1650	1660		ug/Kg		100	62 - 120
Fluorene	1650	1700		ug/Kg		103	63 - 120
Hexachlorobenzene	1650	1490		ug/Kg		90	60 - 120
Hexachlorobutadiene	1650	1720		ug/Kg		104	45 - 120
Hexachlorocyclopentadiene	1650	1570		ug/Kg		95	47 - 120
Hexachloroethane	1650	1310		ug/Kg		79	41 - 120
Indeno[1,2,3-cd]pyrene	1650	1630		ug/Kg		99	56 - 134
Isophorone	1650	1510		ug/Kg		92	56 - 120
N-Nitrosodi-n-propylamine	1650	1310		ug/Kg		79	52 - 120
Naphthalene	1650	1530		ug/Kg		93	55 - 120
Nitrobenzene	1650	1500		ug/Kg		91	54 - 120
Pentachlorophenol	3300	2770		ug/Kg		84	51 - 120
Phenanthrene	1650	1650		ug/Kg		100	60 - 120
Phenol	1650	1220		ug/Kg		74	53 - 120
Pyrene	1650	1770		ug/Kg		107	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	91		54 - 120
2-Fluorobiphenyl	103		60 - 120
2-Fluorophenol (Surr)	76		52 - 120
Nitrobenzene-d5 (Surr)	85		53 - 120
p-Terphenyl-d14 (Surr)	117		65 - 121
Phenol-d5 (Surr)	72		54 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-486323/1-A

Matrix: Solid

Analysis Batch: 486385

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.22		0.22	0.043	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1221	<0.22		0.22	0.043	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1232	<0.22		0.22	0.043	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1242	<0.22		0.22	0.043	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1248	<0.22		0.22	0.043	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1254	<0.22		0.22	0.10	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1260	<0.22		0.22	0.10	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1262	<0.22		0.22	0.10	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1268	<0.22		0.22	0.10	mg/Kg		08/09/19 15:40	08/11/19 22:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	139		60 - 154	08/09/19 15:40	08/11/19 22:51	1
Tetrachloro-m-xylene	112		60 - 154	08/09/19 15:40	08/11/19 22:51	1
DCB Decachlorobiphenyl	138		65 - 174	08/09/19 15:40	08/11/19 22:51	1
DCB Decachlorobiphenyl	140		65 - 174	08/09/19 15:40	08/11/19 22:51	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-486323/2-A

Matrix: Solid

Analysis Batch: 486385

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.36	3.54		mg/Kg		150	51 - 185
PCB-1260	2.36	3.65		mg/Kg		155	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	148		60 - 154
Tetrachloro-m-xylene	133		60 - 154
DCB Decachlorobiphenyl	167		65 - 174
DCB Decachlorobiphenyl	165		65 - 174

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-316336/1-A

Matrix: Solid

Analysis Batch: 317662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 316336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.20		0.20	0.028	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluoropentanoic acid (PFPeA)	<0.20		0.20	0.077	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluorohexanoic acid (PFHxA)	<0.20		0.20	0.042	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluoroheptanoic acid (PFHpA)	<0.20		0.20	0.029	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluorooctanoic acid (PFOA)	<0.20		0.20	0.086	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluorononanoic acid (PFNA)	<0.20		0.20	0.036	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluorodecanoic acid (PFDA)	<0.20		0.20	0.022	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluoroundecanoic acid (PFUnA)	<0.20		0.20	0.036	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluorododecanoic acid (PFDoA)	<0.20		0.20	0.067	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluorotridecanoic acid (PFTriA)	<0.20		0.20	0.051	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluorotetradecanoic acid (PFTeA)	<0.20		0.20	0.054	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		0.20	0.025	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluorohexanesulfonic acid (PFHxS)	<0.20		0.20	0.031	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.20		0.20	0.035	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		0.50	0.20	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluorodecanesulfonic acid (PFDS)	<0.20		0.20	0.039	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
Perfluorooctanesulfonamide (FOSA)	<0.20		0.20	0.082	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	0.39	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	0.37	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
6:2 FTS	<2.0		2.0	0.15	ug/Kg		08/19/19 12:52	08/22/19 15:19	1
8:2 FTS	<2.0		2.0	0.25	ug/Kg		08/19/19 12:52	08/22/19 15:19	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150	08/19/19 12:52	08/22/19 15:19	1
13C5 PFPeA	97		25 - 150	08/19/19 12:52	08/22/19 15:19	1
13C2 PFHxA	94		25 - 150	08/19/19 12:52	08/22/19 15:19	1
13C4 PFHpA	102		25 - 150	08/19/19 12:52	08/22/19 15:19	1
13C4 PFOA	96		25 - 150	08/19/19 12:52	08/22/19 15:19	1
13C5 PFNA	98		25 - 150	08/19/19 12:52	08/22/19 15:19	1
13C2 PFDA	97		25 - 150	08/19/19 12:52	08/22/19 15:19	1

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QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-316336/1-A

Matrix: Solid

Analysis Batch: 317662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 316336

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	94		25 - 150	08/19/19 12:52	08/22/19 15:19	1
13C2 PFDoA	100		25 - 150	08/19/19 12:52	08/22/19 15:19	1
13C2 PFTeDA	98		25 - 150	08/19/19 12:52	08/22/19 15:19	1
18O2 PFHxS	110		25 - 150	08/19/19 12:52	08/22/19 15:19	1
13C4 PFOS	96		25 - 150	08/19/19 12:52	08/22/19 15:19	1
13C8 FOSA	85		25 - 150	08/19/19 12:52	08/22/19 15:19	1
d3-NMeFOSAA	91		25 - 150	08/19/19 12:52	08/22/19 15:19	1
d5-NEtFOSAA	96		25 - 150	08/19/19 12:52	08/22/19 15:19	1
M2-6:2 FTS	104		25 - 150	08/19/19 12:52	08/22/19 15:19	1
M2-8:2 FTS	103		25 - 150	08/19/19 12:52	08/22/19 15:19	1

Lab Sample ID: LCS 320-316336/2-A

Matrix: Solid

Analysis Batch: 317662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 316336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	2.00	2.19		ug/Kg		110	81 - 133
Perfluoropentanoic acid (PFPeA)	2.00	1.95		ug/Kg		97	79 - 120
Perfluorohexanoic acid (PFHxA)	2.00	1.96		ug/Kg		98	75 - 125
Perfluoroheptanoic acid (PFHpA)	2.00	2.01		ug/Kg		101	76 - 124
Perfluorooctanoic acid (PFOA)	2.00	1.92		ug/Kg		96	76 - 121
Perfluorononanoic acid (PFNA)	2.00	2.09		ug/Kg		105	74 - 126
Perfluorodecanoic acid (PFDA)	2.00	2.01		ug/Kg		100	74 - 124
Perfluoroundecanoic acid (PFUnA)	2.00	1.86		ug/Kg		93	74 - 114
Perfluorododecanoic acid (PFDoA)	2.00	1.97		ug/Kg		99	75 - 123
Perfluorotridecanoic acid (PFTriA)	2.00	1.91		ug/Kg		95	43 - 116
Perfluorotetradecanoic acid (PFTeA)	2.00	1.91		ug/Kg		95	22 - 129
Perfluorobutanesulfonic acid (PFBS)	1.77	1.60		ug/Kg		91	73 - 142
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.57		ug/Kg		86	75 - 121
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	1.98		ug/Kg		104	78 - 146
Perfluorooctanesulfonic acid (PFOS)	1.86	1.86		ug/Kg		100	69 - 131
Perfluorodecanesulfonic acid (PFDS)	1.93	1.98		ug/Kg		103	54 - 113
Perfluorooctanesulfonamide (FOSA)	2.00	2.01		ug/Kg		100	62 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.30		ug/Kg		115	65 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.33		ug/Kg		116	65 - 135
6:2 FTS	1.90	2.00		ug/Kg		105	65 - 135
8:2 FTS	1.92	2.09		ug/Kg		109	65 - 135
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
13C4 PFBA	102		25 - 150				

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-316336/2-A

Matrix: Solid

Analysis Batch: 317662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 316336

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C5 PFPeA	100		25 - 150
13C2 PFHxA	99		25 - 150
13C4 PFHpA	105		25 - 150
13C4 PFOA	98		25 - 150
13C5 PFNA	100		25 - 150
13C2 PFDA	100		25 - 150
13C2 PFUnA	101		25 - 150
13C2 PFDoA	101		25 - 150
13C2 PFTeDA	99		25 - 150
18O2 PFHxS	116		25 - 150
13C4 PFOS	100		25 - 150
13C8 FOSA	95		25 - 150
d3-NMeFOSAA	93		25 - 150
d5-NEtFOSAA	94		25 - 150
M2-6:2 FTS	104		25 - 150
M2-8:2 FTS	104		25 - 150

Lab Sample ID: LCSD 320-316336/3-A

Matrix: Solid

Analysis Batch: 317662

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 316336

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	2.00	2.20		ug/Kg		110	81 - 133	0	30
Perfluoropentanoic acid (PFPeA)	2.00	1.93		ug/Kg		97	79 - 120	1	30
Perfluorohexanoic acid (PFHxA)	2.00	2.06		ug/Kg		103	75 - 125	5	30
Perfluoroheptanoic acid (PFHpA)	2.00	1.99		ug/Kg		99	76 - 124	1	30
Perfluorooctanoic acid (PFOA)	2.00	1.92		ug/Kg		96	76 - 121	0	30
Perfluorononanoic acid (PFNA)	2.00	2.12		ug/Kg		106	74 - 126	1	30
Perfluorodecanoic acid (PFDA)	2.00	2.02		ug/Kg		101	74 - 124	1	30
Perfluoroundecanoic acid (PFUnA)	2.00	1.98		ug/Kg		99	74 - 114	6	30
Perfluorododecanoic acid (PFDoA)	2.00	1.83		ug/Kg		92	75 - 123	7	30
Perfluorotridecanoic acid (PFTriA)	2.00	1.97		ug/Kg		98	43 - 116	3	30
Perfluorotetradecanoic acid (PFTeA)	2.00	2.01		ug/Kg		100	22 - 129	5	30
Perfluorobutanesulfonic acid (PFBS)	1.77	1.68		ug/Kg		95	73 - 142	4	30
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.63		ug/Kg		90	75 - 121	4	30
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	2.01		ug/Kg		106	78 - 146	1	30
Perfluorooctanesulfonic acid (PFOS)	1.86	1.92		ug/Kg		103	69 - 131	3	30
Perfluorodecanesulfonic acid (PFDS)	1.93	1.95		ug/Kg		101	54 - 113	1	30
Perfluorooctanesulfonamide (FOSA)	2.00	2.08		ug/Kg		104	62 - 135	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.30		ug/Kg		115	65 - 135	0	30

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-316336/3-A

Matrix: Solid

Analysis Batch: 317662

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 316336

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-ethylperfluorooctanesulfonami	2.00	2.16		ug/Kg		108	65 - 135	7	30
doacetic acid (NETFOSAA)									
6:2 FTS	1.90	1.99	J	ug/Kg		105	65 - 135	0	30
8:2 FTS	1.92	2.09		ug/Kg		109	65 - 135	0	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	100		25 - 150
13C5 PFPeA	100		25 - 150
13C2 PFHxA	95		25 - 150
13C4 PFHpA	103		25 - 150
13C4 PFOA	97		25 - 150
13C5 PFNA	98		25 - 150
13C2 PFDA	99		25 - 150
13C2 PFUnA	101		25 - 150
13C2 PFDoA	104		25 - 150
13C2 PFTeDA	97		25 - 150
18O2 PFHxS	110		25 - 150
13C4 PFOS	98		25 - 150
13C8 FOSA	88		25 - 150
d3-NMeFOSAA	93		25 - 150
d5-NEtFOSAA	96		25 - 150
M2-6:2 FTS	102		25 - 150
M2-8:2 FTS	98		25 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-486782/1-A

Matrix: Solid

Analysis Batch: 487135

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<9.7		9.7	4.3	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Antimony	<14.6		14.6	0.39	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Arsenic	<1.9		1.9	0.39	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Barium	<0.49		0.49	0.11	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Beryllium	<0.19		0.19	0.027	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Cadmium	<0.19		0.19	0.029	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Calcium	9.49	J	48.5	3.2	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Chromium	<0.49		0.49	0.19	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Cobalt	<0.49		0.49	0.049	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Copper	<0.97		0.97	0.20	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Iron	<9.7		9.7	3.4	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Lead	<0.97		0.97	0.23	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Magnesium	<19.4		19.4	0.90	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Manganese	0.0961	J	0.19	0.031	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Nickel	<4.9		4.9	0.22	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Potassium	<29.1		29.1	19.4	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Silver	<0.58		0.58	0.19	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Sodium	<136		136	12.6	mg/Kg		08/14/19 09:36	08/14/19 19:55	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-486782/1-A

Matrix: Solid

Analysis Batch: 487135

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<5.8		5.8	0.29	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Vanadium	<0.49		0.49	0.11	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Zinc	<1.9		1.9	0.62	mg/Kg		08/14/19 09:36	08/14/19 19:55	1

Lab Sample ID: MB 480-486782/1-A

Matrix: Solid

Analysis Batch: 487420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<3.9		3.9	0.39	mg/Kg		08/14/19 09:36	08/15/19 12:00	1

Lab Sample ID: LCS 480-486782/22-A

Matrix: Solid

Analysis Batch: 487135

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	1990	1909		mg/Kg		96	41 - 160
Antimony	39.9	40.65		mg/Kg		102	25 - 272
Arsenic	39.9	38.24		mg/Kg		96	69 - 131
Barium	39.9	40.23		mg/Kg		101	72 - 127
Beryllium	39.9	39.44		mg/Kg		99	73 - 127
Cadmium	39.9	38.41		mg/Kg		96	73 - 127
Calcium	1990	1929		mg/Kg		97	74 - 126
Chromium	39.9	39.71		mg/Kg		100	68 - 132
Cobalt	39.9	37.18		mg/Kg		93	75 - 125
Copper	39.9	37.97		mg/Kg		95	74 - 126
Iron	1990	1949		mg/Kg		98	31 - 169
Lead	39.9	37.31		mg/Kg		94	70 - 130
Magnesium	1990	1929		mg/Kg		97	64 - 136
Manganese	39.9	38.75		mg/Kg		97	74 - 125
Nickel	39.9	38.73		mg/Kg		97	70 - 130
Potassium	2000	1879		mg/Kg		94	61 - 139
Selenium	39.9	36.74		mg/Kg		92	64 - 137
Silver	9.97	9.90		mg/Kg		99	66 - 135
Sodium	2000	1863		mg/Kg		93	27 - 174
Thallium	39.9	37.36		mg/Kg		94	67 - 132
Vanadium	39.9	39.73		mg/Kg		100	54 - 146
Zinc	39.9	40.15		mg/Kg		101	67 - 133

Lab Sample ID: LCSSRM 480-486782/2-A

Matrix: Solid

Analysis Batch: 487135

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486782

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10100	9110		mg/Kg		90.2	41.6 - 123.8
Antimony	173	53.97		mg/Kg		31.2	10.0 - 134.1
Arsenic	221	180.7		mg/Kg		81.8	63.8 - 119.0

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-486782/2-A

Matrix: Solid

Analysis Batch: 487135

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486782

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	288	247.7		mg/Kg		86.0	70.5 - 117.4
Beryllium	102	85.33		mg/Kg		83.7	71.2 - 118.6
Cadmium	153	120.6		mg/Kg		78.9	68.6 - 115.0
Calcium	5190	4287		mg/Kg		82.6	65.7 - 115.6
Chromium	179	151.9		mg/Kg		84.9	65.4 - 121.2
Cobalt	182	174.9		mg/Kg		96.1	71.4 - 119.2
Copper	113	94.20		mg/Kg		83.4	71.4 - 118.6
Iron	15000	14800		mg/Kg		98.7	35.7 - 160.7
Lead	74.5	75.08		mg/Kg		100.8	67.8 - 130.3
Magnesium	2570	2210		mg/Kg		86.0	55.6 - 124.1
Manganese	348	302.5		mg/Kg		86.9	71.3 - 118.4
Nickel	98.0	91.16		mg/Kg		93.0	63.8 - 118.4
Potassium	2630	2201		mg/Kg		83.7	51.7 - 119.0
Silver	75.5	64.03		mg/Kg		84.8	66.6 - 121.7
Sodium	226	192.5		mg/Kg		85.2	39.2 - 133.2
Thallium	64.7	58.28		mg/Kg		90.1	55.0 - 126.0
Vanadium	62.7	58.32		mg/Kg		93.0	53.3 - 132.4
Zinc	281	241.2		mg/Kg		85.9	65.8 - 122.4

Lab Sample ID: LCSSRM 480-486782/2-A

Matrix: Solid

Analysis Batch: 487420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486782

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	54.4	44.94		mg/Kg		82.6	53.3 - 130.0

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-487239/1-A

Matrix: Solid

Analysis Batch: 487278

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0075	mg/Kg		08/15/19 13:11	08/15/19 14:05	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-487239/2-A ^5

Matrix: Solid

Analysis Batch: 487278

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487239

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	4.85	3.52		mg/Kg	-	72.5	46.0 - 107.0

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-487038/1-A

Matrix: Solid

Analysis Batch: 487241

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487038

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.97		0.97	0.47	mg/Kg	-	08/14/19 14:51	08/15/19 12:28	1

Lab Sample ID: LCSSRM 480-487038/2-A ^10

Matrix: Solid

Analysis Batch: 487241

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487038

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	42.2	12.08		mg/Kg	-	28.6	9.5 - 128.0

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

GC/MS VOA

Analysis Batch: 485740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	8260C	485804
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	8260C	485804
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	8260C	485804
MB 480-485804/2-A	Method Blank	Total/NA	Solid	8260C	485804
LCS 480-485804/1-A	Lab Control Sample	Total/NA	Solid	8260C	485804

Prep Batch: 485804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	5035A_L	
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	5035A_L	
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	5035A_L	
MB 480-485804/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-485804/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 486399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	3550C	
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	3550C	
480-157207-5	VER-SBO-1 (3-4)	Total/NA	Solid	3550C	
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	3550C	
MB 480-486399/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-486399/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 486943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	8270D	486399
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	8270D	486399
480-157207-5	VER-SBO-1 (3-4)	Total/NA	Solid	8270D	486399
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	8270D	486399
MB 480-486399/1-A	Method Blank	Total/NA	Solid	8270D	486399
LCS 480-486399/2-A	Lab Control Sample	Total/NA	Solid	8270D	486399

GC Semi VOA

Prep Batch: 486323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-1	VER-SBO-1 (1-1.5)	Total/NA	Solid	3550C	
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	3550C	
480-157207-3	VER-SBO-3 (1-1.5)	Total/NA	Solid	3550C	
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	3550C	
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	3550C	
MB 480-486323/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-486323/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 486385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-1	VER-SBO-1 (1-1.5)	Total/NA	Solid	8082A	486323
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	8082A	486323
480-157207-3	VER-SBO-3 (1-1.5)	Total/NA	Solid	8082A	486323
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	8082A	486323

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QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

GC Semi VOA (Continued)

Analysis Batch: 486385 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	8082A	486323
MB 480-486323/1-A	Method Blank	Total/NA	Solid	8082A	486323
LCS 480-486323/2-A	Lab Control Sample	Total/NA	Solid	8082A	486323

LCMS

Prep Batch: 316336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-5	VER-SBO-1 (3-4)	Total/NA	Solid	SHAKE	
MB 320-316336/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-316336/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
LCSD 320-316336/3-A	Lab Control Sample Dup	Total/NA	Solid	SHAKE	

Analysis Batch: 317662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-5	VER-SBO-1 (3-4)	Total/NA	Solid	537 (modified)	316336
MB 320-316336/1-A	Method Blank	Total/NA	Solid	537 (modified)	316336
LCS 320-316336/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	316336
LCSD 320-316336/3-A	Lab Control Sample Dup	Total/NA	Solid	537 (modified)	316336

Metals

Prep Batch: 486782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	3050B	
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	3050B	
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	3050B	
MB 480-486782/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 480-486782/22-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 480-486782/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 487135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	6010C	486782
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	6010C	486782
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	6010C	486782
MB 480-486782/1-A	Method Blank	Total/NA	Solid	6010C	486782
LCS 480-486782/22-A	Lab Control Sample	Total/NA	Solid	6010C	486782
LCSSRM 480-486782/2-A	Lab Control Sample	Total/NA	Solid	6010C	486782

Prep Batch: 487239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	7471B	
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	7471B	
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	7471B	
MB 480-487239/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-487239/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 487278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	7471B	487239
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	7471B	487239

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QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Metals (Continued)

Analysis Batch: 487278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	7471B	487239
MB 480-487239/1-A	Method Blank	Total/NA	Solid	7471B	487239
LCSSRM 480-487239/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	487239

Analysis Batch: 487420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	6010C	486782
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	6010C	486782
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	6010C	486782
MB 480-486782/1-A	Method Blank	Total/NA	Solid	6010C	486782
LCSSRM 480-486782/2-A	Lab Control Sample	Total/NA	Solid	6010C	486782

General Chemistry

Analysis Batch: 485696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-1	VER-SBO-1 (1-1.5)	Total/NA	Solid	Moisture	
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	Moisture	
480-157207-3	VER-SBO-3 (1-1.5)	Total/NA	Solid	Moisture	
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	Moisture	
480-157207-5	VER-SBO-1 (3-4)	Total/NA	Solid	Moisture	
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	Moisture	

Prep Batch: 487038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	9012B	
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	9012B	
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	9012B	
MB 480-487038/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-487038/2-A ^1	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 487241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157207-2	VER-SBO-2 (2-2.5)	Total/NA	Solid	9012B	487038
480-157207-4	VER-SBO-4 (2-3)	Total/NA	Solid	9012B	487038
480-157207-6	VER-SBO-6 (1-2)	Total/NA	Solid	9012B	487038
MB 480-487038/1-A	Method Blank	Total/NA	Solid	9012B	487038
LCSSRM 480-487038/2-A ^1	Lab Control Sample	Total/NA	Solid	9012B	487038

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-1 (1-1.5)

Date Collected: 08/05/19 09:25

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	485696	08/06/19 17:31	CMK	TAL BUF

Client Sample ID: VER-SBO-1 (1-1.5)

Date Collected: 08/05/19 09:25

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-1

Matrix: Solid

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			486323	08/09/19 15:40	ATG	TAL BUF
Total/NA	Analysis	8082A		1	486385	08/12/19 01:56	W1T	TAL BUF

Client Sample ID: VER-SBO-2 (2-2.5)

Date Collected: 08/05/19 11:20

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	485696	08/06/19 17:31	CMK	TAL BUF

Client Sample ID: VER-SBO-2 (2-2.5)

Date Collected: 08/05/19 11:20

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-2

Matrix: Solid

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			485804	08/06/19 12:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	485740	08/07/19 15:05	CDC	TAL BUF
Total/NA	Prep	3550C			486399	08/12/19 06:31	SMP	TAL BUF
Total/NA	Analysis	8270D		1	486943	08/14/19 15:55	PJQ	TAL BUF
Total/NA	Prep	3550C			486323	08/09/19 15:40	ATG	TAL BUF
Total/NA	Analysis	8082A		1	486385	08/12/19 02:08	W1T	TAL BUF
Total/NA	Prep	3050B			486782	08/14/19 09:36	NSW	TAL BUF
Total/NA	Analysis	6010C		1	487135	08/14/19 20:03	EMB	TAL BUF
Total/NA	Prep	3050B			486782	08/14/19 09:36	NSW	TAL BUF
Total/NA	Analysis	6010C		1	487420	08/15/19 12:18	EMB	TAL BUF
Total/NA	Prep	7471B			487239	08/15/19 13:11	BMB	TAL BUF
Total/NA	Analysis	7471B		10	487278	08/15/19 14:47	BMB	TAL BUF
Total/NA	Prep	9012B			487038	08/14/19 14:51	ZFM	TAL BUF
Total/NA	Analysis	9012B		1	487241	08/15/19 12:31	MDL	TAL BUF

Client Sample ID: VER-SBO-3 (1-1.5)

Date Collected: 08/05/19 13:05

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	485696	08/06/19 17:31	CMK	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-3 (1-1.5)

Date Collected: 08/05/19 13:05

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-3

Matrix: Solid

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			486323	08/09/19 15:40	ATG	TAL BUF
Total/NA	Analysis	8082A		1	486385	08/12/19 02:21	W1T	TAL BUF

Client Sample ID: VER-SBO-4 (2-3)

Date Collected: 08/05/19 13:50

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	485696	08/06/19 17:31	CMK	TAL BUF

Client Sample ID: VER-SBO-4 (2-3)

Date Collected: 08/05/19 13:50

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-4

Matrix: Solid

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			485804	08/06/19 12:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	485740	08/07/19 15:30	CDC	TAL BUF
Total/NA	Prep	3550C			486399	08/12/19 06:31	SMP	TAL BUF
Total/NA	Analysis	8270D		1	486943	08/14/19 16:43	PJQ	TAL BUF
Total/NA	Prep	3550C			486323	08/09/19 15:40	ATG	TAL BUF
Total/NA	Analysis	8082A		1	486385	08/12/19 02:33	W1T	TAL BUF
Total/NA	Prep	3050B			486782	08/14/19 09:36	NSW	TAL BUF
Total/NA	Analysis	6010C		1	487135	08/14/19 20:07	EMB	TAL BUF
Total/NA	Prep	3050B			486782	08/14/19 09:36	NSW	TAL BUF
Total/NA	Analysis	6010C		1	487420	08/15/19 12:22	EMB	TAL BUF
Total/NA	Prep	7471B			487239	08/15/19 13:11	BMB	TAL BUF
Total/NA	Analysis	7471B		1	487278	08/15/19 14:28	BMB	TAL BUF
Total/NA	Prep	9012B			487038	08/14/19 14:51	ZFM	TAL BUF
Total/NA	Analysis	9012B		1	487241	08/15/19 12:33	MDL	TAL BUF

Client Sample ID: VER-SBO-1 (3-4)

Date Collected: 08/05/19 09:55

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	485696	08/06/19 17:31	CMK	TAL BUF

Client Sample ID: VER-SBO-1 (3-4)

Date Collected: 08/05/19 09:55

Date Received: 08/06/19 08:00

Lab Sample ID: 480-157207-5

Matrix: Solid

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			486399	08/12/19 06:31	SMP	TAL BUF
Total/NA	Analysis	8270D		1	486943	08/14/19 17:14	PJQ	TAL BUF
Total/NA	Prep	SHAKE			316336	08/19/19 12:52	MC	TAL SAC
Total/NA	Analysis	537 (modified)		1	317662	08/22/19 15:43	GMK	TAL SAC

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Client Sample ID: VER-SBO-6 (1-2)

Lab Sample ID: 480-157207-6

Date Collected: 08/05/19 14:40

Matrix: Solid

Date Received: 08/06/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	485696	08/06/19 17:31	CMK	TAL BUF

Client Sample ID: VER-SBO-6 (1-2)

Lab Sample ID: 480-157207-6

Date Collected: 08/05/19 14:40

Matrix: Solid

Date Received: 08/06/19 08:00

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			485804	08/06/19 12:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	485740	08/07/19 15:56	CDC	TAL BUF
Total/NA	Prep	3550C			486399	08/12/19 06:31	SMP	TAL BUF
Total/NA	Analysis	8270D		1	486943	08/14/19 17:38	PJQ	TAL BUF
Total/NA	Prep	3550C			486323	08/09/19 15:40	ATG	TAL BUF
Total/NA	Analysis	8082A		1	486385	08/12/19 02:46	W1T	TAL BUF
Total/NA	Prep	3050B			486782	08/14/19 09:36	NSW	TAL BUF
Total/NA	Analysis	6010C		1	487135	08/14/19 20:10	EMB	TAL BUF
Total/NA	Prep	3050B			486782	08/14/19 09:36	NSW	TAL BUF
Total/NA	Analysis	6010C		1	487420	08/15/19 12:26	EMB	TAL BUF
Total/NA	Prep	7471B			487239	08/15/19 13:11	BMB	TAL BUF
Total/NA	Analysis	7471B		5	487278	08/15/19 14:48	BMB	TAL BUF
Total/NA	Prep	9012B			487038	08/14/19 14:51	ZFM	TAL BUF
Total/NA	Analysis	9012B		1	487241	08/15/19 12:34	MDL	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State Program	17-020	01-20-21
ANAB	Dept. of Defense ELAP	L2468	01-20-21
ANAB	DoD	L2468	01-20-21
ANAB	DOE	L2468.01	01-20-21
ANAB	ISO/IEC 17025	L2468	08-09-21
Arizona	State	AZ0708	08-11-20
Arizona	State Program	AZ0708	08-11-20
Arkansas DEQ	State Program	88-0691	06-17-20
California	State	2897	01-31-20
California	State Program	2897	01-31-20
Colorado	State Program	CA00044	08-31-19
Connecticut	State	PH-0691	06-30-21
Connecticut	State Program	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-20
Florida	NELAP	E87570	06-30-20
Hawaii	State	<cert No.>	01-29-20
Hawaii	State Program	N/A	01-29-20
Illinois	NELAP	200060	03-17-20 *
Illinois	NELAP	200060	03-17-20
Kansas	NELAP	E-10375	10-31-19
Louisiana	NELAP	30612	06-30-20
Maine	State Program	CA0004	04-14-20
Michigan	State	9947	01-29-20
Michigan	State Program	9947	01-31-20
New Hampshire	NELAP	2997	04-20-20
New York	NELAP	11666	04-01-20
Oregon	NELAP	4040	01-29-20
Oregon	NELAP	4040	01-29-20
Pennsylvania	NELAP	68-01272	03-31-20
Pennsylvania	NELAP	68-01272	03-31-20
Texas	NELAP	T104704399	05-31-20
Texas	NELAP	T104704399-19-13	05-31-20
US Fish & Wildlife	Federal	LE148388-0	07-31-20
US Fish & Wildlife	US Federal Programs	58448	07-31-20
USDA	Federal	P330-18-00239	01-17-21
USEPA UCMR	Federal	CA00044	12-31-20
Utah	NELAP	CA00044	02-29-20
Vermont	State Program	VT-4040	04-16-20
Virginia	NELAP	460278	03-14-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Buffalo

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Laboratory: Eurofins TestAmerica, Sacramento (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Virginia	NELAP	460278	03-14-20
Washington	State	C581	05-05-20
Washington	State Program	C581	05-05-20
West Virginia (DW)	State	9930C	12-31-19
West Virginia (DW)	State Program	9930C	12-31-19
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Buffalo

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157207-1

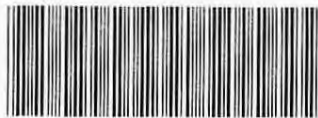
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-157207-1	VER-SBO-1 (1-1.5)	Solid	08/05/19 09:25	08/06/19 08:00	
480-157207-2	VER-SBO-2 (2-2.5)	Solid	08/05/19 11:20	08/06/19 08:00	
480-157207-3	VER-SBO-3 (1-1.5)	Solid	08/05/19 13:05	08/06/19 08:00	
480-157207-4	VER-SBO-4 (2-3)	Solid	08/05/19 13:50	08/06/19 08:00	
480-157207-5	VER-SBO-1 (3-4)	Solid	08/05/19 09:55	08/06/19 08:00	
480-157207-6	VER-SBO-6 (1-2)	Solid	08/05/19 14:40	08/06/19 08:00	

Client Information		Lab PM: Schove, John R		Carter Tracking No(s):		COC No: 480-133538-30078.1	
Client Contact: Mr. Scott Powlin		Phone: 318-222-5130		E-Mail: john.schove@testamericainc.com		Page: Page 1 of 3	
Company: ARCADIS U.S. Inc		Address: One Lincoln Center 110 West Fayette St, Suite 300		City: Syracuse		State: NY 13202	
Phone: 318-222-5130		PO #: Purchase Order not required		WG #:		TAT Requested (days): 5-10	
Email: scott.powlin@arcadis-us.com		Project #: 48020651		SSOW#:		Due Date Requested:	
Project Name: National Grid - Albany Service Center		Site:		Matrix (W=Water, S=Soil, G=Gravel, O=Other)		Sample Type (C=Comp, G=Grab)	
Sample Identification		Sample Date		Sample Time		Preservation Code:	
VER-SBO-1 (1-1.5')		8-5-19		9:25		Solid	
VER-SBO-2 (2-2.5')		8-5-19		11:20		Solid	
VER-SBO-3 (1-1.5')		8-5-19		1:05		Solid	
VER-SBO-4 (2-3')		8-5-19		1:50		Solid	
VER-SBO-1 (3-4')		8-5-19		9:55		Solid	
VER-SBO-6 (1-2')		8-5-19		2:40		Solid	
VER-SBO-7 (1-2')		8-5-19		2:40		Solid	
VER-SBO-8 (1-2')		8-5-19		2:40		Solid	
VER-SBO-9 (1-2')		8-5-19		2:40		Solid	
VER-SBO-10 (1-2')		8-5-19		2:40		Solid	
VER-SBO-11 (1-2')		8-5-19		2:40		Solid	
VER-SBO-12 (1-2')		8-5-19		2:40		Solid	
VER-SBO-13 (1-2')		8-5-19		2:40		Solid	
VER-SBO-14 (1-2')		8-5-19		2:40		Solid	
VER-SBO-15 (1-2')		8-5-19		2:40		Solid	
VER-SBO-16 (1-2')		8-5-19		2:40		Solid	
VER-SBO-17 (1-2')		8-5-19		2:40		Solid	
VER-SBO-18 (1-2')		8-5-19		2:40		Solid	
VER-SBO-19 (1-2')		8-5-19		2:40		Solid	
VER-SBO-20 (1-2')		8-5-19		2:40		Solid	
VER-SBO-21 (1-2')		8-5-19		2:40		Solid	
VER-SBO-22 (1-2')		8-5-19		2:40		Solid	
VER-SBO-23 (1-2')		8-5-19		2:40		Solid	
VER-SBO-24 (1-2')		8-5-19		2:40		Solid	
VER-SBO-25 (1-2')		8-5-19		2:40		Solid	
VER-SBO-26 (1-2')		8-5-19		2:40		Solid	
VER-SBO-27 (1-2')		8-5-19		2:40		Solid	
VER-SBO-28 (1-2')		8-5-19		2:40		Solid	
VER-SBO-29 (1-2')		8-5-19		2:40		Solid	
VER-SBO-30 (1-2')		8-5-19		2:40		Solid	
VER-SBO-31 (1-2')		8-5-19		2:40		Solid	
VER-SBO-32 (1-2')		8-5-19		2:40		Solid	
VER-SBO-33 (1-2')		8-5-19		2:40		Solid	
VER-SBO-34 (1-2')		8-5-19		2:40		Solid	
VER-SBO-35 (1-2')		8-5-19		2:40		Solid	
VER-SBO-36 (1-2')		8-5-19		2:40		Solid	
VER-SBO-37 (1-2')		8-5-19		2:40		Solid	
VER-SBO-38 (1-2')		8-5-19		2:40		Solid	
VER-SBO-39 (1-2')		8-5-19		2:40		Solid	
VER-SBO-40 (1-2')		8-5-19		2:40		Solid	
VER-SBO-41 (1-2')		8-5-19		2:40		Solid	
VER-SBO-42 (1-2')		8-5-19		2:40		Solid	
VER-SBO-43 (1-2')		8-5-19		2:40		Solid	
VER-SBO-44 (1-2')		8-5-19		2:40		Solid	
VER-SBO-45 (1-2')		8-5-19		2:40		Solid	
VER-SBO-46 (1-2')		8-5-19		2:40		Solid	
VER-SBO-47 (1-2')		8-5-19		2:40		Solid	
VER-SBO-48 (1-2')		8-5-19		2:40		Solid	
VER-SBO-49 (1-2')		8-5-19		2:40		Solid	
VER-SBO-50 (1-2')		8-5-19		2:40		Solid	
VER-SBO-51 (1-2')		8-5-19		2:40		Solid	
VER-SBO-52 (1-2')		8-5-19		2:40		Solid	
VER-SBO-53 (1-2')		8-5-19		2:40		Solid	
VER-SBO-54 (1-2')		8-5-19		2:40		Solid	
VER-SBO-55 (1-2')		8-5-19		2:40		Solid	
VER-SBO-56 (1-2')		8-5-19		2:40		Solid	
VER-SBO-57 (1-2')		8-5-19		2:40		Solid	
VER-SBO-58 (1-2')		8-5-19		2:40		Solid	
VER-SBO-59 (1-2')		8-5-19		2:40		Solid	
VER-SBO-60 (1-2')		8-5-19		2:40		Solid	
VER-SBO-61 (1-2')		8-5-19		2:40		Solid	
VER-SBO-62 (1-2')		8-5-19		2:40		Solid	
VER-SBO-63 (1-2')		8-5-19		2:40		Solid	
VER-SBO-64 (1-2')		8-5-19		2:40		Solid	
VER-SBO-65 (1-2')		8-5-19		2:40		Solid	
VER-SBO-66 (1-2')		8-5-19		2:40		Solid	
VER-SBO-67 (1-2')		8-5-19		2:40		Solid	
VER-SBO-68 (1-2')		8-5-19		2:40		Solid	
VER-SBO-69 (1-2')		8-5-19		2:40		Solid	
VER-SBO-70 (1-2')		8-5-19		2:40		Solid	
VER-SBO-71 (1-2')		8-5-19		2:40		Solid	
VER-SBO-72 (1-2')		8-5-19		2:40		Solid	
VER-SBO-73 (1-2')		8-5-19		2:40		Solid	
VER-SBO-74 (1-2')		8-5-19		2:40		Solid	
VER-SBO-75 (1-2')		8-5-19		2:40		Solid	
VER-SBO-76 (1-2')		8-5-19		2:40		Solid	
VER-SBO-77 (1-2')		8-5-19		2:40		Solid	
VER-SBO-78 (1-2')		8-5-19		2:40		Solid	
VER-SBO-79 (1-2')		8-5-19		2:40		Solid	
VER-SBO-80 (1-2')		8-5-19		2:40		Solid	
VER-SBO-81 (1-2')		8-5-19		2:40		Solid	
VER-SBO-82 (1-2')		8-5-19		2:40		Solid	
VER-SBO-83 (1-2')		8-5-19		2:40		Solid	
VER-SBO-84 (1-2')		8-5-19		2:40		Solid	
VER-SBO-85 (1-2')		8-5-19		2:40		Solid	
VER-SBO-86 (1-2')		8-5-19		2:40		Solid	
VER-SBO-87 (1-2')		8-5-19		2:40		Solid	
VER-SBO-88 (1-2')		8-5-19		2:40		Solid	
VER-SBO-89 (1-2')		8-5-19		2:40		Solid	
VER-SBO-90 (1-2')		8-5-19		2:40		Solid	
VER-SBO-91 (1-2')		8-5-19		2:40		Solid	
VER-SBO-92 (1-2')		8-5-19		2:40		Solid	
VER-SBO-93 (1-2')		8-5-19		2:40		Solid	
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VER-SBO-95 (1-2')		8-5-19		2:40		Solid	
VER-SBO-96 (1-2')		8-5-19		2:40		Solid	
VER-SBO-97 (1-2')		8-5-19		2:40		Solid	
VER-SBO-98 (1-2')		8-5-19		2:40		Solid	
VER-SBO-99 (1-2')		8-5-19		2:40		Solid	
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VER-SBO-101 (1-2')		8-5-19		2:40		Solid	
VER-SBO-102 (1-2')		8-5-19		2:40		Solid	
VER-SBO-103 (1-2')		8-5-19		2:40		Solid	
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VER-SBO-107 (1-2')		8-5-19		2:40		Solid	
VER-SBO-108 (1-2')		8-5-19		2:40		Solid	
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VER-SBO-111 (1-2')		8-5-19		2:40		Solid	
VER-SBO-112 (1-2')		8-5-19		2:40		Solid	
VER-SBO-113 (1-2')		8-5-19		2:40		Solid	
VER-SBO-114 (1-2')		8-5-19		2:40		Solid	
VER-SBO-115 (1-2')		8-5-19		2:40		Solid	
VER-SBO-116 (1-2')		8-5-19		2:40		Solid	
VER-SBO-117 (1-2')		8-5-19		2:40		Solid	
VER-SBO-118 (1-2')		8-5-19		2:40		Solid	
VER-SBO-119 (1-2')		8-5-19		2:40		Solid	
VER-SBO-120 (1-2')		8-5-19		2:40		Solid	
VER-SBO-121 (1-2')		8-5-19		2:40		Solid	
VER-SBO-122 (1-2')		8-5-19		2:40		Solid	
VER-SBO-123 (1-2')		8-5-19		2:40		Solid	
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VER-SBO-131 (1-2')		8-5-19		2:40		Solid	
VER-SBO-132 (1-2')		8-5-19		2:40		Solid	
VER-SBO-133 (1-2')		8-5-19		2:40		Solid	
VER-SBO-134 (1-2')		8-5-19		2:40		Solid	
VER-SBO-135 (1-2')		8-5-19		2:40		Solid	
VER-SBO-136 (1-2')		8-5-19		2:40		Solid	
VER-SBO-137 (1-2')		8-5-19		2:40		Solid	
VER-SBO-138 (1-2')		8-5-19		2:40		Solid	
VER-SBO-139 (1-2')		8-5-19		2:40		Solid	
VER-SBO-140 (1-2')		8-5-19		2:40		Solid	
VER-SBO-141 (1-2')		8-5-19		2:40		Solid	
VER-SBO-142 (1-2')		8-5-19		2:40		Solid	
VER-SBO-143 (1-2')		8-5-19		2:40		Solid	
VER-SBO-144 (1-2')		8-5-19		2:40		Solid	
VER-SBO-145 (1-2')		8-5-19		2:40		Solid	
VER-SBO-146 (1-2')		8-5-19		2:40		Solid	
VER-SBO-147 (1-2')		8-5-19		2:40		Solid	
VER-SBO-148 (1-2')		8-5-19		2:40		Solid	
VER-SBO-149 (1-2')		8-5-19		2:40		Solid	
VER-SBO-150 (1-2')		8-5-19		2:40		Solid	
VER-SBO-151 (1-2')		8-5-19		2:40		Solid	
VER-SBO-152 (1-2')		8-5-19		2:40		Solid	
VER-SBO-153 (1-2')		8-5-19		2:40		Solid	
VER-SBO-154 (1-2')		8-5-19		2:40		Solid	
VER-SBO-155 (1-2')		8-5-19		2:40		Solid	
VER-SBO-156 (1-2')		8-5-19		2:40		Solid	
VER-SBO-157 (1-2')		8-5-19		2:40		Solid	
VER-SBO-158 (1-2')		8-5-19		2:40		Solid	
VER-SBO-159 (1-2')		8-5-19		2:40		Solid	
VER-SBO-160 (1-2')		8-5-19		2:40		Solid	
VER-SBO-161 (1-2')		8-5-19		2:40		Solid	
VER-SBO-162 (1-2')		8-5-19		2:40		Solid	
VER-SBO-163 (1-2')		8-5-19		2:40		Solid	
VER-SBO-164 (1-2')		8-5-19		2:40		Solid	
VER-SBO-165 (1-2')		8-5-19		2:40		Solid	
VER-SBO-166 (1-2')		8-5-19		2:40		Solid	
VER-SBO-167 (1-2')		8-5-19		2:40		Solid	
VER-SBO-168 (1-2')		8-5-19		2:40		Solid	
VER-SBO-169 (1-2')		8-5-19		2:40		Solid	
VER-SBO-170 (1-2')		8-5-19		2:40		Solid	
VER-SBO-171 (1-2')		8-5-19		2:40		Solid	
VER-SBO-172 (1-2')		8-5-19		2:40		Solid	
VER-SBO-173 (1-2')		8-5-19		2:40		Solid	
VER-SBO-174 (1-2')		8-5-19		2:40		Solid	
VER-SBO-175 (1-2')		8-5-19		2:40		Solid	
VER-SBO-176 (1-2')		8-5-19		2:40		Solid	
VER-SBO-177 (1-2')		8-5-19		2:40		Solid	
VER-SBO-178 (1-2')		8-5-19		2:40		Solid	
VER-SBO-179 (1-2')		8-5-19		2:40		Solid	
VER-SBO-180 (1-2')		8-5-19		2:40			



Environment Testing
TestAmerica

Sacramento
Sample Receiving Notes



480-157207 Field Sheet

Tracking #: 1034 8839 5960

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSE / OnTrac / Goldstreak / USPS / Other

Job:

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Notes:

Therm. ID: IR stem Corr. Factor: -

Ice ☒ Wet ☒ Gel ☐ Other ☐

Cooler Custody Seal: 1131037

Sample Custody Seal: -

Cooler ID: -

Temp Observed: 0.2°C Corrected: 0.2°C

From: Temp Blank ☒ Sample ☐

NCM Filed: Yes ☐ No ☐

	Yes	No	NA
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☒
Alkalinity has no headspace?	☐	☐	☒
CoC is complete w/o discrepancies?	☒	☐	☐
Samples received within holding time?	☒	☐	☐
Sample preservatives verified?	☐	☐	☒
Cooler compromised/tampered with?	☐	☒	☐
Samples compromised/tampered with?	☐	☒	☐
Samples w/o discrepancies?	☒	☐	☐
Sample containers have legible labels?	☒	☐	☐
Containers are not broken or leaking?	☒	☐	☐
Sample date/times are provided.	☒	☐	☐
Appropriate containers are used?	☒	☐	☐
Sample bottles are completely filled?	☒	☐	☐
Zero headspace?*	☐	☐	☒
Multiphasic samples are not present?	☒	☐	☐
Sample temp OK?	☒	☐	☐
Sample out of temp?	☐	☒	☐

Initials: MAN Date: 8/6/19

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-157207-1

Login Number: 157207

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	FROZEN 8/6/19 1200
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-157207-1

Login Number: 157207

List Number: 2

Creator: Thompson, Sarah W

List Source: Eurofins TestAmerica, Sacramento

List Creation: 08/08/19 11:37 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1131037
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-157265-1

Client Project/Site: National Grid - Albany Service Center

For:

ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Scott Powlin



Authorized for release by:

9/3/2019 6:12:20 PM

Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838
john.schove@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Job ID: 480-157265-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-157265-1

Receipt

The samples were received on 8/7/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

Method(s) 8260C: Due to the co-elution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) associated with batch preparation batch 480-485964 and analytical batch 480-485955. The following samples are impacted: VER-SBO-5 (1-2) (480-157265-2) and VER-SBO-8 (1-2) (480-157265-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to color and appearance: VER-SBO-5 (1-2) (480-157265-2) and VER-SBO-8 (1-2) (480-157265-3). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Benzaldehyde. The laboratory control sample (LCS) associated with preparation batch 480-486399 and analytical batch 480-486943 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.(LCS 480-486399/2-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: The percent difference in a multi-component continuing verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8082A: All primary data for analytical batch 486385 is reported from the ZB-5 column.

Method(s) 8082A: The continuing calibration verifications (CCV 480-486385/7) and (CCV 480-486385/8) associated with analytical batch 480-486385 recovered above the upper control limit for PCB-1232, PCB-1242 and PCB-1262. The samples associated with these CCVs were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: VER-SBO-7 (1-1.5) (480-157265-1), VER-SBO-5 (1-2) (480-157265-2) and VER-SBO-8 (1-2) (480-157265-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS

Method(s) 537 (modified), EPA 537 (Mod), EPA 537(Mod): Due to a shortage in the marketplace for 13C3-PFBS, the target analyte PFBS and/or Perfluoropentanesulfonic acid (PFPeS) could not be quantitated against 13C3-PFBS (its labeled variant) as listed in the SOP. PFBS and Perfluoropentanesulfonic acid (PFPeS) was quantitated versus 18O2-PFHxS instead: (ICV 320-317875/10) and (ICV 320-317875/11).

Method(s) 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-8:2 FTS for the following sample: VER-SBO-5 (1-2) (480-157265-2). This sample was re-analyzed with concurring results. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method(s) 537 (modified): The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 6:2 FTS for preparation batch 320-316441 and analytical batch 320-319147 were outside control limits. Sample matrix interference are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Job ID: 480-157265-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Client Sample ID: VER-SB0-7 (1-1.5)

Lab Sample ID: 480-157265-1

No Detections.

Client Sample ID: VER-SBO-5 (1-2)

Lab Sample ID: 480-157265-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	320	J	920	92	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	280	J	920	140	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	350	J	920	150	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	190	J	920	97	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	180	J	920	120	ug/Kg	5	✱	8270D	Total/NA
Chrysene	240	J	920	210	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	470	J	920	97	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150	J	920	110	ug/Kg	5	✱	8270D	Total/NA
Pyrene	430	J	920	110	ug/Kg	5	✱	8270D	Total/NA
Perfluorobutanoic acid (PFBA)	0.032	J	0.22	0.030	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.063	J	0.22	0.027	ug/Kg	1	✱	537 (modified)	Total/NA
6:2 FTS	6.4	F1	2.2	0.16	ug/Kg	1	✱	537 (modified)	Total/NA
Aluminum	11900		10.4	4.6	mg/Kg	1	✱	6010C	Total/NA
Arsenic	7.7		2.1	0.42	mg/Kg	1	✱	6010C	Total/NA
Barium	71.5		0.52	0.11	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.60		0.21	0.029	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.040	J	0.21	0.031	mg/Kg	1	✱	6010C	Total/NA
Calcium	30700	B	52.1	3.4	mg/Kg	1	✱	6010C	Total/NA
Chromium	19.4		0.52	0.21	mg/Kg	1	✱	6010C	Total/NA
Cobalt	10.5		0.52	0.052	mg/Kg	1	✱	6010C	Total/NA
Copper	36.2		1.0	0.22	mg/Kg	1	✱	6010C	Total/NA
Iron	24100		10.4	3.6	mg/Kg	1	✱	6010C	Total/NA
Lead	63.1		1.0	0.25	mg/Kg	1	✱	6010C	Total/NA
Magnesium	7530		20.8	0.97	mg/Kg	1	✱	6010C	Total/NA
Manganese	530	B	0.21	0.033	mg/Kg	1	✱	6010C	Total/NA
Nickel	27.0		5.2	0.24	mg/Kg	1	✱	6010C	Total/NA
Potassium	2330		31.2	20.8	mg/Kg	1	✱	6010C	Total/NA
Sodium	1110		146	13.5	mg/Kg	1	✱	6010C	Total/NA
Vanadium	22.1		0.52	0.11	mg/Kg	1	✱	6010C	Total/NA
Zinc	75.5		2.1	0.67	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.15		0.020	0.0081	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: VER-SBO-8 (1-2)

Lab Sample ID: 480-157265-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	19	J *	37	2.7	ug/Kg	1	✱	8260C	Total/NA
Acetone	110		37	6.2	ug/Kg	1	✱	8260C	Total/NA
Benzo[a]anthracene	880	J	1000	100	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	1000		1000	150	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	1300		1000	160	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	1300		1000	110	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	630	J	1000	130	ug/Kg	5	✱	8270D	Total/NA
Chrysene	740	J	1000	230	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	1600		1000	110	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	840	J	1000	130	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	480	J	1000	150	ug/Kg	5	✱	8270D	Total/NA
Pyrene	1900		1000	120	ug/Kg	5	✱	8270D	Total/NA
Aluminum	9970		12.1	5.3	mg/Kg	1	✱	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Client Sample ID: VER-SBO-8 (1-2) (Continued)

Lab Sample ID: 480-157265-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	11.3		2.4	0.49	mg/Kg	1		✱	6010C	Total/NA
Barium	114		0.61	0.13	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.57		0.24	0.034	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.28		0.24	0.036	mg/Kg	1		✱	6010C	Total/NA
Calcium	46700	B	60.6	4.0	mg/Kg	1		✱	6010C	Total/NA
Chromium	17.6		0.61	0.24	mg/Kg	1		✱	6010C	Total/NA
Cobalt	9.3		0.61	0.061	mg/Kg	1		✱	6010C	Total/NA
Copper	57.9		1.2	0.25	mg/Kg	1		✱	6010C	Total/NA
Iron	21900		12.1	4.2	mg/Kg	1		✱	6010C	Total/NA
Lead	307		1.2	0.29	mg/Kg	1		✱	6010C	Total/NA
Magnesium	6160		24.3	1.1	mg/Kg	1		✱	6010C	Total/NA
Manganese	412	B	0.24	0.039	mg/Kg	1		✱	6010C	Total/NA
Nickel	21.2		6.1	0.28	mg/Kg	1		✱	6010C	Total/NA
Potassium	1930		36.4	24.3	mg/Kg	1		✱	6010C	Total/NA
Sodium	252		170	15.8	mg/Kg	1		✱	6010C	Total/NA
Vanadium	22.2		0.61	0.13	mg/Kg	1		✱	6010C	Total/NA
Zinc	152		2.4	0.78	mg/Kg	1		✱	6010C	Total/NA
Mercury	0.82		0.024	0.0097	mg/Kg	1		✱	7471B	Total/NA
Cyanide, Total	0.80	J	1.2	0.57	mg/Kg	1		✱	9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Client Sample ID: VER-SB0-7 (1-1.5)

Lab Sample ID: 480-157265-1

Date Collected: 08/06/19 09:35

Matrix: Solid

Date Received: 08/07/19 08:00

Percent Solids: 88.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.28		0.28	0.054	mg/Kg	☼	08/09/19 15:40	08/12/19 02:58	1
PCB-1221	<0.28		0.28	0.054	mg/Kg	☼	08/09/19 15:40	08/12/19 02:58	1
PCB-1232	<0.28		0.28	0.054	mg/Kg	☼	08/09/19 15:40	08/12/19 02:58	1
PCB-1242	<0.28		0.28	0.054	mg/Kg	☼	08/09/19 15:40	08/12/19 02:58	1
PCB-1248	<0.28		0.28	0.054	mg/Kg	☼	08/09/19 15:40	08/12/19 02:58	1
PCB-1254	<0.28		0.28	0.13	mg/Kg	☼	08/09/19 15:40	08/12/19 02:58	1
PCB-1260	<0.28		0.28	0.13	mg/Kg	☼	08/09/19 15:40	08/12/19 02:58	1
PCB-1262	<0.28		0.28	0.13	mg/Kg	☼	08/09/19 15:40	08/12/19 02:58	1
PCB-1268	<0.28		0.28	0.13	mg/Kg	☼	08/09/19 15:40	08/12/19 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	141		60 - 154				08/09/19 15:40	08/12/19 02:58	1
Tetrachloro-m-xylene	122		60 - 154				08/09/19 15:40	08/12/19 02:58	1
DCB Decachlorobiphenyl	149		65 - 174				08/09/19 15:40	08/12/19 02:58	1
DCB Decachlorobiphenyl	151		65 - 174				08/09/19 15:40	08/12/19 02:58	1

Client Sample ID: VER-SBO-5 (1-2)

Lab Sample ID: 480-157265-2

Date Collected: 08/06/19 09:10

Matrix: Solid

Date Received: 08/07/19 08:00

Percent Solids: 91.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<4.5		4.5	0.33	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
1,2-Dichlorobenzene	<4.5		4.5	0.35	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
1,1,2,2-Tetrachloroethane	<4.5		4.5	0.74	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
1,1,2-Trichloroethane	<4.5		4.5	0.59	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<4.5		4.5	1.0	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
1,1-Dichloroethane	<4.5		4.5	0.55	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
1,1-Dichloroethene	<4.5		4.5	0.56	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
1,2,4-Trichlorobenzene	<4.5		4.5	0.28	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
1,2-Dibromo-3-Chloropropane	<4.5		4.5	2.3	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
1,2-Dichloroethane	<4.5		4.5	0.23	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
1,2-Dichloropropane	<4.5		4.5	2.3	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
1,3-Dichlorobenzene	<4.5		4.5	0.23	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
1,4-Dichlorobenzene	<4.5		4.5	0.64	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
2-Butanone (MEK)	<23 *		23	1.7	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
2-Hexanone	<23		23	2.3	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
4-Methyl-2-pentanone (MIBK)	<23		23	1.5	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Acetone	<23		23	3.8	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Benzene	<4.5		4.5	0.22	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Bromodichloromethane	<4.5		4.5	0.61	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Bromoform	<4.5		4.5	2.3	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Bromomethane	<4.5		4.5	0.41	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Carbon disulfide	<4.5		4.5	2.3	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Carbon tetrachloride	<4.5		4.5	0.44	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Chlorobenzene	<4.5		4.5	0.60	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Dibromochloromethane	<4.5		4.5	0.58	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Chloroethane	<4.5		4.5	1.0	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Chloroform	<4.5		4.5	0.28	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Chloromethane	<4.5		4.5	0.27	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Client Sample ID: VER-SBO-5 (1-2)

Lab Sample ID: 480-157265-2

Date Collected: 08/06/19 09:10

Matrix: Solid

Date Received: 08/07/19 08:00

Percent Solids: 91.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<4.5		4.5	0.58	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
cis-1,3-Dichloropropene	<4.5		4.5	0.65	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Cyclohexane	<4.5		4.5	0.64	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Dichlorodifluoromethane	<4.5		4.5	0.37	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Ethylbenzene	<4.5		4.5	0.31	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
1,2-Dibromoethane	<4.5		4.5	0.58	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Isopropylbenzene	<4.5		4.5	0.68	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Methyl acetate	<23		23	2.7	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Methyl tert-butyl ether	<4.5		4.5	0.45	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Methylcyclohexane	<4.5		4.5	0.69	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Methylene Chloride	<4.5		4.5	2.1	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Styrene	<4.5		4.5	0.23	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Tetrachloroethene	<4.5		4.5	0.61	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Toluene	<4.5		4.5	0.34	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
trans-1,2-Dichloroethene	<4.5		4.5	0.47	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
trans-1,3-Dichloropropene	<4.5		4.5	2.0	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Trichloroethene	<4.5		4.5	1.0	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Trichlorofluoromethane	<4.5		4.5	0.43	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Vinyl chloride	<4.5		4.5	0.55	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1
Xylenes, Total	<9.1		9.1	0.76	ug/Kg	☼	08/07/19 12:00	08/08/19 11:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 125	08/07/19 12:00	08/08/19 11:48	1
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	08/07/19 12:00	08/08/19 11:48	1
4-Bromofluorobenzene (Surr)	103		72 - 126	08/07/19 12:00	08/08/19 11:48	1
Dibromofluoromethane (Surr)	107		60 - 140	08/07/19 12:00	08/08/19 11:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<1100		1100	300	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Biphenyl	<920		920	140	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
bis (2-chloroisopropyl) ether	<920		920	180	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
2,4,5-Trichlorophenol	<920		920	250	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
2,4,6-Trichlorophenol	<920		920	180	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
2,4-Dichlorophenol	<920		920	97	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
2,4-Dimethylphenol	<920		920	220	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
2,4-Dinitrophenol	<9000		9000	4200	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
2,4-Dinitrotoluene	<920		920	190	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
2,6-Dinitrotoluene	<920		920	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
2-Chloronaphthalene	<920		920	150	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
2-Chlorophenol	<920		920	170	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
2-Methylnaphthalene	<920		920	180	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
2-Methylphenol	<920		920	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
2-Nitroaniline	<1800		1800	140	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
2-Nitrophenol	<920		920	260	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
3,3'-Dichlorobenzidine	<1800		1800	1100	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
3-Nitroaniline	<1800		1800	250	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
4,6-Dinitro-2-methylphenol	<1800		1800	920	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
4-Bromophenyl phenyl ether	<920		920	130	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
4-Chloro-3-methylphenol	<920		920	230	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Client Sample ID: VER-SBO-5 (1-2)

Lab Sample ID: 480-157265-2

Date Collected: 08/06/19 09:10

Matrix: Solid

Date Received: 08/07/19 08:00

Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	<920		920	230	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
4-Chlorophenyl phenyl ether	<920		920	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
4-Methylphenol	<1800		1800	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
4-Nitroaniline	<1800		1800	480	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
4-Nitrophenol	<1800		1800	640	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Acenaphthene	<920		920	140	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Acenaphthylene	<920		920	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Acetophenone	<920		920	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Anthracene	<920		920	230	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Atrazine	<920		920	320	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Benzaldehyde	<920		920	730	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Benzo[a]anthracene	320	J	920	92	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Benzo[a]pyrene	280	J	920	140	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Benzo[b]fluoranthene	350	J	920	150	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Benzo[g,h,i]perylene	190	J	920	97	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Benzo[k]fluoranthene	180	J	920	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Bis(2-chloroethoxy)methane	<920		920	190	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Bis(2-chloroethyl)ether	<920		920	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Bis(2-ethylhexyl) phthalate	<920		920	310	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Butyl benzyl phthalate	<920		920	150	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Caprolactam	<920		920	280	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Carbazole	<920		920	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Chrysene	240	J	920	210	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Di-n-butyl phthalate	<920		920	160	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Di-n-octyl phthalate	<920		920	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Dibenz(a,h)anthracene	<920		920	160	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Dibenzofuran	<920		920	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Diethyl phthalate	<920		920	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Dimethyl phthalate	<920		920	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Fluoranthene	470	J	920	97	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Fluorene	<920		920	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Hexachlorobenzene	<920		920	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Hexachlorobutadiene	<920		920	140	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Hexachlorocyclopentadiene	<920		920	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Hexachloroethane	<920		920	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Indeno[1,2,3-cd]pyrene	150	J	920	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Isophorone	<920		920	190	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
N-Nitrosodi-n-propylamine	<920		920	160	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
N-Nitrosodiphenylamine	<920		920	750	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Naphthalene	<920		920	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Nitrobenzene	<920		920	100	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Pentachlorophenol	<1800		1800	920	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Phenanthrene	<920		920	140	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Phenol	<920		920	140	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5
Pyrene	430	J	920	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:02	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	86		53 - 120	08/12/19 06:31	08/14/19 18:02	5
p-Terphenyl-d14 (Surr)	117		65 - 121	08/12/19 06:31	08/14/19 18:02	5
Phenol-d5 (Surr)	85		54 - 120	08/12/19 06:31	08/14/19 18:02	5

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Client Sample ID: VER-SBO-5 (1-2)

Lab Sample ID: 480-157265-2

Date Collected: 08/06/19 09:10

Matrix: Solid

Date Received: 08/07/19 08:00

Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	83		52 - 120	08/12/19 06:31	08/14/19 18:02	5
2,4,6-Tribromophenol (Surr)	82		54 - 120	08/12/19 06:31	08/14/19 18:02	5
2-Fluorobiphenyl	102		60 - 120	08/12/19 06:31	08/14/19 18:02	5
2,4,6-Tribromophenol (Surr)	82		54 - 120	08/12/19 06:31	08/14/19 18:02	5
2-Fluorobiphenyl	102		60 - 120	08/12/19 06:31	08/14/19 18:02	5
2-Fluorophenol (Surr)	83		52 - 120	08/12/19 06:31	08/14/19 18:02	5
Nitrobenzene-d5 (Surr)	86		53 - 120	08/12/19 06:31	08/14/19 18:02	5
p-Terphenyl-d14 (Surr)	117		65 - 121	08/12/19 06:31	08/14/19 18:02	5
Phenol-d5 (Surr)	85		54 - 120	08/12/19 06:31	08/14/19 18:02	5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.26		0.26	0.052	mg/Kg	☼	08/09/19 15:40	08/12/19 03:10	1
PCB-1221	<0.26		0.26	0.052	mg/Kg	☼	08/09/19 15:40	08/12/19 03:10	1
PCB-1232	<0.26		0.26	0.052	mg/Kg	☼	08/09/19 15:40	08/12/19 03:10	1
PCB-1242	<0.26		0.26	0.052	mg/Kg	☼	08/09/19 15:40	08/12/19 03:10	1
PCB-1248	<0.26		0.26	0.052	mg/Kg	☼	08/09/19 15:40	08/12/19 03:10	1
PCB-1254	<0.26		0.26	0.12	mg/Kg	☼	08/09/19 15:40	08/12/19 03:10	1
PCB-1260	<0.26		0.26	0.12	mg/Kg	☼	08/09/19 15:40	08/12/19 03:10	1
PCB-1262	<0.26		0.26	0.12	mg/Kg	☼	08/09/19 15:40	08/12/19 03:10	1
PCB-1268	<0.26		0.26	0.12	mg/Kg	☼	08/09/19 15:40	08/12/19 03:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	141		60 - 154	08/09/19 15:40	08/12/19 03:10	1
Tetrachloro-m-xylene	114		60 - 154	08/09/19 15:40	08/12/19 03:10	1
DCB Decachlorobiphenyl	147		65 - 174	08/09/19 15:40	08/12/19 03:10	1
DCB Decachlorobiphenyl	146		65 - 174	08/09/19 15:40	08/12/19 03:10	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.032	J	0.22	0.030	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluoropentanoic acid (PFPeA)	<0.22		0.22	0.083	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluorohexanoic acid (PFHxA)	<0.22		0.22	0.045	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluoroheptanoic acid (PFHpA)	<0.22		0.22	0.031	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluorooctanoic acid (PFOA)	<0.22		0.22	0.093	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluorononanoic acid (PFNA)	<0.22		0.22	0.039	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluorodecanoic acid (PFDA)	<0.22		0.22	0.024	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluoroundecanoic acid (PFUnA)	<0.22		0.22	0.039	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluorododecanoic acid (PFDoA)	<0.22		0.22	0.072	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluorotridecanoic acid (PFTriA)	<0.22		0.22	0.055	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluorotetradecanoic acid (PFTeA)	<0.22		0.22	0.058	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluorobutanesulfonic acid (PFBS)	0.063	J	0.22	0.027	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluorohexanesulfonic acid (PFHxS)	<0.22		0.22	0.033	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.22		0.22	0.038	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		0.54	0.22	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluorodecanesulfonic acid (PFDS)	<0.22		0.22	0.042	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Perfluorooctanesulfonamide (FOSA)	<0.22		0.22	0.088	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Client Sample ID: VER-SBO-5 (1-2)

Lab Sample ID: 480-157265-2

Date Collected: 08/06/19 09:10

Matrix: Solid

Date Received: 08/07/19 08:00

Percent Solids: 91.7

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.2		2.2	0.42	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.2		2.2	0.40	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
6:2 FTS	6.4	F1	2.2	0.16	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
8:2 FTS	<2.2		2.2	0.27	ug/Kg	☼	08/20/19 17:09	08/28/19 21:53	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	123		25 - 150				08/20/19 17:09	08/28/19 21:53	1
13C5 PFPeA	125		25 - 150				08/20/19 17:09	08/28/19 21:53	1
13C2 PFHxA	122		25 - 150				08/20/19 17:09	08/28/19 21:53	1
13C4 PFHpA	125		25 - 150				08/20/19 17:09	08/28/19 21:53	1
13C4 PFOA	121		25 - 150				08/20/19 17:09	08/28/19 21:53	1
13C5 PFNA	126		25 - 150				08/20/19 17:09	08/28/19 21:53	1
13C2 PFDA	127		25 - 150				08/20/19 17:09	08/28/19 21:53	1
13C2 PFUnA	129		25 - 150				08/20/19 17:09	08/28/19 21:53	1
13C2 PFDoA	134		25 - 150				08/20/19 17:09	08/28/19 21:53	1
13C2 PFTeDA	131		25 - 150				08/20/19 17:09	08/28/19 21:53	1
18O2 PFHxS	114		25 - 150				08/20/19 17:09	08/28/19 21:53	1
13C4 PFOS	104		25 - 150				08/20/19 17:09	08/28/19 21:53	1
13C8 FOSA	104		25 - 150				08/20/19 17:09	08/28/19 21:53	1
d3-NMeFOSAA	133		25 - 150				08/20/19 17:09	08/28/19 21:53	1
d5-NEtFOSAA	144		25 - 150				08/20/19 17:09	08/28/19 21:53	1
M2-6:2 FTS	131		25 - 150				08/20/19 17:09	08/28/19 21:53	1
M2-8:2 FTS	152	*	25 - 150				08/20/19 17:09	08/28/19 21:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11900		10.4	4.6	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Antimony	<15.6		15.6	0.42	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Arsenic	7.7		2.1	0.42	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Barium	71.5		0.52	0.11	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Beryllium	0.60		0.21	0.029	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Cadmium	0.040	J	0.21	0.031	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Calcium	30700	B	52.1	3.4	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Chromium	19.4		0.52	0.21	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Cobalt	10.5		0.52	0.052	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Copper	36.2		1.0	0.22	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Iron	24100		10.4	3.6	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Lead	63.1		1.0	0.25	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Magnesium	7530		20.8	0.97	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Manganese	530	B	0.21	0.033	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Nickel	27.0		5.2	0.24	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Potassium	2330		31.2	20.8	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Selenium	<4.2		4.2	0.42	mg/Kg	☼	08/14/19 09:36	08/15/19 12:40	1
Silver	<0.62		0.62	0.21	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Sodium	1110		146	13.5	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Thallium	<6.2		6.2	0.31	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Vanadium	22.1		0.52	0.11	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1
Zinc	75.5		2.1	0.67	mg/Kg	☼	08/14/19 09:36	08/14/19 20:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Client Sample ID: VER-SBO-5 (1-2)

Date Collected: 08/06/19 09:10

Date Received: 08/07/19 08:00

Lab Sample ID: 480-157265-2

Matrix: Solid

Percent Solids: 91.7

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.020	0.0081	mg/Kg	☼	08/16/19 13:11	08/16/19 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<1.1		1.1	0.51	mg/Kg	☼	08/12/19 14:55	08/12/19 16:21	1

Client Sample ID: VER-SBO-8 (1-2)

Date Collected: 08/06/19 10:00

Date Received: 08/07/19 08:00

Lab Sample ID: 480-157265-3

Matrix: Solid

Percent Solids: 82.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<7.4		7.4	0.54	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
1,2-Dichlorobenzene	<7.4		7.4	0.58	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
1,1,2,2-Tetrachloroethane	<7.4		7.4	1.2	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
1,1,2-Trichloroethane	<7.4		7.4	0.96	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<7.4		7.4	1.7	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
1,1-Dichloroethane	<7.4		7.4	0.90	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
1,1-Dichloroethene	<7.4		7.4	0.90	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
1,2,4-Trichlorobenzene	<7.4		7.4	0.45	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
1,2-Dibromo-3-Chloropropane	<7.4		7.4	3.7	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
1,2-Dichloroethane	<7.4		7.4	0.37	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
1,2-Dichloropropane	<7.4		7.4	3.7	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
1,3-Dichlorobenzene	<7.4		7.4	0.38	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
1,4-Dichlorobenzene	<7.4		7.4	1.0	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
2-Butanone (MEK)	19 J *		37	2.7	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
2-Hexanone	<37		37	3.7	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
4-Methyl-2-pentanone (MIBK)	<37		37	2.4	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Acetone	110		37	6.2	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Benzene	<7.4		7.4	0.36	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Bromodichloromethane	<7.4		7.4	0.99	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Bromoform	<7.4		7.4	3.7	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Bromomethane	<7.4		7.4	0.66	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Carbon disulfide	<7.4		7.4	3.7	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Carbon tetrachloride	<7.4		7.4	0.71	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Chlorobenzene	<7.4		7.4	0.97	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Dibromochloromethane	<7.4		7.4	0.94	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Chloroethane	<7.4		7.4	1.7	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Chloroform	<7.4		7.4	0.46	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Chloromethane	<7.4		7.4	0.45	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
cis-1,2-Dichloroethene	<7.4		7.4	0.94	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
cis-1,3-Dichloropropene	<7.4		7.4	1.1	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Cyclohexane	<7.4		7.4	1.0	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Dichlorodifluoromethane	<7.4		7.4	0.61	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Ethylbenzene	<7.4		7.4	0.51	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
1,2-Dibromoethane	<7.4		7.4	0.95	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Isopropylbenzene	<7.4		7.4	1.1	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Methyl acetate	<37		37	4.5	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Methyl tert-butyl ether	<7.4		7.4	0.72	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Methylcyclohexane	<7.4		7.4	1.1	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Client Sample ID: VER-SBO-8 (1-2)

Lab Sample ID: 480-157265-3

Date Collected: 08/06/19 10:00

Matrix: Solid

Date Received: 08/07/19 08:00

Percent Solids: 82.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<7.4		7.4	3.4	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Styrene	<7.4		7.4	0.37	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Tetrachloroethene	<7.4		7.4	0.99	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Toluene	<7.4		7.4	0.56	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
trans-1,2-Dichloroethene	<7.4		7.4	0.76	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
trans-1,3-Dichloropropene	<7.4		7.4	3.2	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Trichloroethene	<7.4		7.4	1.6	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Trichlorofluoromethane	<7.4		7.4	0.70	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Vinyl chloride	<7.4		7.4	0.90	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1
Xylenes, Total	<15		15	1.2	ug/Kg	☼	08/07/19 12:00	08/08/19 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		71 - 125	08/07/19 12:00	08/08/19 12:14	1
1,2-Dichloroethane-d4 (Surr)	105		64 - 126	08/07/19 12:00	08/08/19 12:14	1
4-Bromofluorobenzene (Surr)	102		72 - 126	08/07/19 12:00	08/08/19 12:14	1
Dibromofluoromethane (Surr)	108		60 - 140	08/07/19 12:00	08/08/19 12:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	<1000		1000	150	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
bis (2-chloroisopropyl) ether	<1000		1000	200	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
2,4,5-Trichlorophenol	<1000		1000	280	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
2,4,6-Trichlorophenol	<1000		1000	200	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
2,4-Dichlorophenol	<1000		1000	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
2,4-Dimethylphenol	<1000		1000	250	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
2,4-Dinitrophenol	<10000		10000	4700	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
2,4-Dinitrotoluene	<1000		1000	210	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
2,6-Dinitrotoluene	<1000		1000	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
2-Chloronaphthalene	<1000		1000	170	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
2-Chlorophenol	<1000		1000	190	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
2-Methylnaphthalene	<1000		1000	200	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
2-Methylphenol	<1000		1000	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
2-Nitroaniline	<2000		2000	150	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
2-Nitrophenol	<1000		1000	290	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
3,3'-Dichlorobenzidine	<2000		2000	1200	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
3-Nitroaniline	<2000		2000	280	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
4,6-Dinitro-2-methylphenol	<2000		2000	1000	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
4-Bromophenyl phenyl ether	<1000		1000	140	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
4-Chloro-3-methylphenol	<1000		1000	250	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
4-Chloroaniline	<1000		1000	250	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
4-Chlorophenyl phenyl ether	<1000		1000	130	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
4-Methylphenol	<2000		2000	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
4-Nitroaniline	<2000		2000	540	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
4-Nitrophenol	<2000		2000	720	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Acenaphthene	<1000		1000	150	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Acenaphthylene	<1000		1000	130	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Acetophenone	<1000		1000	140	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Anthracene	<1000		1000	250	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Atrazine	<1000		1000	350	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Benzaldehyde	<1000		1000	810	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Client Sample ID: VER-SBO-8 (1-2)

Lab Sample ID: 480-157265-3

Date Collected: 08/06/19 10:00

Matrix: Solid

Date Received: 08/07/19 08:00

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	880	J	1000	100	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Benzo[a]pyrene	1000		1000	150	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Benzo[b]fluoranthene	1300		1000	160	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Benzo[g,h,i]perylene	1300		1000	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Benzo[k]fluoranthene	630	J	1000	130	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Bis(2-chloroethoxy)methane	<1000		1000	220	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Bis(2-chloroethyl)ether	<1000		1000	130	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Bis(2-ethylhexyl) phthalate	<1000		1000	350	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Butyl benzyl phthalate	<1000		1000	170	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Caprolactam	<1000		1000	310	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Carbazole	<1000		1000	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Chrysene	740	J	1000	230	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Di-n-butyl phthalate	<1000		1000	170	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Di-n-octyl phthalate	<1000		1000	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Dibenz(a,h)anthracene	<1000		1000	180	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Dibenzofuran	<1000		1000	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Diethyl phthalate	<1000		1000	130	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Dimethyl phthalate	<1000		1000	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Fluoranthene	1600		1000	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Fluorene	<1000		1000	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Hexachlorobenzene	<1000		1000	140	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Hexachlorobutadiene	<1000		1000	150	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Hexachlorocyclopentadiene	<1000		1000	140	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Hexachloroethane	<1000		1000	130	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Indeno[1,2,3-cd]pyrene	840	J	1000	130	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Isophorone	<1000		1000	220	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
N-Nitrosodi-n-propylamine	<1000		1000	170	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
N-Nitrosodiphenylamine	<1000		1000	830	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Naphthalene	<1000		1000	130	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Nitrobenzene	<1000		1000	110	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Pentachlorophenol	<2000		2000	1000	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Phenanthrene	480	J	1000	150	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Phenol	<1000		1000	160	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5
Pyrene	1900		1000	120	ug/Kg	☼	08/12/19 06:31	08/14/19 18:26	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		54 - 120	08/12/19 06:31	08/14/19 18:26	5
2-Fluorobiphenyl	90		60 - 120	08/12/19 06:31	08/14/19 18:26	5
2-Fluorophenol (Surr)	71		52 - 120	08/12/19 06:31	08/14/19 18:26	5
Nitrobenzene-d5 (Surr)	70		53 - 120	08/12/19 06:31	08/14/19 18:26	5
p-Terphenyl-d14 (Surr)	103		65 - 121	08/12/19 06:31	08/14/19 18:26	5
Phenol-d5 (Surr)	76		54 - 120	08/12/19 06:31	08/14/19 18:26	5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.24		0.24	0.047	mg/Kg	☼	08/09/19 15:40	08/12/19 03:23	1
PCB-1221	<0.24		0.24	0.047	mg/Kg	☼	08/09/19 15:40	08/12/19 03:23	1
PCB-1232	<0.24		0.24	0.047	mg/Kg	☼	08/09/19 15:40	08/12/19 03:23	1
PCB-1242	<0.24		0.24	0.047	mg/Kg	☼	08/09/19 15:40	08/12/19 03:23	1
PCB-1248	<0.24		0.24	0.047	mg/Kg	☼	08/09/19 15:40	08/12/19 03:23	1

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Client Sample ID: VER-SBO-8 (1-2)

Lab Sample ID: 480-157265-3

Date Collected: 08/06/19 10:00

Matrix: Solid

Date Received: 08/07/19 08:00

Percent Solids: 82.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<0.24		0.24	0.11	mg/Kg	☼	08/09/19 15:40	08/12/19 03:23	1
PCB-1260	<0.24		0.24	0.11	mg/Kg	☼	08/09/19 15:40	08/12/19 03:23	1
PCB-1262	<0.24		0.24	0.11	mg/Kg	☼	08/09/19 15:40	08/12/19 03:23	1
PCB-1268	<0.24		0.24	0.11	mg/Kg	☼	08/09/19 15:40	08/12/19 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	130		60 - 154	08/09/19 15:40	08/12/19 03:23	1
Tetrachloro-m-xylene	107		60 - 154	08/09/19 15:40	08/12/19 03:23	1
DCB Decachlorobiphenyl	127		65 - 174	08/09/19 15:40	08/12/19 03:23	1
DCB Decachlorobiphenyl	123		65 - 174	08/09/19 15:40	08/12/19 03:23	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9970		12.1	5.3	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Antimony	<18.2		18.2	0.49	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Arsenic	11.3		2.4	0.49	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Barium	114		0.61	0.13	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Beryllium	0.57		0.24	0.034	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Cadmium	0.28		0.24	0.036	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Calcium	46700	B	60.6	4.0	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Chromium	17.6		0.61	0.24	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Cobalt	9.3		0.61	0.061	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Copper	57.9		1.2	0.25	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Iron	21900		12.1	4.2	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Lead	307		1.2	0.29	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Magnesium	6160		24.3	1.1	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Manganese	412	B	0.24	0.039	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Nickel	21.2		6.1	0.28	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Potassium	1930		36.4	24.3	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Selenium	<4.9		4.9	0.49	mg/Kg	☼	08/14/19 09:36	08/15/19 12:44	1
Silver	<0.73		0.73	0.24	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Sodium	252		170	15.8	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Thallium	<7.3		7.3	0.36	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Vanadium	22.2		0.61	0.13	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1
Zinc	152		2.4	0.78	mg/Kg	☼	08/14/19 09:36	08/14/19 20:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.82		0.024	0.0097	mg/Kg	☼	08/16/19 13:11	08/16/19 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.80	J	1.2	0.57	mg/Kg	☼	08/12/19 14:55	08/12/19 16:22	1

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Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TOL (71-125)	DCA (64-126)	BFB (72-126)	DBFM (60-140)
480-157265-2	VER-SBO-5 (1-2)	101	107	103	107
480-157265-3	VER-SBO-8 (1-2)	102	105	102	108
LCS 480-485964/1-A	Lab Control Sample	101	114	103	104
MB 480-485964/3-A	Method Blank	100	105	102	107

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (54-120)	TBP (54-120)	FBP (60-120)	FBP (60-120)	2FP (52-120)	2FP (52-120)	NBZ (53-120)	NBZ (53-120)
480-157265-2	VER-SBO-5 (1-2)	82	82	102	102	83	83	86	86
480-157265-3	VER-SBO-8 (1-2)	74	74	90	90	71	71	70	70
LCS 480-486399/2-A	Lab Control Sample	91	91	103	103	76	76	85	85
MB 480-486399/1-A	Method Blank	79	79	102	102	80	80	87	87

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TPHd14 (65-121)	TPHd14 (65-121)	PHL (54-120)	PHL (54-120)
480-157265-2	VER-SBO-5 (1-2)	117	117	85	85
480-157265-3	VER-SBO-8 (1-2)	103	103	76	76
LCS 480-486399/2-A	Lab Control Sample	117	117	72	72
MB 480-486399/1-A	Method Blank	111	111	76	76

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-157265-1	VER-SBO-7 (1-1.5)	141	122	149	151
480-157265-2	VER-SBO-5 (1-2)	141	114	147	146
480-157265-3	VER-SBO-8 (1-2)	130	107	127	123
LCS 480-486323/2-A	Lab Control Sample	148	133	167	165
MB 480-486323/1-A	Method Blank	139	112	138	140

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Eurofins TestAmerica, Buffalo

Isotope Dilution Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	PFHpA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
480-157265-2	VER-SBO-5 (1-2)	123	125	122	125	121	126	127	129
480-157265-2 MS	VER-SBO-5 (1-2)	81	81	75	81	81	78	81	82
480-157265-2 MSD	VER-SBO-5 (1-2)	73	73	70	71	70	70	72	72
LCS 320-316441/2-A	Lab Control Sample	76	74	72	80	74	76	76	79
LCSD 320-316441/3-A	Lab Control Sample Dup	87	88	83	91	83	86	89	90
MB 320-316441/1-A	Method Blank	80	80	77	83	77	79	81	84

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	-NMeFOS/ (25-150)	-NEtFOS/ (25-150)	M262FTS (25-150)
480-157265-2	VER-SBO-5 (1-2)	134	131	114	104	104	133	144	131
480-157265-2 MS	VER-SBO-5 (1-2)	84	79	73	72	63	73	92	75
480-157265-2 MSD	VER-SBO-5 (1-2)	75	76	69	63	54	65	76	72
LCS 320-316441/2-A	Lab Control Sample	81	79	87	77	66	66	65	81
LCSD 320-316441/3-A	Lab Control Sample Dup	92	90	97	90	75	86	78	94
MB 320-316441/1-A	Method Blank	85	79	89	82	67	78	75	84

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M282FTS (25-150)
480-157265-2	VER-SBO-5 (1-2)	152 *
480-157265-2 MS	VER-SBO-5 (1-2)	90
480-157265-2 MSD	VER-SBO-5 (1-2)	81
LCS 320-316441/2-A	Lab Control Sample	78
LCSD 320-316441/3-A	Lab Control Sample Dup	89
MB 320-316441/1-A	Method Blank	82

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
PFHpA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3-NMeFOSAA = d3-NMeFOSAA
d5-NEtFOSAA = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-485964/3-A

Matrix: Solid

Analysis Batch: 485955

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 485964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0	0.36	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
1,2-Dichlorobenzene	<5.0		5.0	0.39	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.81	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
1,1,2-Trichloroethane	<5.0		5.0	0.65	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0	1.1	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
1,1-Dichloroethane	<5.0		5.0	0.61	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
1,1-Dichloroethene	<5.0		5.0	0.61	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
1,2,4-Trichlorobenzene	<5.0		5.0	0.30	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.5	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
1,2-Dichloroethane	<5.0		5.0	0.25	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
1,2-Dichloropropane	<5.0		5.0	2.5	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
1,3-Dichlorobenzene	<5.0		5.0	0.26	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
1,4-Dichlorobenzene	<5.0		5.0	0.70	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
2-Butanone (MEK)	<25		25	1.8	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
2-Hexanone	<25		25	2.5	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
4-Methyl-2-pentanone (MIBK)	<25		25	1.6	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Acetone	<25		25	4.2	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Benzene	<5.0		5.0	0.25	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Bromodichloromethane	<5.0		5.0	0.67	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Bromoform	<5.0		5.0	2.5	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Bromomethane	<5.0		5.0	0.45	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Carbon disulfide	<5.0		5.0	2.5	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Carbon tetrachloride	<5.0		5.0	0.48	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Chlorobenzene	<5.0		5.0	0.66	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Dibromochloromethane	<5.0		5.0	0.64	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Chloroethane	<5.0		5.0	1.1	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Chloroform	<5.0		5.0	0.31	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Chloromethane	<5.0		5.0	0.30	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
cis-1,2-Dichloroethene	<5.0		5.0	0.64	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
cis-1,3-Dichloropropene	<5.0		5.0	0.72	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Cyclohexane	<5.0		5.0	0.70	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Dichlorodifluoromethane	<5.0		5.0	0.41	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Ethylbenzene	<5.0		5.0	0.35	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
1,2-Dibromoethane	<5.0		5.0	0.64	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Isopropylbenzene	<5.0		5.0	0.75	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Methyl acetate	<25		25	3.0	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Methyl tert-butyl ether	<5.0		5.0	0.49	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Methylcyclohexane	<5.0		5.0	0.76	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Methylene Chloride	<5.0		5.0	2.3	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Styrene	<5.0		5.0	0.25	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Tetrachloroethene	<5.0		5.0	0.67	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Toluene	<5.0		5.0	0.38	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
trans-1,2-Dichloroethene	<5.0		5.0	0.52	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
trans-1,3-Dichloropropene	<5.0		5.0	2.2	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Trichloroethene	<5.0		5.0	1.1	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Trichlorofluoromethane	<5.0		5.0	0.47	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Vinyl chloride	<5.0		5.0	0.61	ug/Kg		08/08/19 06:59	08/08/19 09:00	1
Xylenes, Total	<10		10	0.84	ug/Kg		08/08/19 06:59	08/08/19 09:00	1

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QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-485964/3-A

Matrix: Solid

Analysis Batch: 485955

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 485964

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 125	08/08/19 06:59	08/08/19 09:00	1
1,2-Dichloroethane-d4 (Surr)	105		64 - 126	08/08/19 06:59	08/08/19 09:00	1
4-Bromofluorobenzene (Surr)	102		72 - 126	08/08/19 06:59	08/08/19 09:00	1
Dibromofluoromethane (Surr)	107		60 - 140	08/08/19 06:59	08/08/19 09:00	1

Lab Sample ID: LCS 480-485964/1-A

Matrix: Solid

Analysis Batch: 485955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 485964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	56.1		ug/Kg		112	77 - 121
1,2-Dichlorobenzene	50.0	50.9		ug/Kg		102	75 - 120
1,1,2,2-Tetrachloroethane	50.0	51.6		ug/Kg		103	80 - 120
1,1,2-Trichloroethane	50.0	51.5		ug/Kg		103	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.4		ug/Kg		113	60 - 140
1,1-Dichloroethane	50.0	55.1		ug/Kg		110	73 - 126
1,1-Dichloroethene	50.0	55.0		ug/Kg		110	59 - 125
1,2,4-Trichlorobenzene	50.0	51.5		ug/Kg		103	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/Kg		100	63 - 124
1,2-Dichloroethane	50.0	53.5		ug/Kg		107	77 - 122
1,2-Dichloropropane	50.0	53.1		ug/Kg		106	75 - 124
1,3-Dichlorobenzene	50.0	51.2		ug/Kg		102	74 - 120
1,4-Dichlorobenzene	50.0	51.5		ug/Kg		103	73 - 120
2-Butanone (MEK)	250	517	*	ug/Kg		207	70 - 134
2-Hexanone	250	266		ug/Kg		106	59 - 130
4-Methyl-2-pentanone (MIBK)	250	261		ug/Kg		104	65 - 133
Acetone	250	279		ug/Kg		111	61 - 137
Benzene	50.0	54.1		ug/Kg		108	79 - 127
Bromodichloromethane	50.0	56.0		ug/Kg		112	80 - 122
Bromoform	50.0	59.0		ug/Kg		118	68 - 126
Bromomethane	50.0	51.1		ug/Kg		102	37 - 149
Carbon disulfide	50.0	54.3		ug/Kg		109	64 - 131
Carbon tetrachloride	50.0	56.9		ug/Kg		114	75 - 135
Chlorobenzene	50.0	53.6		ug/Kg		107	76 - 124
Dibromochloromethane	50.0	56.5		ug/Kg		113	76 - 125
Chloroethane	50.0	50.8		ug/Kg		102	69 - 135
Chloroform	50.0	54.2		ug/Kg		108	80 - 120
Chloromethane	50.0	43.9		ug/Kg		88	63 - 127
cis-1,2-Dichloroethene	50.0	54.8		ug/Kg		110	81 - 120
cis-1,3-Dichloropropene	50.0	56.1		ug/Kg		112	80 - 120
Cyclohexane	50.0	51.8		ug/Kg		104	65 - 120
Dichlorodifluoromethane	50.0	45.6		ug/Kg		91	57 - 142
Ethylbenzene	50.0	53.5		ug/Kg		107	80 - 120
1,2-Dibromoethane	50.0	54.3		ug/Kg		109	78 - 120
Isopropylbenzene	50.0	52.1		ug/Kg		104	72 - 120
Methyl acetate	100	119		ug/Kg		119	55 - 136
Methyl tert-butyl ether	50.0	52.5		ug/Kg		105	63 - 125
Methylcyclohexane	50.0	54.2		ug/Kg		108	60 - 140

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-485964/1-A

Matrix: Solid

Analysis Batch: 485955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 485964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	51.3		ug/Kg		103	61 - 127
Styrene	50.0	53.5		ug/Kg		107	80 - 120
Tetrachloroethene	50.0	58.5		ug/Kg		117	74 - 122
Toluene	50.0	53.3		ug/Kg		107	74 - 128
trans-1,2-Dichloroethene	50.0	56.7		ug/Kg		113	78 - 126
Trichloroethene	50.0	55.3		ug/Kg		111	77 - 129
Trichlorofluoromethane	50.0	54.9		ug/Kg		110	65 - 146
Vinyl chloride	50.0	47.8		ug/Kg		96	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		71 - 125
1,2-Dichloroethane-d4 (Surr)	114		64 - 126
4-Bromofluorobenzene (Surr)	103		72 - 126
Dibromofluoromethane (Surr)	104		60 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-486399/1-A

Matrix: Solid

Analysis Batch: 486943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<200		200	54	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Biphenyl	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
bis (2-chloroisopropyl) ether	<170		170	33	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4,5-Trichlorophenol	<170		170	45	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4,6-Trichlorophenol	<170		170	33	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4-Dichlorophenol	<170		170	18	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4-Dimethylphenol	<170		170	40	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4-Dinitrophenol	<1600		1600	770	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4-Dinitrotoluene	<170		170	34	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,6-Dinitrotoluene	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Chloronaphthalene	<170		170	28	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Chlorophenol	<170		170	30	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Methylnaphthalene	<170		170	33	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Methylphenol	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Nitroaniline	<320		320	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Nitrophenol	<170		170	47	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
3,3'-Dichlorobenzidine	<320		320	200	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
3-Nitroaniline	<320		320	46	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4,6-Dinitro-2-methylphenol	<320		320	170	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Bromophenyl phenyl ether	<170		170	24	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Chloro-3-methylphenol	<170		170	41	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Chloroaniline	<170		170	41	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Chlorophenyl phenyl ether	<170		170	21	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Methylphenol	<320		320	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Nitroaniline	<320		320	87	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Nitrophenol	<320		320	120	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Acenaphthene	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1

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QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-486399/1-A

Matrix: Solid

Analysis Batch: 486943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Acetophenone	<170		170	23	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Anthracene	<170		170	41	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Atrazine	<170		170	58	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzaldehyde	<170		170	130	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[a]anthracene	<170		170	17	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[a]pyrene	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[b]fluoranthene	<170		170	27	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[g,h,i]perylene	<170		170	18	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[k]fluoranthene	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Bis(2-chloroethyl)ether	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Bis(2-ethylhexyl) phthalate	<170		170	57	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Butyl benzyl phthalate	<170		170	28	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Caprolactam	<170		170	50	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Carbazole	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Chrysene	<170		170	37	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Di-n-butyl phthalate	<170		170	28	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Di-n-octyl phthalate	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Dibenz(a,h)anthracene	<170		170	29	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Dibenzofuran	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Diethyl phthalate	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Dimethyl phthalate	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Fluoranthene	<170		170	18	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Fluorene	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Hexachlorobenzene	<170		170	23	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Hexachlorobutadiene	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Hexachlorocyclopentadiene	<170		170	23	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Hexachloroethane	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Indeno[1,2,3-cd]pyrene	<170		170	21	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Isophorone	<170		170	35	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
N-Nitrosodi-n-propylamine	<170		170	28	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
N-Nitrosodiphenylamine	<170		170	140	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Naphthalene	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Nitrobenzene	<170		170	19	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Pentachlorophenol	<320		320	170	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Phenanthrene	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Phenol	<170		170	26	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Pyrene	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		54 - 120	08/12/19 06:31	08/14/19 12:42	1
2-Fluorobiphenyl	102		60 - 120	08/12/19 06:31	08/14/19 12:42	1
2-Fluorophenol (Surr)	80		52 - 120	08/12/19 06:31	08/14/19 12:42	1
Nitrobenzene-d5 (Surr)	87		53 - 120	08/12/19 06:31	08/14/19 12:42	1
p-Terphenyl-d14 (Surr)	111		65 - 121	08/12/19 06:31	08/14/19 12:42	1
Phenol-d5 (Surr)	76		54 - 120	08/12/19 06:31	08/14/19 12:42	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-486399/2-A

Matrix: Solid

Analysis Batch: 486943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1650	912		ug/Kg		55	23 - 120
Biphenyl	1650	1720		ug/Kg		104	59 - 120
bis (2-chloroisopropyl) ether	1650	1130		ug/Kg		69	44 - 120
2,4,5-Trichlorophenol	1650	1700		ug/Kg		103	59 - 126
2,4,6-Trichlorophenol	1650	1910		ug/Kg		116	59 - 123
2,4-Dichlorophenol	1650	1630		ug/Kg		99	61 - 120
2,4-Dimethylphenol	1650	1470		ug/Kg		89	59 - 120
2,4-Dinitrophenol	3300	2310		ug/Kg		70	41 - 146
2,4-Dinitrotoluene	1650	1540		ug/Kg		93	63 - 120
2,6-Dinitrotoluene	1650	1570		ug/Kg		95	66 - 120
2-Chloronaphthalene	1650	1750		ug/Kg		106	57 - 120
2-Chlorophenol	1650	1390		ug/Kg		84	53 - 120
2-Methylnaphthalene	1650	1580		ug/Kg		96	59 - 120
2-Methylphenol	1650	1370		ug/Kg		83	54 - 120
2-Nitroaniline	1650	1470		ug/Kg		89	61 - 120
2-Nitrophenol	1650	1450		ug/Kg		88	56 - 120
3,3'-Dichlorobenzidine	3300	3410		ug/Kg		103	54 - 120
3-Nitroaniline	1650	1420		ug/Kg		86	48 - 120
4,6-Dinitro-2-methylphenol	3300	3300		ug/Kg		100	49 - 122
4-Bromophenyl phenyl ether	1650	1720		ug/Kg		104	58 - 120
4-Chloro-3-methylphenol	1650	1540		ug/Kg		94	61 - 120
4-Chloroaniline	1650	1260		ug/Kg		76	38 - 120
4-Chlorophenyl phenyl ether	1650	1710		ug/Kg		104	63 - 124
4-Methylphenol	1650	1390		ug/Kg		84	55 - 120
4-Nitroaniline	1650	1420		ug/Kg		86	56 - 120
4-Nitrophenol	3300	2720		ug/Kg		82	43 - 147
Acenaphthene	1650	1610		ug/Kg		98	62 - 120
Acenaphthylene	1650	1620		ug/Kg		98	58 - 121
Acetophenone	1650	1380		ug/Kg		83	54 - 120
Anthracene	1650	1720		ug/Kg		104	62 - 120
Atrazine	3300	3490		ug/Kg		106	60 - 127
Benzaldehyde	3300	2830	E	ug/Kg		86	10 - 150
Benzo[a]anthracene	1650	1650		ug/Kg		100	65 - 120
Benzo[a]pyrene	1650	1710		ug/Kg		103	64 - 120
Benzo[b]fluoranthene	1650	1860		ug/Kg		113	64 - 120
Benzo[g,h,i]perylene	1650	1690		ug/Kg		102	45 - 145
Benzo[k]fluoranthene	1650	1840		ug/Kg		111	65 - 120
Bis(2-chloroethoxy)methane	1650	1370		ug/Kg		83	55 - 120
Bis(2-chloroethyl)ether	1650	1360		ug/Kg		83	45 - 120
Bis(2-ethylhexyl) phthalate	1650	1680		ug/Kg		102	61 - 133
Butyl benzyl phthalate	1650	1720		ug/Kg		104	61 - 129
Caprolactam	3300	2980		ug/Kg		90	47 - 120
Carbazole	1650	1600		ug/Kg		97	65 - 120
Chrysene	1650	1760		ug/Kg		107	64 - 120
Di-n-butyl phthalate	1650	1710		ug/Kg		103	58 - 130
Di-n-octyl phthalate	1650	1580		ug/Kg		96	57 - 133
Dibenz(a,h)anthracene	1650	1720		ug/Kg		104	54 - 132
Dibenzofuran	1650	1710		ug/Kg		104	63 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-486399/2-A

Matrix: Solid

Analysis Batch: 486943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diethyl phthalate	1650	1720		ug/Kg		104	66 - 120
Dimethyl phthalate	1650	1660		ug/Kg		100	65 - 124
Fluoranthene	1650	1660		ug/Kg		100	62 - 120
Fluorene	1650	1700		ug/Kg		103	63 - 120
Hexachlorobenzene	1650	1490		ug/Kg		90	60 - 120
Hexachlorobutadiene	1650	1720		ug/Kg		104	45 - 120
Hexachlorocyclopentadiene	1650	1570		ug/Kg		95	47 - 120
Hexachloroethane	1650	1310		ug/Kg		79	41 - 120
Indeno[1,2,3-cd]pyrene	1650	1630		ug/Kg		99	56 - 134
Isophorone	1650	1510		ug/Kg		92	56 - 120
N-Nitrosodi-n-propylamine	1650	1310		ug/Kg		79	52 - 120
Naphthalene	1650	1530		ug/Kg		93	55 - 120
Nitrobenzene	1650	1500		ug/Kg		91	54 - 120
Pentachlorophenol	3300	2770		ug/Kg		84	51 - 120
Phenanthrene	1650	1650		ug/Kg		100	60 - 120
Phenol	1650	1220		ug/Kg		74	53 - 120
Pyrene	1650	1770		ug/Kg		107	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	91		54 - 120
2-Fluorobiphenyl	103		60 - 120
2-Fluorophenol (Surr)	76		52 - 120
Nitrobenzene-d5 (Surr)	85		53 - 120
p-Terphenyl-d14 (Surr)	117		65 - 121
Phenol-d5 (Surr)	72		54 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-486323/1-A

Matrix: Solid

Analysis Batch: 486385

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.22		0.22	0.043	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1221	<0.22		0.22	0.043	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1232	<0.22		0.22	0.043	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1242	<0.22		0.22	0.043	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1248	<0.22		0.22	0.043	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1254	<0.22		0.22	0.10	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1260	<0.22		0.22	0.10	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1262	<0.22		0.22	0.10	mg/Kg		08/09/19 15:40	08/11/19 22:51	1
PCB-1268	<0.22		0.22	0.10	mg/Kg		08/09/19 15:40	08/11/19 22:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	139		60 - 154	08/09/19 15:40	08/11/19 22:51	1
Tetrachloro-m-xylene	112		60 - 154	08/09/19 15:40	08/11/19 22:51	1
DCB Decachlorobiphenyl	138		65 - 174	08/09/19 15:40	08/11/19 22:51	1
DCB Decachlorobiphenyl	140		65 - 174	08/09/19 15:40	08/11/19 22:51	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-486323/2-A

Matrix: Solid

Analysis Batch: 486385

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.36	3.54		mg/Kg		150	51 - 185
PCB-1260	2.36	3.65		mg/Kg		155	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	148		60 - 154
Tetrachloro-m-xylene	133		60 - 154
DCB Decachlorobiphenyl	167		65 - 174
DCB Decachlorobiphenyl	165		65 - 174

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-316441/1-A

Matrix: Solid

Analysis Batch: 317749

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 316441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.20		0.20	0.028	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluoropentanoic acid (PFPeA)	<0.20		0.20	0.077	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluorohexanoic acid (PFHxA)	<0.20		0.20	0.042	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluoroheptanoic acid (PFHpA)	<0.20		0.20	0.029	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluorooctanoic acid (PFOA)	<0.20		0.20	0.086	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluorononanoic acid (PFNA)	<0.20		0.20	0.036	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluorodecanoic acid (PFDA)	<0.20		0.20	0.022	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluoroundecanoic acid (PFUnA)	<0.20		0.20	0.036	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluorododecanoic acid (PFDoA)	<0.20		0.20	0.067	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluorotridecanoic acid (PFTriA)	<0.20		0.20	0.051	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluorotetradecanoic acid (PFTeA)	<0.20		0.20	0.054	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		0.20	0.025	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluorohexanesulfonic acid (PFHxS)	<0.20		0.20	0.031	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.20		0.20	0.035	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		0.50	0.20	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.20		0.20	0.039	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
Perfluorooctanesulfonamide (FOSA)	<0.20		0.20	0.082	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	0.39	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	0.37	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
6:2 FTS	<2.0		2.0	0.15	ug/Kg		08/20/19 17:09	08/23/19 16:37	1
8:2 FTS	<2.0		2.0	0.25	ug/Kg		08/20/19 17:09	08/23/19 16:37	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	80		25 - 150	08/20/19 17:09	08/23/19 16:37	1
13C5 PFPeA	80		25 - 150	08/20/19 17:09	08/23/19 16:37	1
13C2 PFHxA	77		25 - 150	08/20/19 17:09	08/23/19 16:37	1
13C4 PFHpA	83		25 - 150	08/20/19 17:09	08/23/19 16:37	1
13C4 PFOA	77		25 - 150	08/20/19 17:09	08/23/19 16:37	1
13C5 PFNA	79		25 - 150	08/20/19 17:09	08/23/19 16:37	1
13C2 PFDA	81		25 - 150	08/20/19 17:09	08/23/19 16:37	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-316441/1-A

Matrix: Solid

Analysis Batch: 317749

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 316441

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFA	84		25 - 150	08/20/19 17:09	08/23/19 16:37	1
13C2 PFDA	85		25 - 150	08/20/19 17:09	08/23/19 16:37	1
13C2 PFTeDA	79		25 - 150	08/20/19 17:09	08/23/19 16:37	1
18O2 PFHxS	89		25 - 150	08/20/19 17:09	08/23/19 16:37	1
13C4 PFOS	82		25 - 150	08/20/19 17:09	08/23/19 16:37	1
13C8 FOSA	67		25 - 150	08/20/19 17:09	08/23/19 16:37	1
d3-NMeFOSAA	78		25 - 150	08/20/19 17:09	08/23/19 16:37	1
d5-NEtFOSAA	75		25 - 150	08/20/19 17:09	08/23/19 16:37	1
M2-6:2 FTS	84		25 - 150	08/20/19 17:09	08/23/19 16:37	1
M2-8:2 FTS	82		25 - 150	08/20/19 17:09	08/23/19 16:37	1

Lab Sample ID: LCS 320-316441/2-A

Matrix: Solid

Analysis Batch: 317749

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 316441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	2.00	1.97		ug/Kg		98	81 - 133
Perfluoropentanoic acid (PFPeA)	2.00	1.85		ug/Kg		92	79 - 120
Perfluorohexanoic acid (PFHxA)	2.00	1.92		ug/Kg		96	75 - 125
Perfluoroheptanoic acid (PFHpA)	2.00	1.76		ug/Kg		88	76 - 124
Perfluorooctanoic acid (PFOA)	2.00	1.83		ug/Kg		91	76 - 121
Perfluorononanoic acid (PFNA)	2.00	1.95		ug/Kg		97	74 - 126
Perfluorodecanoic acid (PFDA)	2.00	1.92		ug/Kg		96	74 - 124
Perfluoroundecanoic acid (PFUnA)	2.00	1.80		ug/Kg		90	74 - 114
Perfluorododecanoic acid (PFDoA)	2.00	1.83		ug/Kg		92	75 - 123
Perfluorotridecanoic acid (PFTriA)	2.00	1.83		ug/Kg		92	43 - 116
Perfluorotetradecanoic acid (PFTeA)	2.00	1.81		ug/Kg		90	22 - 129
Perfluorobutanesulfonic acid (PFBS)	1.77	1.50		ug/Kg		85	73 - 142
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.47		ug/Kg		81	75 - 121
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	1.87		ug/Kg		98	78 - 146
Perfluorooctanesulfonic acid (PFOS)	1.86	1.89		ug/Kg		102	69 - 131
Perfluorodecanesulfonic acid (PFDS)	1.93	1.88		ug/Kg		97	54 - 113
Perfluorooctanesulfonamide (FOSA)	2.00	1.93		ug/Kg		96	62 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.93	J	ug/Kg		96	65 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.03		ug/Kg		101	65 - 135
6:2 FTS	1.90	1.89	J	ug/Kg		100	65 - 135
8:2 FTS	1.92	1.94	J	ug/Kg		101	65 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	76		25 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-316441/2-A

Matrix: Solid

Analysis Batch: 317749

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 316441

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C5 PFPeA	74		25 - 150
13C2 PFHxA	72		25 - 150
13C4 PFHpA	80		25 - 150
13C4 PFOA	74		25 - 150
13C5 PFNA	76		25 - 150
13C2 PFDA	76		25 - 150
13C2 PFUnA	79		25 - 150
13C2 PFDoA	81		25 - 150
13C2 PFTeDA	79		25 - 150
18O2 PFHxS	87		25 - 150
13C4 PFOS	77		25 - 150
13C8 FOSA	66		25 - 150
d3-NMeFOSAA	66		25 - 150
d5-NEtFOSAA	65		25 - 150
M2-6:2 FTS	81		25 - 150
M2-8:2 FTS	78		25 - 150

Lab Sample ID: LCSD 320-316441/3-A

Matrix: Solid

Analysis Batch: 317749

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 316441

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	2.00	2.11		ug/Kg		105	81 - 133	7	30
Perfluoropentanoic acid (PFPeA)	2.00	1.82		ug/Kg		91	79 - 120	1	30
Perfluorohexanoic acid (PFHxA)	2.00	1.98		ug/Kg		99	75 - 125	3	30
Perfluoroheptanoic acid (PFHpA)	2.00	1.84		ug/Kg		92	76 - 124	5	30
Perfluorooctanoic acid (PFOA)	2.00	1.91		ug/Kg		95	76 - 121	4	30
Perfluorononanoic acid (PFNA)	2.00	2.07		ug/Kg		104	74 - 126	6	30
Perfluorodecanoic acid (PFDA)	2.00	1.90		ug/Kg		95	74 - 124	1	30
Perfluoroundecanoic acid (PFUnA)	2.00	1.83		ug/Kg		92	74 - 114	2	30
Perfluorododecanoic acid (PFDoA)	2.00	1.96		ug/Kg		98	75 - 123	7	30
Perfluorotridecanoic acid (PFTriA)	2.00	1.94		ug/Kg		97	43 - 116	6	30
Perfluorotetradecanoic acid (PFTeA)	2.00	1.86		ug/Kg		93	22 - 129	3	30
Perfluorobutanesulfonic acid (PFBS)	1.77	1.64		ug/Kg		93	73 - 142	9	30
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.57		ug/Kg		86	75 - 121	7	30
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	1.90		ug/Kg		100	78 - 146	1	30
Perfluorooctanesulfonic acid (PFOS)	1.86	1.79		ug/Kg		96	69 - 131	6	30
Perfluorodecanesulfonic acid (PFDS)	1.93	1.94		ug/Kg		101	54 - 113	3	30
Perfluorooctanesulfonamide (FOSA)	2.00	1.90		ug/Kg		95	62 - 135	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.94	J	ug/Kg		97	65 - 135	1	30

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-316441/3-A

Matrix: Solid

Analysis Batch: 317749

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 316441

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-ethylperfluorooctanesulfonami	2.00	2.29		ug/Kg		115	65 - 135	12	30
doacetic acid (NETFOSAA)									
6:2 FTS	1.90	2.18		ug/Kg		115	65 - 135	15	30
8:2 FTS	1.92	2.07		ug/Kg		108	65 - 135	6	30
Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits						
13C4 PFBA	87		25 - 150						
13C5 PFPeA	88		25 - 150						
13C2 PFHxA	83		25 - 150						
13C4 PFHpA	91		25 - 150						
13C4 PFOA	83		25 - 150						
13C5 PFNA	86		25 - 150						
13C2 PFDA	89		25 - 150						
13C2 PFUnA	90		25 - 150						
13C2 PFDoA	92		25 - 150						
13C2 PFTeDA	90		25 - 150						
18O2 PFHxS	97		25 - 150						
13C4 PFOS	90		25 - 150						
13C8 FOSA	75		25 - 150						
d3-NMeFOSAA	86		25 - 150						
d5-NEtFOSAA	78		25 - 150						
M2-6:2 FTS	94		25 - 150						
M2-8:2 FTS	89		25 - 150						

Lab Sample ID: 480-157265-2 MS

Matrix: Solid

Analysis Batch: 319147

Client Sample ID: VER-SBO-5 (1-2)

Prep Type: Total/NA

Prep Batch: 316441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	0.032	J	2.19	2.21		ug/Kg	☼	99	81 - 133
Perfluoropentanoic acid (PFPeA)	<0.22		2.19	2.22		ug/Kg	☼	101	79 - 120
Perfluorohexanoic acid (PFHxA)	<0.22		2.19	2.28		ug/Kg	☼	104	75 - 125
Perfluoroheptanoic acid (PFHpA)	<0.22		2.19	2.19		ug/Kg	☼	100	76 - 124
Perfluorooctanoic acid (PFOA)	<0.22		2.19	2.23		ug/Kg	☼	102	76 - 121
Perfluorononanoic acid (PFNA)	<0.22		2.19	2.33		ug/Kg	☼	106	74 - 126
Perfluorodecanoic acid (PFDA)	<0.22		2.19	2.30		ug/Kg	☼	105	74 - 124
Perfluoroundecanoic acid (PFUnA)	<0.22		2.19	2.32		ug/Kg	☼	106	74 - 114
Perfluorododecanoic acid (PFDoA)	<0.22		2.19	2.10		ug/Kg	☼	96	75 - 123
Perfluorotridecanoic acid (PFTriA)	<0.22		2.19	2.10		ug/Kg	☼	96	43 - 116
Perfluorotetradecanoic acid (PFTeA)	<0.22		2.19	2.10		ug/Kg	☼	96	22 - 129
Perfluorobutanesulfonic acid (PFBS)	0.063	J	1.94	2.03		ug/Kg	☼	102	73 - 142
Perfluorohexanesulfonic acid (PFHxS)	<0.22		1.99	1.98		ug/Kg	☼	99	75 - 121
Perfluoroheptanesulfonic Acid (PFHpS)	<0.22		2.08	2.18		ug/Kg	☼	105	78 - 146

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-157265-2 MS

Matrix: Solid

Analysis Batch: 319147

Client Sample ID: VER-SBO-5 (1-2)

Prep Type: Total/NA

Prep Batch: 316441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.03	2.00		ug/Kg	☼	98	69 - 131
Perfluorodecanesulfonic acid (PFDS)	<0.22		2.11	2.13		ug/Kg	☼	101	54 - 113
Perfluorooctanesulfonamide (FOSA)	<0.22		2.19	2.34		ug/Kg	☼	107	62 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.2		2.19	2.43		ug/Kg	☼	111	65 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.2		2.19	2.19	J	ug/Kg	☼	100	65 - 135
6:2 FTS	6.4	F1	2.08	5.96	F1	ug/Kg	☼	-19	65 - 135
8:2 FTS	<2.2		2.10	2.22		ug/Kg	☼	106	65 - 135

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	81		25 - 150
13C5 PFPeA	81		25 - 150
13C2 PFHxA	75		25 - 150
13C4 PFHpA	81		25 - 150
13C4 PFOA	81		25 - 150
13C5 PFNA	78		25 - 150
13C2 PFDA	81		25 - 150
13C2 PFUnA	82		25 - 150
13C2 PFDoA	84		25 - 150
13C2 PFTeDA	79		25 - 150
18O2 PFHxS	73		25 - 150
13C4 PFOS	72		25 - 150
13C8 FOSA	63		25 - 150
d3-NMeFOSAA	73		25 - 150
d5-NEtFOSAA	92		25 - 150
M2-6:2 FTS	75		25 - 150
M2-8:2 FTS	90		25 - 150

Lab Sample ID: 480-157265-2 MSD

Matrix: Solid

Analysis Batch: 319147

Client Sample ID: VER-SBO-5 (1-2)

Prep Type: Total/NA

Prep Batch: 316441

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.032	J	2.16	2.13		ug/Kg	☼	97	81 - 133	4	30
Perfluoropentanoic acid (PFPeA)	<0.22		2.16	2.15		ug/Kg	☼	100	79 - 120	3	30
Perfluorohexanoic acid (PFHxA)	<0.22		2.16	2.28		ug/Kg	☼	105	75 - 125	0	30
Perfluoroheptanoic acid (PFHpA)	<0.22		2.16	2.15		ug/Kg	☼	100	76 - 124	2	30
Perfluorooctanoic acid (PFOA)	<0.22		2.16	2.27		ug/Kg	☼	105	76 - 121	2	30
Perfluorononanoic acid (PFNA)	<0.22		2.16	2.30		ug/Kg	☼	107	74 - 126	1	30
Perfluorodecanoic acid (PFDA)	<0.22		2.16	2.24		ug/Kg	☼	104	74 - 124	3	30
Perfluoroundecanoic acid (PFUnA)	<0.22		2.16	2.33		ug/Kg	☼	108	74 - 114	0	30
Perfluorododecanoic acid (PFDoA)	<0.22		2.16	2.21		ug/Kg	☼	102	75 - 123	5	30
Perfluorotridecanoic acid (PFTriA)	<0.22		2.16	2.26		ug/Kg	☼	105	43 - 116	7	30

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-157265-2 MSD

Matrix: Solid

Analysis Batch: 319147

Client Sample ID: VER-SBO-5 (1-2)

Prep Type: Total/NA

Prep Batch: 316441

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorotetradecanoic acid (PFTeA)	<0.22		2.16	2.11		ug/Kg	☼	98	22 - 129	0	30
Perfluorobutanesulfonic acid (PFBS)	0.063	J	1.91	2.11		ug/Kg	☼	107	73 - 142	4	30
Perfluorohexanesulfonic acid (PFHxS)	<0.22		1.96	1.86		ug/Kg	☼	94	75 - 121	6	30
Perfluoroheptanesulfonic Acid (PFHpS)	<0.22		2.06	2.23		ug/Kg	☼	108	78 - 146	2	30
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.00	2.15		ug/Kg	☼	107	69 - 131	7	30
Perfluorodecanesulfonic acid (PFDS)	<0.22		2.08	2.21		ug/Kg	☼	106	54 - 113	4	30
Perfluorooctanesulfonamide (FOSA)	<0.22		2.16	2.36		ug/Kg	☼	109	62 - 135	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.2		2.16	2.52		ug/Kg	☼	117	65 - 135	4	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.2		2.16	2.21		ug/Kg	☼	103	65 - 135	1	30
6:2 FTS	6.4	F1	2.05	6.58	F1	ug/Kg	☼	11	65 - 135	10	30
8:2 FTS	<2.2		2.07	2.05	J	ug/Kg	☼	99	65 - 135	8	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	73		25 - 150
13C5 PFPeA	73		25 - 150
13C2 PFHxA	70		25 - 150
13C4 PFHpA	71		25 - 150
13C4 PFOA	70		25 - 150
13C5 PFNA	70		25 - 150
13C2 PFDA	72		25 - 150
13C2 PFUnA	72		25 - 150
13C2 PFDoA	75		25 - 150
13C2 PFTeDA	76		25 - 150
18O2 PFHxS	69		25 - 150
13C4 PFOS	63		25 - 150
13C8 FOSA	54		25 - 150
d3-NMeFOSAA	65		25 - 150
d5-NEtFOSAA	76		25 - 150
M2-6:2 FTS	72		25 - 150
M2-8:2 FTS	81		25 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-486782/1-A

Matrix: Solid

Analysis Batch: 487135

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<9.7		9.7	4.3	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Antimony	<14.6		14.6	0.39	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Arsenic	<1.9		1.9	0.39	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Barium	<0.49		0.49	0.11	mg/Kg		08/14/19 09:36	08/14/19 19:55	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-486782/1-A

Matrix: Solid

Analysis Batch: 487135

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.19		0.19	0.027	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Cadmium	<0.19		0.19	0.029	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Calcium	9.49	J	48.5	3.2	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Chromium	<0.49		0.49	0.19	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Cobalt	<0.49		0.49	0.049	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Copper	<0.97		0.97	0.20	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Iron	<9.7		9.7	3.4	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Lead	<0.97		0.97	0.23	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Magnesium	<19.4		19.4	0.90	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Manganese	0.0961	J	0.19	0.031	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Nickel	<4.9		4.9	0.22	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Potassium	<29.1		29.1	19.4	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Silver	<0.58		0.58	0.19	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Sodium	<136		136	12.6	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Thallium	<5.8		5.8	0.29	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Vanadium	<0.49		0.49	0.11	mg/Kg		08/14/19 09:36	08/14/19 19:55	1
Zinc	<1.9		1.9	0.62	mg/Kg		08/14/19 09:36	08/14/19 19:55	1

Lab Sample ID: MB 480-486782/1-A

Matrix: Solid

Analysis Batch: 487420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<3.9		3.9	0.39	mg/Kg		08/14/19 09:36	08/15/19 12:00	1

Lab Sample ID: LCS 480-486782/22-A

Matrix: Solid

Analysis Batch: 487135

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	1990	1909		mg/Kg		96	41 - 160
Antimony	39.9	40.65		mg/Kg		102	25 - 272
Arsenic	39.9	38.24		mg/Kg		96	69 - 131
Barium	39.9	40.23		mg/Kg		101	72 - 127
Beryllium	39.9	39.44		mg/Kg		99	73 - 127
Cadmium	39.9	38.41		mg/Kg		96	73 - 127
Calcium	1990	1929		mg/Kg		97	74 - 126
Chromium	39.9	39.71		mg/Kg		100	68 - 132
Cobalt	39.9	37.18		mg/Kg		93	75 - 125
Copper	39.9	37.97		mg/Kg		95	74 - 126
Iron	1990	1949		mg/Kg		98	31 - 169
Lead	39.9	37.31		mg/Kg		94	70 - 130
Magnesium	1990	1929		mg/Kg		97	64 - 136
Manganese	39.9	38.75		mg/Kg		97	74 - 125
Nickel	39.9	38.73		mg/Kg		97	70 - 130
Potassium	2000	1879		mg/Kg		94	61 - 139
Selenium	39.9	36.74		mg/Kg		92	64 - 137
Silver	9.97	9.90		mg/Kg		99	66 - 135
Sodium	2000	1863		mg/Kg		93	27 - 174

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-486782/22-A

Matrix: Solid

Analysis Batch: 487135

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	39.9	37.36		mg/Kg		94	67 - 132
Vanadium	39.9	39.73		mg/Kg		100	54 - 146
Zinc	39.9	40.15		mg/Kg		101	67 - 133

Lab Sample ID: LCSSRM 480-486782/2-A

Matrix: Solid

Analysis Batch: 487135

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486782

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10100	9110		mg/Kg		90.2	41.6 - 123.8
Antimony	173	53.97		mg/Kg		31.2	10.0 - 134.1
Arsenic	221	180.7		mg/Kg		81.8	63.8 - 119.0
Barium	288	247.7		mg/Kg		86.0	70.5 - 117.4
Beryllium	102	85.33		mg/Kg		83.7	71.2 - 118.6
Cadmium	153	120.6		mg/Kg		78.9	68.6 - 115.0
Calcium	5190	4287		mg/Kg		82.6	65.7 - 115.6
Chromium	179	151.9		mg/Kg		84.9	65.4 - 121.2
Cobalt	182	174.9		mg/Kg		96.1	71.4 - 119.2
Copper	113	94.20		mg/Kg		83.4	71.4 - 118.6
Iron	15000	14800		mg/Kg		98.7	35.7 - 160.7
Lead	74.5	75.08		mg/Kg		100.8	67.8 - 130.3
Magnesium	2570	2210		mg/Kg		86.0	55.6 - 124.1
Manganese	348	302.5		mg/Kg		86.9	71.3 - 118.4
Nickel	98.0	91.16		mg/Kg		93.0	63.8 - 118.4
Potassium	2630	2201		mg/Kg		83.7	51.7 - 119.0
Silver	75.5	64.03		mg/Kg		84.8	66.6 - 121.7
Sodium	226	192.5		mg/Kg		85.2	39.2 - 133.2
Thallium	64.7	58.28		mg/Kg		90.1	55.0 - 126.0
Vanadium	62.7	58.32		mg/Kg		93.0	53.3 - 132.4
Zinc	281	241.2		mg/Kg		85.9	65.8 - 122.4

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-486782/2-A
Matrix: Solid
Analysis Batch: 487420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486782

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	54.4	44.94		mg/Kg	-	82.6	53.3 - 130.0

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-487471/1-A
Matrix: Solid
Analysis Batch: 487497

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020	0.0083	mg/Kg	-	08/16/19 13:11	08/16/19 14:15	1

Lab Sample ID: LCDSRM 480-487471/3-A ^5
Matrix: Solid
Analysis Batch: 487497

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 487471

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	4.85	3.53		mg/Kg	-	72.8	46.0 - 107.0	4	20

Lab Sample ID: LCSSRM 480-487471/2-A ^5
Matrix: Solid
Analysis Batch: 487497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487471

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	4.85	3.67		mg/Kg	-	75.7	46.0 - 107.0

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-486555/1-A
Matrix: Solid
Analysis Batch: 486586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.97		0.97	0.47	mg/Kg	-	08/12/19 14:55	08/12/19 16:15	1

Lab Sample ID: LCSSRM 480-486555/2-A ^10
Matrix: Solid
Analysis Batch: 486586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486555

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	42.2	10.62		mg/Kg	-	25.2	9.5 - 128.0

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

GC/MS VOA

Analysis Batch: 485955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	8260C	485964
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	8260C	485964
MB 480-485964/3-A	Method Blank	Total/NA	Solid	8260C	485964
LCS 480-485964/1-A	Lab Control Sample	Total/NA	Solid	8260C	485964

Prep Batch: 485964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	5035A_L	
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	5035A_L	
MB 480-485964/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-485964/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 486399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	3550C	
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	3550C	
MB 480-486399/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-486399/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 486943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	8270D	486399
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	8270D	486399
MB 480-486399/1-A	Method Blank	Total/NA	Solid	8270D	486399
LCS 480-486399/2-A	Lab Control Sample	Total/NA	Solid	8270D	486399

GC Semi VOA

Prep Batch: 486323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-1	VER-SBO-7 (1-1.5)	Total/NA	Solid	3550C	
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	3550C	
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	3550C	
MB 480-486323/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-486323/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 486385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-1	VER-SBO-7 (1-1.5)	Total/NA	Solid	8082A	486323
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	8082A	486323
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	8082A	486323
MB 480-486323/1-A	Method Blank	Total/NA	Solid	8082A	486323
LCS 480-486323/2-A	Lab Control Sample	Total/NA	Solid	8082A	486323

LCMS

Prep Batch: 316441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	SHAKE	
MB 320-316441/1-A	Method Blank	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

LCMS (Continued)

Prep Batch: 316441 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-316441/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
LCSD 320-316441/3-A	Lab Control Sample Dup	Total/NA	Solid	SHAKE	
480-157265-2 MS	VER-SBO-5 (1-2)	Total/NA	Solid	SHAKE	
480-157265-2 MSD	VER-SBO-5 (1-2)	Total/NA	Solid	SHAKE	

Analysis Batch: 317749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-316441/1-A	Method Blank	Total/NA	Solid	537 (modified)	316441
LCS 320-316441/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	316441
LCSD 320-316441/3-A	Lab Control Sample Dup	Total/NA	Solid	537 (modified)	316441

Analysis Batch: 319147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	537 (modified)	316441
480-157265-2 MS	VER-SBO-5 (1-2)	Total/NA	Solid	537 (modified)	316441
480-157265-2 MSD	VER-SBO-5 (1-2)	Total/NA	Solid	537 (modified)	316441

Metals

Prep Batch: 486782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	3050B	
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	3050B	
MB 480-486782/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 480-486782/22-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 480-486782/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 487135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	6010C	486782
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	6010C	486782
MB 480-486782/1-A	Method Blank	Total/NA	Solid	6010C	486782
LCS 480-486782/22-A	Lab Control Sample	Total/NA	Solid	6010C	486782
LCSSRM 480-486782/2-A	Lab Control Sample	Total/NA	Solid	6010C	486782

Analysis Batch: 487420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	6010C	486782
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	6010C	486782
MB 480-486782/1-A	Method Blank	Total/NA	Solid	6010C	486782
LCSSRM 480-486782/2-A	Lab Control Sample	Total/NA	Solid	6010C	486782

Prep Batch: 487471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	7471B	
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	7471B	
MB 480-487471/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-487471/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-487471/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Metals

Analysis Batch: 487497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	7471B	487471
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	7471B	487471
MB 480-487471/1-A	Method Blank	Total/NA	Solid	7471B	487471
LCDSRM 480-487471/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	7471B	487471
LCSSRM 480-487471/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	487471

General Chemistry

Analysis Batch: 485926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-1	VER-SBO-7 (1-1.5)	Total/NA	Solid	Moisture	
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	Moisture	
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	Moisture	

Prep Batch: 486555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	9012B	
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	9012B	
MB 480-486555/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-486555/2-A ^1	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 486586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157265-2	VER-SBO-5 (1-2)	Total/NA	Solid	9012B	486555
480-157265-3	VER-SBO-8 (1-2)	Total/NA	Solid	9012B	486555
MB 480-486555/1-A	Method Blank	Total/NA	Solid	9012B	486555
LCSSRM 480-486555/2-A ^1	Lab Control Sample	Total/NA	Solid	9012B	486555

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Client Sample ID: VER-SB0-7 (1-1.5)

Date Collected: 08/06/19 09:35

Date Received: 08/07/19 08:00

Lab Sample ID: 480-157265-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	485926	08/07/19 17:31	CMK	TAL BUF

Client Sample ID: VER-SB0-7 (1-1.5)

Date Collected: 08/06/19 09:35

Date Received: 08/07/19 08:00

Lab Sample ID: 480-157265-1

Matrix: Solid

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			486323	08/09/19 15:40	ATG	TAL BUF
Total/NA	Analysis	8082A		1	486385	08/12/19 02:58	W1T	TAL BUF

Client Sample ID: VER-SBO-5 (1-2)

Date Collected: 08/06/19 09:10

Date Received: 08/07/19 08:00

Lab Sample ID: 480-157265-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	485926	08/07/19 17:31	CMK	TAL BUF

Client Sample ID: VER-SBO-5 (1-2)

Date Collected: 08/06/19 09:10

Date Received: 08/07/19 08:00

Lab Sample ID: 480-157265-2

Matrix: Solid

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			485964	08/07/19 12:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	485955	08/08/19 11:48	LCH	TAL BUF
Total/NA	Prep	3550C			486399	08/12/19 06:31	SMP	TAL BUF
Total/NA	Analysis	8270D		5	486943	08/14/19 18:02	PJQ	TAL BUF
Total/NA	Prep	3550C			486323	08/09/19 15:40	ATG	TAL BUF
Total/NA	Analysis	8082A		1	486385	08/12/19 03:10	W1T	TAL BUF
Total/NA	Prep	SHAKE			316441	08/20/19 17:09	MC	TAL SAC
Total/NA	Analysis	537 (modified)		1	319147	08/28/19 21:53	D1R	TAL SAC
Total/NA	Prep	3050B			486782	08/14/19 09:36	NSW	TAL BUF
Total/NA	Analysis	6010C		1	487135	08/14/19 20:49	EMB	TAL BUF
Total/NA	Prep	3050B			486782	08/14/19 09:36	NSW	TAL BUF
Total/NA	Analysis	6010C		1	487420	08/15/19 12:40	EMB	TAL BUF
Total/NA	Prep	7471B			487471	08/16/19 13:11	BMB	TAL BUF
Total/NA	Analysis	7471B		1	487497	08/16/19 14:36	BMB	TAL BUF
Total/NA	Prep	9012B			486555	08/12/19 14:55	AJL	TAL BUF
Total/NA	Analysis	9012B		1	486586	08/12/19 16:21	MDL	TAL BUF

Client Sample ID: VER-SBO-8 (1-2)

Date Collected: 08/06/19 10:00

Date Received: 08/07/19 08:00

Lab Sample ID: 480-157265-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	485926	08/07/19 17:31	CMK	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Client Sample ID: VER-SBO-8 (1-2)

Lab Sample ID: 480-157265-3

Date Collected: 08/06/19 10:00

Matrix: Solid

Date Received: 08/07/19 08:00

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			485964	08/07/19 12:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	485955	08/08/19 12:14	LCH	TAL BUF
Total/NA	Prep	3550C			486399	08/12/19 06:31	SMP	TAL BUF
Total/NA	Analysis	8270D		5	486943	08/14/19 18:26	PJQ	TAL BUF
Total/NA	Prep	3550C			486323	08/09/19 15:40	ATG	TAL BUF
Total/NA	Analysis	8082A		1	486385	08/12/19 03:23	W1T	TAL BUF
Total/NA	Prep	3050B			486782	08/14/19 09:36	NSW	TAL BUF
Total/NA	Analysis	6010C		1	487135	08/14/19 20:53	EMB	TAL BUF
Total/NA	Prep	3050B			486782	08/14/19 09:36	NSW	TAL BUF
Total/NA	Analysis	6010C		1	487420	08/15/19 12:44	EMB	TAL BUF
Total/NA	Prep	7471B			487471	08/16/19 13:11	BMB	TAL BUF
Total/NA	Analysis	7471B		1	487497	08/16/19 14:37	BMB	TAL BUF
Total/NA	Prep	9012B			486555	08/12/19 14:55	AJL	TAL BUF
Total/NA	Analysis	9012B		1	486586	08/12/19 16:22	MDL	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State Program	17-020	01-20-21
ANAB	Dept. of Defense ELAP	L2468	01-20-21
ANAB	DoD	L2468	01-20-21
ANAB	DOE	L2468.01	01-20-21
ANAB	ISO/IEC 17025	L2468	08-09-21
Arizona	State	AZ0708	08-11-20
Arizona	State Program	AZ0708	08-11-20
Arkansas DEQ	State Program	88-0691	06-17-20
California	State	2897	01-31-20
California	State Program	2897	01-31-20
Colorado	State Program	CA00044	08-31-19
Connecticut	State	PH-0691	06-30-21
Connecticut	State Program	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-20
Florida	NELAP	E87570	06-30-20
Hawaii	State	<cert No.>	01-29-20
Hawaii	State Program	N/A	01-29-20
Illinois	NELAP	200060	03-17-20 *
Illinois	NELAP	200060	03-17-20
Kansas	NELAP	E-10375	10-31-19
Louisiana	NELAP	30612	06-30-20
Maine	State Program	CA0004	04-14-20
Michigan	State	9947	01-29-20
Michigan	State Program	9947	01-31-20
New Hampshire	NELAP	2997	04-20-20
New York	NELAP	11666	04-01-20
Oregon	NELAP	4040	01-29-20
Oregon	NELAP	4040	01-29-20
Pennsylvania	NELAP	68-01272	03-31-20
Pennsylvania	NELAP	68-01272	03-31-20
Texas	NELAP	T104704399	05-31-20
Texas	NELAP	T104704399-19-13	05-31-20
US Fish & Wildlife	Federal	LE148388-0	07-31-20
US Fish & Wildlife	US Federal Programs	58448	07-31-20
USDA	Federal	P330-18-00239	01-17-21
USEPA UCMR	Federal	CA00044	12-31-20
Utah	NELAP	CA00044	02-29-20
Vermont	State Program	VT-4040	04-16-20
Virginia	NELAP	460278	03-14-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Buffalo

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Laboratory: Eurofins TestAmerica, Sacramento (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Virginia	NELAP	460278	03-14-20
Washington	State	C581	05-05-20
Washington	State Program	C581	05-05-20
West Virginia (DW)	State	9930C	12-31-19
West Virginia (DW)	State Program	9930C	12-31-19
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Buffalo

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157265-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-157265-1	VER-SB0-7 (1-1.5)	Solid	08/06/19 09:35	08/07/19 08:00	
480-157265-2	VER-SBO-5 (1-2)	Solid	08/06/19 09:10	08/07/19 08:00	
480-157265-3	VER-SBO-8 (1-2)	Solid	08/06/19 10:00	08/07/19 08:00	

Client Information		Lab PM Schove, John R		Carrier Tracking No(s) 480-133538-30078.3		COC No 480-133538-30078.3																		
Client Contact Mr. Scott Powlin		E-Mail: john.schove@testamericainc.com		Page Page 3 of 3																				
Company ARCADIS U.S. Inc.																								
Address One Lincoln Center 110 West Fayette St, Suite 300																								
City Syracuse																								
State, Zip. NY, 13202																								
Phone																								
Email scott.powlin@arcadis-us.com																								
Project Name National Grid - Albany Service Center																								
Site																								
Due Date Requested:		Analysis Requested																						
TAT Requested (days): STND																								
PO #																								
Purchase Order not required																								
WO #																								
Project # 48020651																								
SSOW#																								
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=organic/ BT=tissue, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	9012B - Cyanide, Total	6010C, 7471B	6082A, 8270D	PFC, IDA - PFAS, Standard List (21 Analytes)	8270D - 1,4 Dioxane	9012 ReactiveCN, 9034 Reactive	6010C, 7470A, 8270D	8260C - TCLP Volatiles	1010A - Flashpoint	8015D - PRO - DRO	8015D - GRO - GRO	Total Number of Containers	Special Instructions/Note:				
VER-SBG-7 (1-1.5')	8-6-19	8:35	G	Solid	X	X	N	N	N	N	N	N	N	N	N	N	N	N	PCBS					
VER-SBG-5 (1-2')	8-6-19	9:10	G	Solid	X	X	N	N	N	N	N	N	N	N	N	N	N	N	X					
VER-SBG-8 (1-3')	8-6-19	10:00	G	Solid	X	X	N	N	N	N	N	N	N	N	N	N	N	N						
<i>[Handwritten signature]</i>	8/6/19			Solid																				
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological																								
Deliverable Requested: I, II, III, IV, Other (specify)																								
Empty Kit Relinquished by:																								
Relinquished by <i>Karl Zaden</i>		Date/Time 8-6-19 / 1643	Company Arcadis		Relinquished by <i>Karl Zaden</i>		Date/Time 8/6/19 1700	Company Z-TA		Relinquished by <i>Karl Zaden</i>		Date/Time 8/6/19 1700	Company Z-TA		Relinquished by <i>Karl Zaden</i>		Date/Time 8/6/19 1700	Company Z-TA		Relinquished by <i>Karl Zaden</i>		Date/Time 8/6/19 1700	Company Z-TA	
Custody Seals Intact Δ Yes Δ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: <i># 31</i>		Method of Shipment:		Return To Client ☒		Disposal By Lab ☐		Archive For Months		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements:		Date/Time 8/6/19 1643		Company ETA				

Albany Chain of Custody Record #224

Eurofins TestAmerica, Buffalo
 10 Hazelwood Drive
 Amherst, NY 14228-2298
 Phone: 716-691-2600 Fax: 716-691-7991

eurofins Environmental Testing
 TestAmerica

Client Information Client Contact: Mr. Scott Powlin Company: ARCADIS U.S. Inc. Address: One Lincoln Center 110 West Fayette St, Suite 300 City: Syracuse State: NY, Zip: 13202 Phone: _____ Email: scott.powlin@arcadis-us.com Project Name: National Grid - Albany Service Center Site: _____		Lab PM: Schowe, John R E-Mail: john.schowe@testamericainc.com Phone: 516-223-5130 Sample: K.L.L.O.A. Carrier Tracking No(s): 480-133538-30078.3 Page 3 of 3 Job # _____																																																																																																																																			
Analysis Requested Due Date Requested: _____ TAT Requested (days): 5 PO #: _____ Purchase Order not required WO #: _____ Project #: 48020651 SOW#: _____																																																																																																																																					
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Chain of Custody Record

[illegible]

Therm. ID: 1815em Corr. Factor: ND

Ice ☒ Wet ☒ Gel ☐ Other ☐

Cooler Custody Seal: 1131057

Sample Custody Seal: ~

Cooler ID:

Temp Observed: 0.20C Corrected: 0.20C

From: Temp Blank ☒ Sample ☐ NCM Filled: Yes ☐ No ☐

Yes	No	NA
☒	☐	☐
Perchlorate has headspace? (Methods 314, 331, 6850)		
☒	☐	☐
Alkalinity has no headspace?		
☒	☐	☐
CoC is complete w/o discrepancies?		
☒	☐	☐
Samples received within holding time?		
☒	☐	☐
Sample preservatives verified?		
☒	☐	☐
Cooler compromised/tampered with?		
☒	☐	☐
Samples compromised/tampered with?		
☒	☐	☐
Samples w/o discrepancies?		
☒	☐	☐
Sample containers have legible labels?		
☒	☐	☐
Containers are not broken or leaking?		
☒	☐	☐
Sample date/times are provided.		
☒	☐	☐
Appropriate containers are used?		
☒	☐	☐
Sample bottles are completely filled?		
☒	☐	☐
Zero headspace?*		
☒	☐	☐
Multiphasic samples are not present?		
☒	☐	☐
Sample temp OK?		
☒	☐	☐
Sample out of temp?		

Initials: SO Date: 8/31/15

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Tracking #: 1034 8839 5981



480-157265 Field Sheet

Job:

1
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16
17

Environment Testing
TestAmerica



1131057

Custody
DATE 8/12/11
SIGNATURE

Seal
Paul J. Adams



Environment Testing
TestAmerica

1131057

Form # 155148-434 RIT EXP 09/19 **

CA-US SMF 95605

XH BLUA

TRK# 1034 8839 5981 0201

WED - 07 AUG 10:30A
PRIORITY OVERNIGHT

FedEx Express

REF: NY PFC (916) 979-6600

WEST SACRAMENTO CA 95605

TESTAMERICA-W. SACRAMENTO
880 RIVERSIDE PKWY

SAMPLE RECEIVING

TO

ORIGIN ID: SCHA (518) 438-8140
TIM KNOLLMEYER
TESTAMERICA LAB INC
25 KRAFT AVE
ALBANY, NY 12205
UNITED STATES US

SHIP DATE: 06AUG19
ACTWGT: 67.00 LB
CAD: 0439821/CAFE3211
DIMS: 26X15X14 IN
BILL THIRD PARTY

ES1617/0251/1047

020200

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-157265-1

Login Number: 157265

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	FROZEN 8/7/19 1200
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	arcadis
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-157265-1

Login Number: 157265

List Number: 2

Creator: Thompson, Sarah W

List Source: Eurofins TestAmerica, Sacramento

List Creation: 08/07/19 12:24 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1131057
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-157265-1

Login Number: 157265

List Source: Eurofins TestAmerica, Sacramento

List Number: 3

Creator: Kintaudi, Pauline W

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	993084
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-157382-1

Client Project/Site: National Grid - Albany Service Center

For:

ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Scott Powlin



Authorized for release by:

8/21/2019 3:36:00 PM

Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838
john.schove@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Job ID: 480-157382-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-157382-1

Receipt

The samples were received on 8/8/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

Receipt Exceptions

The following samples were submitted for analysis; however, they were not listed on the Chain-of-Custody (COC): VER-CONC-3-(3) (480-157382-12) and VER-CONC-5-(3) (480-157382-13)

GC/MS VOA

Method(s) 8260C: The following samples were diluted due to the nature of the TCLP solid sample matrix: VER-COMP-C3 (480-157382-1), VER-CONC-3-DISCRETE (480-157382-2), VER-COMP-C1 (480-157382-3), VER-CONC-7-DISCRETE (480-157382-4) and (LB 480-486999/1-A). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-487429 recovered above the upper control limit for 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: VER-COMP-C3 (480-157382-1), VER-CONC-3-DISCRETE (480-157382-2), VER-COMP-C1 (480-157382-3) and VER-CONC-7-DISCRETE (480-157382-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-COMP-C3

Lab Sample ID: 480-157382-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0058	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.25	J	1.0	0.10	mg/L	1		6010C	TCLP
Chromium	0.017	J	0.020	0.010	mg/L	1		6010C	TCLP
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA

Client Sample ID: VER-CONC-3-DISCRETE

Lab Sample ID: 480-157382-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0093	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.39	J	1.0	0.10	mg/L	1		6010C	TCLP
Chromium	0.058		0.020	0.010	mg/L	1		6010C	TCLP
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA

Client Sample ID: VER-COMP-C1

Lab Sample ID: 480-157382-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.012	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.19	J	1.0	0.10	mg/L	1		6010C	TCLP
Chromium	0.028		0.020	0.010	mg/L	1		6010C	TCLP
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA

Client Sample ID: VER-CONC-7-DISCRETE

Lab Sample ID: 480-157382-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0065	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.15	J	1.0	0.10	mg/L	1		6010C	TCLP
Chromium	0.033		0.020	0.010	mg/L	1		6010C	TCLP
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA

Client Sample ID: VER-CONC-7-(9)

Lab Sample ID: 480-157382-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	0.094	J	0.20	0.092	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: VER-CONC-2-(9)

Lab Sample ID: 480-157382-6

No Detections.

Client Sample ID: VER-CONC-1-(9)

Lab Sample ID: 480-157382-7

No Detections.

Client Sample ID: VER-CONC-6-(3)

Lab Sample ID: 480-157382-8

No Detections.

Client Sample ID: VER-CONC-7-(3)

Lab Sample ID: 480-157382-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	0.12	J	0.21	0.099	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: VER-CONC-2-(3)

Lab Sample ID: 480-157382-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-CONC-1-(3)

Lab Sample ID: 480-157382-11

☐ No Detections.

Client Sample ID: VER-CONC-3-(3)

Lab Sample ID: 480-157382-12

☐ No Detections.

Client Sample ID: VER-CONC-5-(3)

Lab Sample ID: 480-157382-13

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-COMP-C3

Lab Sample ID: 480-157382-1

Date Collected: 08/07/19 10:00

Matrix: Solid

Date Received: 08/08/19 08:00

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.010	0.0041	mg/L			08/15/19 15:38	10
Carbon tetrachloride	<0.010		0.010	0.0027	mg/L			08/15/19 15:38	10
Chlorobenzene	<0.010		0.010	0.0075	mg/L			08/15/19 15:38	10
Chloroform	<0.010		0.010	0.0034	mg/L			08/15/19 15:38	10
1,2-Dichloroethane	<0.010		0.010	0.0021	mg/L			08/15/19 15:38	10
1,1-Dichloroethene	<0.010		0.010	0.0029	mg/L			08/15/19 15:38	10
2-Butanone (MEK)	<0.050		0.050	0.013	mg/L			08/15/19 15:38	10
Tetrachloroethene	<0.010		0.010	0.0036	mg/L			08/15/19 15:38	10
Trichloroethene	<0.010		0.010	0.0046	mg/L			08/15/19 15:38	10
Vinyl chloride	<0.010		0.010	0.0090	mg/L			08/15/19 15:38	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		77 - 120		08/15/19 15:38	10
Toluene-d8 (Surr)	97		80 - 120		08/15/19 15:38	10
4-Bromofluorobenzene (Surr)	97		73 - 120		08/15/19 15:38	10
Dibromofluoromethane (Surr)	115		75 - 123		08/15/19 15:38	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.040		0.040	0.0018	mg/L		08/15/19 14:55	08/16/19 15:30	1
2,4-Dinitrotoluene	<0.020		0.020	0.0017	mg/L		08/15/19 14:55	08/16/19 15:30	1
Hexachlorobenzene	<0.020		0.020	0.0020	mg/L		08/15/19 14:55	08/16/19 15:30	1
Hexachlorobutadiene	<0.020		0.020	0.0027	mg/L		08/15/19 14:55	08/16/19 15:30	1
Hexachloroethane	<0.020		0.020	0.0023	mg/L		08/15/19 14:55	08/16/19 15:30	1
3-Methylphenol	<0.040		0.040	0.0016	mg/L		08/15/19 14:55	08/16/19 15:30	1
2-Methylphenol	<0.020		0.020	0.0016	mg/L		08/15/19 14:55	08/16/19 15:30	1
4-Methylphenol	<0.040		0.040	0.0014	mg/L		08/15/19 14:55	08/16/19 15:30	1
Nitrobenzene	<0.020		0.020	0.0011	mg/L		08/15/19 14:55	08/16/19 15:30	1
Pentachlorophenol	<0.040		0.040	0.0088	mg/L		08/15/19 14:55	08/16/19 15:30	1
Pyridine	<0.10		0.10	0.0016	mg/L		08/15/19 14:55	08/16/19 15:30	1
2,4,5-Trichlorophenol	<0.020		0.020	0.0019	mg/L		08/15/19 14:55	08/16/19 15:30	1
2,4,6-Trichlorophenol	<0.020		0.020	0.0024	mg/L		08/15/19 14:55	08/16/19 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	101		41 - 120	08/15/19 14:55	08/16/19 15:30	1
2-Fluorobiphenyl	97		48 - 120	08/15/19 14:55	08/16/19 15:30	1
2-Fluorophenol (Surr)	52		35 - 120	08/15/19 14:55	08/16/19 15:30	1
Nitrobenzene-d5 (Surr)	87		46 - 120	08/15/19 14:55	08/16/19 15:30	1
p-Terphenyl-d14 (Surr)	110		59 - 136	08/15/19 14:55	08/16/19 15:30	1
Phenol-d5 (Surr)	35		22 - 120	08/15/19 14:55	08/16/19 15:30	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0058	J	0.015	0.0056	mg/L		08/15/19 10:29	08/16/19 11:22	1
Barium	0.25	J	1.0	0.10	mg/L		08/15/19 10:29	08/16/19 11:22	1
Cadmium	<0.0020		0.0020	0.00050	mg/L		08/15/19 10:29	08/16/19 11:22	1
Chromium	0.017	J	0.020	0.010	mg/L		08/15/19 10:29	08/16/19 11:22	1
Lead	<0.020		0.020	0.0030	mg/L		08/15/19 10:29	08/16/19 11:22	1
Selenium	<0.025		0.025	0.0087	mg/L		08/15/19 10:29	08/16/19 11:22	1
Silver	<0.0060		0.0060	0.0017	mg/L		08/15/19 10:29	08/16/19 11:22	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-COMP-C3

Date Collected: 08/07/19 10:00

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-1

Matrix: Solid

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00012	mg/L	-	08/15/19 12:07	08/15/19 16:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	<10		10	10	mg/Kg	-	08/14/19 13:41	08/15/19 12:50	1
Sulfide, Reactive	<10		10	10	mg/Kg	-	08/14/19 13:41	08/15/19 11:56	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F	-		08/13/19 16:50	1

Client Sample ID: VER-CONC-3-DISCRETE

Date Collected: 08/07/19 11:00

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-2

Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.010	0.0041	mg/L	-		08/15/19 16:02	10
Carbon tetrachloride	<0.010		0.010	0.0027	mg/L	-		08/15/19 16:02	10
Chlorobenzene	<0.010		0.010	0.0075	mg/L	-		08/15/19 16:02	10
Chloroform	<0.010		0.010	0.0034	mg/L	-		08/15/19 16:02	10
1,2-Dichloroethane	<0.010		0.010	0.0021	mg/L	-		08/15/19 16:02	10
1,1-Dichloroethene	<0.010		0.010	0.0029	mg/L	-		08/15/19 16:02	10
2-Butanone (MEK)	<0.050		0.050	0.013	mg/L	-		08/15/19 16:02	10
Tetrachloroethene	<0.010		0.010	0.0036	mg/L	-		08/15/19 16:02	10
Trichloroethene	<0.010		0.010	0.0046	mg/L	-		08/15/19 16:02	10
Vinyl chloride	<0.010		0.010	0.0090	mg/L	-		08/15/19 16:02	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		77 - 120		08/15/19 16:02	10
Toluene-d8 (Surr)	101		80 - 120		08/15/19 16:02	10
4-Bromofluorobenzene (Surr)	99		73 - 120		08/15/19 16:02	10
Dibromofluoromethane (Surr)	113		75 - 123		08/15/19 16:02	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.040		0.040	0.0018	mg/L	-	08/15/19 14:55	08/16/19 15:54	1
2,4-Dinitrotoluene	<0.020		0.020	0.0017	mg/L	-	08/15/19 14:55	08/16/19 15:54	1
Hexachlorobenzene	<0.020		0.020	0.0020	mg/L	-	08/15/19 14:55	08/16/19 15:54	1
Hexachlorobutadiene	<0.020		0.020	0.0027	mg/L	-	08/15/19 14:55	08/16/19 15:54	1
Hexachloroethane	<0.020		0.020	0.0023	mg/L	-	08/15/19 14:55	08/16/19 15:54	1
3-Methylphenol	<0.040		0.040	0.0016	mg/L	-	08/15/19 14:55	08/16/19 15:54	1
2-Methylphenol	<0.020		0.020	0.0016	mg/L	-	08/15/19 14:55	08/16/19 15:54	1
4-Methylphenol	<0.040		0.040	0.0014	mg/L	-	08/15/19 14:55	08/16/19 15:54	1
Nitrobenzene	<0.020		0.020	0.0011	mg/L	-	08/15/19 14:55	08/16/19 15:54	1
Pentachlorophenol	<0.040		0.040	0.0088	mg/L	-	08/15/19 14:55	08/16/19 15:54	1
Pyridine	<0.10		0.10	0.0016	mg/L	-	08/15/19 14:55	08/16/19 15:54	1
2,4,5-Trichlorophenol	<0.020		0.020	0.0019	mg/L	-	08/15/19 14:55	08/16/19 15:54	1
2,4,6-Trichlorophenol	<0.020		0.020	0.0024	mg/L	-	08/15/19 14:55	08/16/19 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		41 - 120	08/15/19 14:55	08/16/19 15:54	1
2-Fluorobiphenyl	92		48 - 120	08/15/19 14:55	08/16/19 15:54	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-CONC-3-DISCRETE

Lab Sample ID: 480-157382-2

Date Collected: 08/07/19 11:00

Matrix: Solid

Date Received: 08/08/19 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	49		35 - 120	08/15/19 14:55	08/16/19 15:54	1
Nitrobenzene-d5 (Surr)	87		46 - 120	08/15/19 14:55	08/16/19 15:54	1
p-Terphenyl-d14 (Surr)	96		59 - 136	08/15/19 14:55	08/16/19 15:54	1
Phenol-d5 (Surr)	31		22 - 120	08/15/19 14:55	08/16/19 15:54	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0093	J	0.015	0.0056	mg/L		08/15/19 10:29	08/16/19 11:40	1
Barium	0.39	J	1.0	0.10	mg/L		08/15/19 10:29	08/16/19 11:40	1
Cadmium	<0.0020		0.0020	0.00050	mg/L		08/15/19 10:29	08/16/19 11:40	1
Chromium	0.058		0.020	0.010	mg/L		08/15/19 10:29	08/16/19 11:40	1
Lead	<0.020		0.020	0.0030	mg/L		08/15/19 10:29	08/16/19 11:40	1
Selenium	<0.025		0.025	0.0087	mg/L		08/15/19 10:29	08/16/19 11:40	1
Silver	<0.0060		0.0060	0.0017	mg/L		08/15/19 10:29	08/16/19 11:40	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00012	mg/L		08/15/19 12:07	08/15/19 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	<10		10	10	mg/Kg		08/14/19 13:41	08/15/19 12:50	1
Sulfide, Reactive	<10		10	10	mg/Kg		08/14/19 13:41	08/15/19 11:56	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			08/13/19 16:50	1

Client Sample ID: VER-COMP-C1

Lab Sample ID: 480-157382-3

Date Collected: 08/06/19 12:20

Matrix: Solid

Date Received: 08/08/19 08:00

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.010	0.0041	mg/L			08/15/19 16:26	10
Carbon tetrachloride	<0.010		0.010	0.0027	mg/L			08/15/19 16:26	10
Chlorobenzene	<0.010		0.010	0.0075	mg/L			08/15/19 16:26	10
Chloroform	<0.010		0.010	0.0034	mg/L			08/15/19 16:26	10
1,2-Dichloroethane	<0.010		0.010	0.0021	mg/L			08/15/19 16:26	10
1,1-Dichloroethene	<0.010		0.010	0.0029	mg/L			08/15/19 16:26	10
2-Butanone (MEK)	<0.050		0.050	0.013	mg/L			08/15/19 16:26	10
Tetrachloroethene	<0.010		0.010	0.0036	mg/L			08/15/19 16:26	10
Trichloroethene	<0.010		0.010	0.0046	mg/L			08/15/19 16:26	10
Vinyl chloride	<0.010		0.010	0.0090	mg/L			08/15/19 16:26	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		08/15/19 16:26	10
Toluene-d8 (Surr)	102		80 - 120		08/15/19 16:26	10
4-Bromofluorobenzene (Surr)	99		73 - 120		08/15/19 16:26	10
Dibromofluoromethane (Surr)	109		75 - 123		08/15/19 16:26	10

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-COMP-C1

Lab Sample ID: 480-157382-3

Date Collected: 08/06/19 12:20

Matrix: Solid

Date Received: 08/08/19 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.040		0.040	0.0018	mg/L		08/15/19 14:55	08/16/19 16:19	1
2,4-Dinitrotoluene	<0.020		0.020	0.0017	mg/L		08/15/19 14:55	08/16/19 16:19	1
Hexachlorobenzene	<0.020		0.020	0.0020	mg/L		08/15/19 14:55	08/16/19 16:19	1
Hexachlorobutadiene	<0.020		0.020	0.0027	mg/L		08/15/19 14:55	08/16/19 16:19	1
Hexachloroethane	<0.020		0.020	0.0023	mg/L		08/15/19 14:55	08/16/19 16:19	1
3-Methylphenol	<0.040		0.040	0.0016	mg/L		08/15/19 14:55	08/16/19 16:19	1
2-Methylphenol	<0.020		0.020	0.0016	mg/L		08/15/19 14:55	08/16/19 16:19	1
4-Methylphenol	<0.040		0.040	0.0014	mg/L		08/15/19 14:55	08/16/19 16:19	1
Nitrobenzene	<0.020		0.020	0.0011	mg/L		08/15/19 14:55	08/16/19 16:19	1
Pentachlorophenol	<0.040		0.040	0.0088	mg/L		08/15/19 14:55	08/16/19 16:19	1
Pyridine	<0.10		0.10	0.0016	mg/L		08/15/19 14:55	08/16/19 16:19	1
2,4,5-Trichlorophenol	<0.020		0.020	0.0019	mg/L		08/15/19 14:55	08/16/19 16:19	1
2,4,6-Trichlorophenol	<0.020		0.020	0.0024	mg/L		08/15/19 14:55	08/16/19 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		41 - 120	08/15/19 14:55	08/16/19 16:19	1
2-Fluorobiphenyl	104		48 - 120	08/15/19 14:55	08/16/19 16:19	1
2-Fluorophenol (Surr)	55		35 - 120	08/15/19 14:55	08/16/19 16:19	1
Nitrobenzene-d5 (Surr)	94		46 - 120	08/15/19 14:55	08/16/19 16:19	1
p-Terphenyl-d14 (Surr)	108		59 - 136	08/15/19 14:55	08/16/19 16:19	1
Phenol-d5 (Surr)	34		22 - 120	08/15/19 14:55	08/16/19 16:19	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012	J	0.015	0.0056	mg/L		08/15/19 10:29	08/16/19 11:55	1
Barium	0.19	J	1.0	0.10	mg/L		08/15/19 10:29	08/16/19 11:55	1
Cadmium	<0.0020		0.0020	0.00050	mg/L		08/15/19 10:29	08/16/19 11:55	1
Chromium	0.028		0.020	0.010	mg/L		08/15/19 10:29	08/16/19 11:55	1
Lead	<0.020		0.020	0.0030	mg/L		08/15/19 10:29	08/16/19 11:55	1
Selenium	<0.025		0.025	0.0087	mg/L		08/15/19 10:29	08/16/19 11:55	1
Silver	<0.0060		0.0060	0.0017	mg/L		08/15/19 10:29	08/16/19 11:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00012	mg/L		08/15/19 12:07	08/15/19 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	<10		10	10	mg/Kg		08/14/19 13:41	08/15/19 12:50	1
Sulfide, Reactive	<10		10	10	mg/Kg		08/14/19 13:41	08/15/19 11:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			08/15/19 16:25	1

Client Sample ID: VER-CONC-7-DISCRETE

Lab Sample ID: 480-157382-4

Date Collected: 08/07/19 15:00

Matrix: Solid

Date Received: 08/08/19 08:00

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.010	0.0041	mg/L			08/15/19 16:50	10
Carbon tetrachloride	<0.010		0.010	0.0027	mg/L			08/15/19 16:50	10

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-CONC-7-DISCRETE

Lab Sample ID: 480-157382-4

Date Collected: 08/07/19 15:00

Matrix: Solid

Date Received: 08/08/19 08:00

Method: 8260C - TCLP Volatiles - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<0.010		0.010	0.0075	mg/L			08/15/19 16:50	10
Chloroform	<0.010		0.010	0.0034	mg/L			08/15/19 16:50	10
1,2-Dichloroethane	<0.010		0.010	0.0021	mg/L			08/15/19 16:50	10
1,1-Dichloroethene	<0.010		0.010	0.0029	mg/L			08/15/19 16:50	10
2-Butanone (MEK)	<0.050		0.050	0.013	mg/L			08/15/19 16:50	10
Tetrachloroethene	<0.010		0.010	0.0036	mg/L			08/15/19 16:50	10
Trichloroethene	<0.010		0.010	0.0046	mg/L			08/15/19 16:50	10
Vinyl chloride	<0.010		0.010	0.0090	mg/L			08/15/19 16:50	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120					08/15/19 16:50	10
Toluene-d8 (Surr)	103		80 - 120					08/15/19 16:50	10
4-Bromofluorobenzene (Surr)	98		73 - 120					08/15/19 16:50	10
Dibromofluoromethane (Surr)	107		75 - 123					08/15/19 16:50	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.040		0.040	0.0018	mg/L		08/15/19 14:55	08/16/19 16:43	1
2,4-Dinitrotoluene	<0.020		0.020	0.0017	mg/L		08/15/19 14:55	08/16/19 16:43	1
Hexachlorobenzene	<0.020		0.020	0.0020	mg/L		08/15/19 14:55	08/16/19 16:43	1
Hexachlorobutadiene	<0.020		0.020	0.0027	mg/L		08/15/19 14:55	08/16/19 16:43	1
Hexachloroethane	<0.020		0.020	0.0023	mg/L		08/15/19 14:55	08/16/19 16:43	1
3-Methylphenol	<0.040		0.040	0.0016	mg/L		08/15/19 14:55	08/16/19 16:43	1
2-Methylphenol	<0.020		0.020	0.0016	mg/L		08/15/19 14:55	08/16/19 16:43	1
4-Methylphenol	<0.040		0.040	0.0014	mg/L		08/15/19 14:55	08/16/19 16:43	1
Nitrobenzene	<0.020		0.020	0.0011	mg/L		08/15/19 14:55	08/16/19 16:43	1
Pentachlorophenol	<0.040		0.040	0.0088	mg/L		08/15/19 14:55	08/16/19 16:43	1
Pyridine	<0.10		0.10	0.0016	mg/L		08/15/19 14:55	08/16/19 16:43	1
2,4,5-Trichlorophenol	<0.020		0.020	0.0019	mg/L		08/15/19 14:55	08/16/19 16:43	1
2,4,6-Trichlorophenol	<0.020		0.020	0.0024	mg/L		08/15/19 14:55	08/16/19 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		41 - 120				08/15/19 14:55	08/16/19 16:43	1
2-Fluorobiphenyl	100		48 - 120				08/15/19 14:55	08/16/19 16:43	1
2-Fluorophenol (Surr)	50		35 - 120				08/15/19 14:55	08/16/19 16:43	1
Nitrobenzene-d5 (Surr)	100		46 - 120				08/15/19 14:55	08/16/19 16:43	1
p-Terphenyl-d14 (Surr)	112		59 - 136				08/15/19 14:55	08/16/19 16:43	1
Phenol-d5 (Surr)	34		22 - 120				08/15/19 14:55	08/16/19 16:43	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0065	J	0.015	0.0056	mg/L		08/15/19 10:29	08/16/19 10:51	1
Barium	0.15	J	1.0	0.10	mg/L		08/15/19 10:29	08/16/19 10:51	1
Cadmium	<0.0020		0.0020	0.00050	mg/L		08/15/19 10:29	08/16/19 10:51	1
Chromium	0.033		0.020	0.010	mg/L		08/15/19 10:29	08/16/19 10:51	1
Lead	<0.020		0.020	0.0030	mg/L		08/15/19 10:29	08/16/19 10:51	1
Selenium	<0.025		0.025	0.0087	mg/L		08/15/19 10:29	08/16/19 10:51	1
Silver	<0.0060		0.0060	0.0017	mg/L		08/15/19 10:29	08/16/19 10:51	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-CONC-7-DISCRETE

Lab Sample ID: 480-157382-4

Date Collected: 08/07/19 15:00

Matrix: Solid

Date Received: 08/08/19 08:00

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00012	mg/L	-	08/15/19 12:07	08/15/19 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	<10		10	10	mg/Kg	-	08/14/19 13:41	08/15/19 12:50	1
Sulfide, Reactive	<10		10	10	mg/Kg	-	08/14/19 13:41	08/15/19 11:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F	-		08/15/19 16:25	1

Client Sample ID: VER-CONC-7-(9)

Lab Sample ID: 480-157382-5

Date Collected: 08/07/19 14:50

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 96.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.20		0.20	0.038	mg/Kg	✱	08/12/19 16:33	08/14/19 22:30	1
PCB-1221	<0.20		0.20	0.038	mg/Kg	✱	08/12/19 16:33	08/14/19 22:30	1
PCB-1232	<0.20		0.20	0.038	mg/Kg	✱	08/12/19 16:33	08/14/19 22:30	1
PCB-1242	<0.20		0.20	0.038	mg/Kg	✱	08/12/19 16:33	08/14/19 22:30	1
PCB-1248	<0.20		0.20	0.038	mg/Kg	✱	08/12/19 16:33	08/14/19 22:30	1
PCB-1254	<0.20		0.20	0.092	mg/Kg	✱	08/12/19 16:33	08/14/19 22:30	1
PCB-1260	0.094	J	0.20	0.092	mg/Kg	✱	08/12/19 16:33	08/14/19 22:30	1
PCB-1262	<0.20		0.20	0.092	mg/Kg	✱	08/12/19 16:33	08/14/19 22:30	1
PCB-1268	<0.20		0.20	0.092	mg/Kg	✱	08/12/19 16:33	08/14/19 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	107		60 - 154	08/12/19 16:33	08/14/19 22:30	1
Tetrachloro-m-xylene	86		60 - 154	08/12/19 16:33	08/14/19 22:30	1
DCB Decachlorobiphenyl	128		65 - 174	08/12/19 16:33	08/14/19 22:30	1
DCB Decachlorobiphenyl	115		65 - 174	08/12/19 16:33	08/14/19 22:30	1

Client Sample ID: VER-CONC-2-(9)

Lab Sample ID: 480-157382-6

Date Collected: 08/07/19 14:30

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 91.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.20		0.20	0.039	mg/Kg	✱	08/12/19 16:33	08/14/19 22:42	1
PCB-1221	<0.20		0.20	0.039	mg/Kg	✱	08/12/19 16:33	08/14/19 22:42	1
PCB-1232	<0.20		0.20	0.039	mg/Kg	✱	08/12/19 16:33	08/14/19 22:42	1
PCB-1242	<0.20		0.20	0.039	mg/Kg	✱	08/12/19 16:33	08/14/19 22:42	1
PCB-1248	<0.20		0.20	0.039	mg/Kg	✱	08/12/19 16:33	08/14/19 22:42	1
PCB-1254	<0.20		0.20	0.093	mg/Kg	✱	08/12/19 16:33	08/14/19 22:42	1
PCB-1260	<0.20		0.20	0.093	mg/Kg	✱	08/12/19 16:33	08/14/19 22:42	1
PCB-1262	<0.20		0.20	0.093	mg/Kg	✱	08/12/19 16:33	08/14/19 22:42	1
PCB-1268	<0.20		0.20	0.093	mg/Kg	✱	08/12/19 16:33	08/14/19 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		60 - 154	08/12/19 16:33	08/14/19 22:42	1
Tetrachloro-m-xylene	74		60 - 154	08/12/19 16:33	08/14/19 22:42	1
DCB Decachlorobiphenyl	106		65 - 174	08/12/19 16:33	08/14/19 22:42	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-CONC-2-(9)

Date Collected: 08/07/19 14:30

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-6

Matrix: Solid

Percent Solids: 91.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		65 - 174	08/12/19 16:33	08/14/19 22:42	1

Client Sample ID: VER-CONC-1-(9)

Date Collected: 08/07/19 14:10

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-7

Matrix: Solid

Percent Solids: 96.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17	0.034	mg/Kg	☼	08/12/19 16:33	08/14/19 22:55	1
PCB-1221	<0.17		0.17	0.034	mg/Kg	☼	08/12/19 16:33	08/14/19 22:55	1
PCB-1232	<0.17		0.17	0.034	mg/Kg	☼	08/12/19 16:33	08/14/19 22:55	1
PCB-1242	<0.17		0.17	0.034	mg/Kg	☼	08/12/19 16:33	08/14/19 22:55	1
PCB-1248	<0.17		0.17	0.034	mg/Kg	☼	08/12/19 16:33	08/14/19 22:55	1
PCB-1254	<0.17		0.17	0.082	mg/Kg	☼	08/12/19 16:33	08/14/19 22:55	1
PCB-1260	<0.17		0.17	0.082	mg/Kg	☼	08/12/19 16:33	08/14/19 22:55	1
PCB-1262	<0.17		0.17	0.082	mg/Kg	☼	08/12/19 16:33	08/14/19 22:55	1
PCB-1268	<0.17		0.17	0.082	mg/Kg	☼	08/12/19 16:33	08/14/19 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	114		60 - 154	08/12/19 16:33	08/14/19 22:55	1
Tetrachloro-m-xylene	93		60 - 154	08/12/19 16:33	08/14/19 22:55	1
DCB Decachlorobiphenyl	141		65 - 174	08/12/19 16:33	08/14/19 22:55	1
DCB Decachlorobiphenyl	124		65 - 174	08/12/19 16:33	08/14/19 22:55	1

Client Sample ID: VER-CONC-6-(3)

Date Collected: 08/07/19 10:15

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-8

Matrix: Solid

Percent Solids: 96.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.25		0.25	0.049	mg/Kg	☼	08/12/19 16:33	08/14/19 23:07	1
PCB-1221	<0.25		0.25	0.049	mg/Kg	☼	08/12/19 16:33	08/14/19 23:07	1
PCB-1232	<0.25		0.25	0.049	mg/Kg	☼	08/12/19 16:33	08/14/19 23:07	1
PCB-1242	<0.25		0.25	0.049	mg/Kg	☼	08/12/19 16:33	08/14/19 23:07	1
PCB-1248	<0.25		0.25	0.049	mg/Kg	☼	08/12/19 16:33	08/14/19 23:07	1
PCB-1254	<0.25		0.25	0.12	mg/Kg	☼	08/12/19 16:33	08/14/19 23:07	1
PCB-1260	<0.25		0.25	0.12	mg/Kg	☼	08/12/19 16:33	08/14/19 23:07	1
PCB-1262	<0.25		0.25	0.12	mg/Kg	☼	08/12/19 16:33	08/14/19 23:07	1
PCB-1268	<0.25		0.25	0.12	mg/Kg	☼	08/12/19 16:33	08/14/19 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	110		60 - 154	08/12/19 16:33	08/14/19 23:07	1
Tetrachloro-m-xylene	89		60 - 154	08/12/19 16:33	08/14/19 23:07	1
DCB Decachlorobiphenyl	126		65 - 174	08/12/19 16:33	08/14/19 23:07	1
DCB Decachlorobiphenyl	127		65 - 174	08/12/19 16:33	08/14/19 23:07	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-CONC-7-(3)

Lab Sample ID: 480-157382-9

Date Collected: 08/07/19 14:00

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 97.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.21		0.21	0.041	mg/Kg	☼	08/12/19 16:33	08/14/19 23:19	1
PCB-1221	<0.21		0.21	0.041	mg/Kg	☼	08/12/19 16:33	08/14/19 23:19	1
PCB-1232	<0.21		0.21	0.041	mg/Kg	☼	08/12/19 16:33	08/14/19 23:19	1
PCB-1242	<0.21		0.21	0.041	mg/Kg	☼	08/12/19 16:33	08/14/19 23:19	1
PCB-1248	<0.21		0.21	0.041	mg/Kg	☼	08/12/19 16:33	08/14/19 23:19	1
PCB-1254	<0.21		0.21	0.099	mg/Kg	☼	08/12/19 16:33	08/14/19 23:19	1
PCB-1260	0.12	J	0.21	0.099	mg/Kg	☼	08/12/19 16:33	08/14/19 23:19	1
PCB-1262	<0.21		0.21	0.099	mg/Kg	☼	08/12/19 16:33	08/14/19 23:19	1
PCB-1268	<0.21		0.21	0.099	mg/Kg	☼	08/12/19 16:33	08/14/19 23:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		60 - 154	08/12/19 16:33	08/14/19 23:19	1
Tetrachloro-m-xylene	59	X	60 - 154	08/12/19 16:33	08/14/19 23:19	1
DCB Decachlorobiphenyl	77		65 - 174	08/12/19 16:33	08/14/19 23:19	1
DCB Decachlorobiphenyl	78		65 - 174	08/12/19 16:33	08/14/19 23:19	1

Client Sample ID: VER-CONC-2-(3)

Lab Sample ID: 480-157382-10

Date Collected: 08/06/19 13:45

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 96.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18	0.036	mg/Kg	☼	08/12/19 16:33	08/14/19 23:32	1
PCB-1221	<0.18		0.18	0.036	mg/Kg	☼	08/12/19 16:33	08/14/19 23:32	1
PCB-1232	<0.18		0.18	0.036	mg/Kg	☼	08/12/19 16:33	08/14/19 23:32	1
PCB-1242	<0.18		0.18	0.036	mg/Kg	☼	08/12/19 16:33	08/14/19 23:32	1
PCB-1248	<0.18		0.18	0.036	mg/Kg	☼	08/12/19 16:33	08/14/19 23:32	1
PCB-1254	<0.18		0.18	0.085	mg/Kg	☼	08/12/19 16:33	08/14/19 23:32	1
PCB-1260	<0.18		0.18	0.085	mg/Kg	☼	08/12/19 16:33	08/14/19 23:32	1
PCB-1262	<0.18		0.18	0.085	mg/Kg	☼	08/12/19 16:33	08/14/19 23:32	1
PCB-1268	<0.18		0.18	0.085	mg/Kg	☼	08/12/19 16:33	08/14/19 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		60 - 154	08/12/19 16:33	08/14/19 23:32	1
Tetrachloro-m-xylene	92		60 - 154	08/12/19 16:33	08/14/19 23:32	1
DCB Decachlorobiphenyl	155		65 - 174	08/12/19 16:33	08/14/19 23:32	1
DCB Decachlorobiphenyl	135		65 - 174	08/12/19 16:33	08/14/19 23:32	1

Client Sample ID: VER-CONC-1-(3)

Lab Sample ID: 480-157382-11

Date Collected: 08/06/19 12:10

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 96.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.22		0.22	0.043	mg/Kg	☼	08/12/19 16:33	08/14/19 23:44	1
PCB-1221	<0.22		0.22	0.043	mg/Kg	☼	08/12/19 16:33	08/14/19 23:44	1
PCB-1232	<0.22		0.22	0.043	mg/Kg	☼	08/12/19 16:33	08/14/19 23:44	1
PCB-1242	<0.22		0.22	0.043	mg/Kg	☼	08/12/19 16:33	08/14/19 23:44	1
PCB-1248	<0.22		0.22	0.043	mg/Kg	☼	08/12/19 16:33	08/14/19 23:44	1
PCB-1254	<0.22		0.22	0.10	mg/Kg	☼	08/12/19 16:33	08/14/19 23:44	1
PCB-1260	<0.22		0.22	0.10	mg/Kg	☼	08/12/19 16:33	08/14/19 23:44	1

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-CONC-1-(3)

Date Collected: 08/06/19 12:10

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-11

Matrix: Solid

Percent Solids: 96.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1262	<0.22		0.22	0.10	mg/Kg	☼	08/12/19 16:33	08/14/19 23:44	1
PCB-1268	<0.22		0.22	0.10	mg/Kg	☼	08/12/19 16:33	08/14/19 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	111		60 - 154				08/12/19 16:33	08/14/19 23:44	1
Tetrachloro-m-xylene	91		60 - 154				08/12/19 16:33	08/14/19 23:44	1
DCB Decachlorobiphenyl	143		65 - 174				08/12/19 16:33	08/14/19 23:44	1
DCB Decachlorobiphenyl	129		65 - 174				08/12/19 16:33	08/14/19 23:44	1

Client Sample ID: VER-CONC-3-(3)

Date Collected: 08/06/19 14:00

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-12

Matrix: Solid

Percent Solids: 96.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.23		0.23	0.046	mg/Kg	☼	08/12/19 16:33	08/14/19 23:57	1
PCB-1221	<0.23		0.23	0.046	mg/Kg	☼	08/12/19 16:33	08/14/19 23:57	1
PCB-1232	<0.23		0.23	0.046	mg/Kg	☼	08/12/19 16:33	08/14/19 23:57	1
PCB-1242	<0.23		0.23	0.046	mg/Kg	☼	08/12/19 16:33	08/14/19 23:57	1
PCB-1248	<0.23		0.23	0.046	mg/Kg	☼	08/12/19 16:33	08/14/19 23:57	1
PCB-1254	<0.23		0.23	0.11	mg/Kg	☼	08/12/19 16:33	08/14/19 23:57	1
PCB-1260	<0.23		0.23	0.11	mg/Kg	☼	08/12/19 16:33	08/14/19 23:57	1
PCB-1262	<0.23		0.23	0.11	mg/Kg	☼	08/12/19 16:33	08/14/19 23:57	1
PCB-1268	<0.23		0.23	0.11	mg/Kg	☼	08/12/19 16:33	08/14/19 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		60 - 154				08/12/19 16:33	08/14/19 23:57	1
Tetrachloro-m-xylene	73		60 - 154				08/12/19 16:33	08/14/19 23:57	1
DCB Decachlorobiphenyl	104		65 - 174				08/12/19 16:33	08/14/19 23:57	1
DCB Decachlorobiphenyl	101		65 - 174				08/12/19 16:33	08/14/19 23:57	1

Client Sample ID: VER-CONC-5-(3)

Date Collected: 08/07/19 09:55

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-13

Matrix: Solid

Percent Solids: 97.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18	0.035	mg/Kg	☼	08/12/19 16:33	08/15/19 00:09	1
PCB-1221	<0.18		0.18	0.035	mg/Kg	☼	08/12/19 16:33	08/15/19 00:09	1
PCB-1232	<0.18		0.18	0.035	mg/Kg	☼	08/12/19 16:33	08/15/19 00:09	1
PCB-1242	<0.18		0.18	0.035	mg/Kg	☼	08/12/19 16:33	08/15/19 00:09	1
PCB-1248	<0.18		0.18	0.035	mg/Kg	☼	08/12/19 16:33	08/15/19 00:09	1
PCB-1254	<0.18		0.18	0.084	mg/Kg	☼	08/12/19 16:33	08/15/19 00:09	1
PCB-1260	<0.18		0.18	0.084	mg/Kg	☼	08/12/19 16:33	08/15/19 00:09	1
PCB-1262	<0.18		0.18	0.084	mg/Kg	☼	08/12/19 16:33	08/15/19 00:09	1
PCB-1268	<0.18		0.18	0.084	mg/Kg	☼	08/12/19 16:33	08/15/19 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	124		60 - 154				08/12/19 16:33	08/15/19 00:09	1
Tetrachloro-m-xylene	99		60 - 154				08/12/19 16:33	08/15/19 00:09	1
DCB Decachlorobiphenyl	152		65 - 174				08/12/19 16:33	08/15/19 00:09	1

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-CONC-5-(3)

Lab Sample ID: 480-157382-13

Date Collected: 08/07/19 09:55

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 97.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
DCB Decachlorobiphenyl	142		65 - 174	08/12/19 16:33	08/15/19 00:09	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Method: 8260C - TCLP Volatiles

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	TOL (80-120)	BFB (73-120)	DBFM (75-123)
LCS 480-487220/5	Lab Control Sample	110	99	98	105
MB 480-487220/7	Method Blank	113	99	97	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	TOL (80-120)	BFB (73-120)	DBFM (75-123)
480-157382-1	VER-COMP-C3	116	97	97	115
480-157382-2	VER-CONC-3-DISCRETE	119	101	99	113
480-157382-3	VER-COMP-C1	115	102	99	109
480-157382-4	VER-CONC-7-DISCRETE	113	103	98	107
LB 480-486999/1-A	Method Blank	117	102	100	113

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	TPHd14 (59-136)	PHL (22-120)
LCS 480-487281/2-A	Lab Control Sample	97	95	51	78	103	34
LCSD 480-487281/3-A	Lab Control Sample Dup	86	89	50	88	102	33
MB 480-487281/1-A	Method Blank	79	94	52	85	105	34

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

PHL = Phenol-d5 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	TPHd14 (59-136)	PHL (22-120)
480-157382-1	VER-COMP-C3	101	97	52	87	110	35

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Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	TPHd14 (59-136)	PHL (22-120)
480-157382-2	VER-CONC-3-DISCRETE	95	92	49	87	96	31
480-157382-3	VER-COMP-C1	89	104	55	94	108	34
480-157382-4	VER-CONC-7-DISCRETE	94	100	50	100	112	34
LB 480-486996/1-F	Method Blank	95	94	50	94	119	33
LB 480-487175/1-D	Method Blank	83	92	53	92	106	34

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

PHL = Phenol-d5 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-157382-5	VER-CONC-7-(9)	107	86	128	115
480-157382-6	VER-CONC-2-(9)	87	74	106	97
480-157382-7	VER-CONC-1-(9)	114	93	141	124
480-157382-8	VER-CONC-6-(3)	110	89	126	127
480-157382-9	VER-CONC-7-(3)	74	59 X	77	78
480-157382-10	VER-CONC-2-(3)	117	92	155	135
480-157382-11	VER-CONC-1-(3)	111	91	143	129
480-157382-12	VER-CONC-3-(3)	90	73	104	101
480-157382-13	VER-CONC-5-(3)	124	99	152	142
LCS 480-486581/2-A	Lab Control Sample	102	88	116	129
MB 480-486581/1-A	Method Blank	102	84	106	123

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-487220/7

Matrix: Solid

Analysis Batch: 487220

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0010		0.0010	0.00041	mg/L			08/15/19 13:52	1
Carbon tetrachloride	<0.0010		0.0010	0.00027	mg/L			08/15/19 13:52	1
Chlorobenzene	<0.0010		0.0010	0.00075	mg/L			08/15/19 13:52	1
Chloroform	<0.0010		0.0010	0.00034	mg/L			08/15/19 13:52	1
1,2-Dichloroethane	<0.0010		0.0010	0.00021	mg/L			08/15/19 13:52	1
1,1-Dichloroethene	<0.0010		0.0010	0.00029	mg/L			08/15/19 13:52	1
2-Butanone (MEK)	<0.0050		0.0050	0.0013	mg/L			08/15/19 13:52	1
Tetrachloroethene	<0.0010		0.0010	0.00036	mg/L			08/15/19 13:52	1
Trichloroethene	<0.0010		0.0010	0.00046	mg/L			08/15/19 13:52	1
Vinyl chloride	<0.0010		0.0010	0.00090	mg/L			08/15/19 13:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		08/15/19 13:52	1
Toluene-d8 (Surr)	99		80 - 120		08/15/19 13:52	1
4-Bromofluorobenzene (Surr)	97		73 - 120		08/15/19 13:52	1
Dibromofluoromethane (Surr)	105		75 - 123		08/15/19 13:52	1

Lab Sample ID: LCS 480-487220/5

Matrix: Solid

Analysis Batch: 487220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0250	0.0237		mg/L		95	71 - 124
Carbon tetrachloride	0.0250	0.0238		mg/L		95	72 - 134
Chlorobenzene	0.0250	0.0235		mg/L		94	80 - 120
Chloroform	0.0250	0.0244		mg/L		98	73 - 127
1,2-Dichloroethane	0.0250	0.0270		mg/L		108	75 - 120
1,1-Dichloroethene	0.0250	0.0232		mg/L		93	66 - 127
2-Butanone (MEK)	0.125	0.139		mg/L		111	57 - 140
Tetrachloroethene	0.0250	0.0230		mg/L		92	74 - 122
Trichloroethene	0.0250	0.0245		mg/L		98	74 - 123
Vinyl chloride	0.0250	0.0252		mg/L		101	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		77 - 120
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	105		75 - 123

Lab Sample ID: LB 480-486999/1-A

Matrix: Solid

Analysis Batch: 487220

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.010	0.0041	mg/L			08/15/19 14:49	10
Carbon tetrachloride	<0.010		0.010	0.0027	mg/L			08/15/19 14:49	10
Chlorobenzene	<0.010		0.010	0.0075	mg/L			08/15/19 14:49	10
Chloroform	<0.010		0.010	0.0034	mg/L			08/15/19 14:49	10

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QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-486999/1-A

Matrix: Solid

Analysis Batch: 487220

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.010		0.010	0.0021	mg/L			08/15/19 14:49	10
1,1-Dichloroethene	<0.010		0.010	0.0029	mg/L			08/15/19 14:49	10
2-Butanone (MEK)	<0.050		0.050	0.013	mg/L			08/15/19 14:49	10
Tetrachloroethene	<0.010		0.010	0.0036	mg/L			08/15/19 14:49	10
Trichloroethene	<0.010		0.010	0.0046	mg/L			08/15/19 14:49	10
Vinyl chloride	<0.010		0.010	0.0090	mg/L			08/15/19 14:49	10

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		77 - 120		08/15/19 14:49	10
Toluene-d8 (Surr)	102		80 - 120		08/15/19 14:49	10
4-Bromofluorobenzene (Surr)	100		73 - 120		08/15/19 14:49	10
Dibromofluoromethane (Surr)	113		75 - 123		08/15/19 14:49	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-487281/1-A

Matrix: Solid

Analysis Batch: 487429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.010		0.010	0.00045	mg/L		08/15/19 14:55	08/16/19 13:05	1
2,4-Dinitrotoluene	<0.0050		0.0050	0.00043	mg/L		08/15/19 14:55	08/16/19 13:05	1
Hexachlorobenzene	<0.0050		0.0050	0.00050	mg/L		08/15/19 14:55	08/16/19 13:05	1
Hexachlorobutadiene	<0.0050		0.0050	0.00068	mg/L		08/15/19 14:55	08/16/19 13:05	1
Hexachloroethane	<0.0050		0.0050	0.00058	mg/L		08/15/19 14:55	08/16/19 13:05	1
3-Methylphenol	<0.010		0.010	0.00040	mg/L		08/15/19 14:55	08/16/19 13:05	1
2-Methylphenol	<0.0050		0.0050	0.00040	mg/L		08/15/19 14:55	08/16/19 13:05	1
4-Methylphenol	<0.010		0.010	0.00035	mg/L		08/15/19 14:55	08/16/19 13:05	1
Nitrobenzene	<0.0050		0.0050	0.00028	mg/L		08/15/19 14:55	08/16/19 13:05	1
Pentachlorophenol	<0.010		0.010	0.0022	mg/L		08/15/19 14:55	08/16/19 13:05	1
Pyridine	<0.025		0.025	0.00040	mg/L		08/15/19 14:55	08/16/19 13:05	1
2,4,5-Trichlorophenol	<0.0050		0.0050	0.00048	mg/L		08/15/19 14:55	08/16/19 13:05	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.00060	mg/L		08/15/19 14:55	08/16/19 13:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		41 - 120	08/15/19 14:55	08/16/19 13:05	1
2-Fluorobiphenyl	94		48 - 120	08/15/19 14:55	08/16/19 13:05	1
2-Fluorophenol (Surr)	52		35 - 120	08/15/19 14:55	08/16/19 13:05	1
Nitrobenzene-d5 (Surr)	85		46 - 120	08/15/19 14:55	08/16/19 13:05	1
p-Terphenyl-d14 (Surr)	105		59 - 136	08/15/19 14:55	08/16/19 13:05	1
Phenol-d5 (Surr)	34		22 - 120	08/15/19 14:55	08/16/19 13:05	1

Lab Sample ID: LCS 480-487281/2-A

Matrix: Solid

Analysis Batch: 487429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0345		mg/L		69	51 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-487281/2-A

Matrix: Solid

Analysis Batch: 487429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	0.0500	0.0500		mg/L		100	69 - 120
Hexachlorobenzene	0.0500	0.0465		mg/L		93	61 - 120
Hexachlorobutadiene	0.0500	0.0392		mg/L		78	35 - 120
Hexachloroethane	0.0500	0.0316		mg/L		63	43 - 120
3-Methylphenol	0.0500	0.0347		mg/L		69	39 - 120
2-Methylphenol	0.0500	0.0371		mg/L		74	39 - 120
4-Methylphenol	0.0500	0.0347		mg/L		69	29 - 131
Nitrobenzene	0.0500	0.0414		mg/L		83	53 - 123
Pentachlorophenol	0.100	0.0774		mg/L		77	29 - 136
Pyridine	0.100	0.0366		mg/L		37	10 - 120
2,4,5-Trichlorophenol	0.0500	0.0496		mg/L		99	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0547		mg/L		109	64 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	97		41 - 120
2-Fluorobiphenyl	95		48 - 120
2-Fluorophenol (Surr)	51		35 - 120
Nitrobenzene-d5 (Surr)	78		46 - 120
p-Terphenyl-d14 (Surr)	103		59 - 136
Phenol-d5 (Surr)	34		22 - 120

Lab Sample ID: LCSD 480-487281/3-A

Matrix: Solid

Analysis Batch: 487429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 487281

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,4-Dichlorobenzene	0.0500	0.0361		mg/L		72	51 - 120	4	36
2,4-Dinitrotoluene	0.0500	0.0513		mg/L		103	69 - 120	2	20
Hexachlorobenzene	0.0500	0.0446		mg/L		89	61 - 120	4	15
Hexachlorobutadiene	0.0500	0.0402		mg/L		80	35 - 120	2	44
Hexachloroethane	0.0500	0.0330		mg/L		66	43 - 120	4	46
3-Methylphenol	0.0500	0.0370		mg/L		74	39 - 120	6	30
2-Methylphenol	0.0500	0.0394		mg/L		79	39 - 120	6	27
4-Methylphenol	0.0500	0.0370		mg/L		74	29 - 131	6	24
Nitrobenzene	0.0500	0.0462		mg/L		92	53 - 123	11	24
Pentachlorophenol	0.100	0.0723		mg/L		72	29 - 136	7	37
Pyridine	0.100	0.0330		mg/L		33	10 - 120	10	49
2,4,5-Trichlorophenol	0.0500	0.0474		mg/L		95	65 - 126	5	18
2,4,6-Trichlorophenol	0.0500	0.0485		mg/L		97	64 - 120	12	19

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		41 - 120
2-Fluorobiphenyl	89		48 - 120
2-Fluorophenol (Surr)	50		35 - 120
Nitrobenzene-d5 (Surr)	88		46 - 120
p-Terphenyl-d14 (Surr)	102		59 - 136
Phenol-d5 (Surr)	33		22 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 480-486996/1-F

Matrix: Solid

Analysis Batch: 487429

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 487281

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.040		0.040	0.0018	mg/L		08/15/19 14:55	08/16/19 14:17	1
2,4-Dinitrotoluene	<0.020		0.020	0.0017	mg/L		08/15/19 14:55	08/16/19 14:17	1
Hexachlorobenzene	<0.020		0.020	0.0020	mg/L		08/15/19 14:55	08/16/19 14:17	1
Hexachlorobutadiene	<0.020		0.020	0.0027	mg/L		08/15/19 14:55	08/16/19 14:17	1
Hexachloroethane	<0.020		0.020	0.0023	mg/L		08/15/19 14:55	08/16/19 14:17	1
3-Methylphenol	<0.040		0.040	0.0016	mg/L		08/15/19 14:55	08/16/19 14:17	1
2-Methylphenol	<0.020		0.020	0.0016	mg/L		08/15/19 14:55	08/16/19 14:17	1
4-Methylphenol	<0.040		0.040	0.0014	mg/L		08/15/19 14:55	08/16/19 14:17	1
Nitrobenzene	<0.020		0.020	0.0011	mg/L		08/15/19 14:55	08/16/19 14:17	1
Pentachlorophenol	<0.040		0.040	0.0088	mg/L		08/15/19 14:55	08/16/19 14:17	1
Pyridine	<0.10		0.10	0.0016	mg/L		08/15/19 14:55	08/16/19 14:17	1
2,4,5-Trichlorophenol	<0.020		0.020	0.0019	mg/L		08/15/19 14:55	08/16/19 14:17	1
2,4,6-Trichlorophenol	<0.020		0.020	0.0024	mg/L		08/15/19 14:55	08/16/19 14:17	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		41 - 120	08/15/19 14:55	08/16/19 14:17	1
2-Fluorobiphenyl	94		48 - 120	08/15/19 14:55	08/16/19 14:17	1
2-Fluorophenol (Surr)	50		35 - 120	08/15/19 14:55	08/16/19 14:17	1
Nitrobenzene-d5 (Surr)	94		46 - 120	08/15/19 14:55	08/16/19 14:17	1
p-Terphenyl-d14 (Surr)	119		59 - 136	08/15/19 14:55	08/16/19 14:17	1
Phenol-d5 (Surr)	33		22 - 120	08/15/19 14:55	08/16/19 14:17	1

Lab Sample ID: LB 480-487175/1-D

Matrix: Solid

Analysis Batch: 487429

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 487281

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.040		0.040	0.0018	mg/L		08/15/19 14:55	08/16/19 14:42	1
2,4-Dinitrotoluene	<0.020		0.020	0.0017	mg/L		08/15/19 14:55	08/16/19 14:42	1
Hexachlorobenzene	<0.020		0.020	0.0020	mg/L		08/15/19 14:55	08/16/19 14:42	1
Hexachlorobutadiene	<0.020		0.020	0.0027	mg/L		08/15/19 14:55	08/16/19 14:42	1
Hexachloroethane	<0.020		0.020	0.0023	mg/L		08/15/19 14:55	08/16/19 14:42	1
3-Methylphenol	<0.040		0.040	0.0016	mg/L		08/15/19 14:55	08/16/19 14:42	1
2-Methylphenol	<0.020		0.020	0.0016	mg/L		08/15/19 14:55	08/16/19 14:42	1
4-Methylphenol	<0.040		0.040	0.0014	mg/L		08/15/19 14:55	08/16/19 14:42	1
Nitrobenzene	<0.020		0.020	0.0011	mg/L		08/15/19 14:55	08/16/19 14:42	1
Pentachlorophenol	<0.040		0.040	0.0088	mg/L		08/15/19 14:55	08/16/19 14:42	1
Pyridine	<0.10		0.10	0.0016	mg/L		08/15/19 14:55	08/16/19 14:42	1
2,4,5-Trichlorophenol	<0.020		0.020	0.0019	mg/L		08/15/19 14:55	08/16/19 14:42	1
2,4,6-Trichlorophenol	<0.020		0.020	0.0024	mg/L		08/15/19 14:55	08/16/19 14:42	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		41 - 120	08/15/19 14:55	08/16/19 14:42	1
2-Fluorobiphenyl	92		48 - 120	08/15/19 14:55	08/16/19 14:42	1
2-Fluorophenol (Surr)	53		35 - 120	08/15/19 14:55	08/16/19 14:42	1
Nitrobenzene-d5 (Surr)	92		46 - 120	08/15/19 14:55	08/16/19 14:42	1
p-Terphenyl-d14 (Surr)	106		59 - 136	08/15/19 14:55	08/16/19 14:42	1
Phenol-d5 (Surr)	34		22 - 120	08/15/19 14:55	08/16/19 14:42	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-486581/1-A

Matrix: Solid

Analysis Batch: 487009

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.23		0.23	0.046	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1221	<0.23		0.23	0.046	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1232	<0.23		0.23	0.046	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1242	<0.23		0.23	0.046	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1248	<0.23		0.23	0.046	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1254	<0.23		0.23	0.11	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1260	<0.23		0.23	0.11	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1262	<0.23		0.23	0.11	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1268	<0.23		0.23	0.11	mg/Kg		08/12/19 16:33	08/14/19 19:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		60 - 154	08/12/19 16:33	08/14/19 19:24	1
Tetrachloro-m-xylene	84		60 - 154	08/12/19 16:33	08/14/19 19:24	1
DCB Decachlorobiphenyl	106		65 - 174	08/12/19 16:33	08/14/19 19:24	1
DCB Decachlorobiphenyl	123		65 - 174	08/12/19 16:33	08/14/19 19:24	1

Lab Sample ID: LCS 480-486581/2-A

Matrix: Solid

Analysis Batch: 487009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	2.42	2.27		mg/Kg		94	51 - 185
PCB-1260	2.42	2.49		mg/Kg		103	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	102		60 - 154
Tetrachloro-m-xylene	88		60 - 154
DCB Decachlorobiphenyl	116		65 - 174
DCB Decachlorobiphenyl	129		65 - 174

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-487200/2-A

Matrix: Solid

Analysis Batch: 487504

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487200

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.015		0.015	0.0056	mg/L		08/15/19 10:29	08/16/19 10:25	1
Barium	<1.0		1.0	0.10	mg/L		08/15/19 10:29	08/16/19 10:25	1
Cadmium	<0.0020		0.0020	0.00050	mg/L		08/15/19 10:29	08/16/19 10:25	1
Chromium	<0.020		0.020	0.010	mg/L		08/15/19 10:29	08/16/19 10:25	1
Lead	<0.020		0.020	0.0030	mg/L		08/15/19 10:29	08/16/19 10:25	1
Selenium	<0.025		0.025	0.0087	mg/L		08/15/19 10:29	08/16/19 10:25	1
Silver	<0.0060		0.0060	0.0017	mg/L		08/15/19 10:29	08/16/19 10:25	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-487200/3-A

Matrix: Solid

Analysis Batch: 487504

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487200

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.09		mg/L		109	80 - 120
Barium	1.00	0.947	J	mg/L		95	80 - 120
Cadmium	1.00	1.03		mg/L		103	80 - 120
Chromium	1.00	1.00		mg/L		100	80 - 120
Lead	1.00	0.979		mg/L		98	80 - 120
Selenium	1.00	1.04		mg/L		104	80 - 120
Silver	1.00	1.08		mg/L		108	80 - 120

Lab Sample ID: MB 480-487203/2-A

Matrix: Solid

Analysis Batch: 487623

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487203

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.015		0.015	0.0056	mg/L		08/15/19 10:29	08/16/19 11:14	1
Barium	<1.0		1.0	0.10	mg/L		08/15/19 10:29	08/16/19 11:14	1
Cadmium	<0.0020		0.0020	0.00050	mg/L		08/15/19 10:29	08/16/19 11:14	1
Chromium	<0.020		0.020	0.010	mg/L		08/15/19 10:29	08/16/19 11:14	1
Lead	<0.020		0.020	0.0030	mg/L		08/15/19 10:29	08/16/19 11:14	1
Selenium	<0.025		0.025	0.0087	mg/L		08/15/19 10:29	08/16/19 11:14	1
Silver	<0.0060		0.0060	0.0017	mg/L		08/15/19 10:29	08/16/19 11:14	1

Lab Sample ID: LCS 480-487203/3-A

Matrix: Solid

Analysis Batch: 487623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487203

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.00		mg/L		100	80 - 120
Barium	1.00	0.973	J	mg/L		97	80 - 120
Cadmium	1.00	0.991		mg/L		99	80 - 120
Chromium	1.00	1.01		mg/L		101	80 - 120
Lead	1.00	0.944		mg/L		94	80 - 120
Selenium	1.00	0.989		mg/L		99	80 - 120
Silver	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: LB 480-486996/1-B

Matrix: Solid

Analysis Batch: 487504

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 487200

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.015		0.015	0.0056	mg/L		08/15/19 10:29	08/16/19 10:10	1
Barium	<1.0		1.0	0.10	mg/L		08/15/19 10:29	08/16/19 10:10	1
Cadmium	<0.0020		0.0020	0.00050	mg/L		08/15/19 10:29	08/16/19 10:10	1
Chromium	<0.020		0.020	0.010	mg/L		08/15/19 10:29	08/16/19 10:10	1
Lead	<0.020		0.020	0.0030	mg/L		08/15/19 10:29	08/16/19 10:10	1
Selenium	<0.025		0.025	0.0087	mg/L		08/15/19 10:29	08/16/19 10:10	1
Silver	<0.0060		0.0060	0.0017	mg/L		08/15/19 10:29	08/16/19 10:10	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LB 480-487175/1-B

Matrix: Solid

Analysis Batch: 487623

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 487203

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.015		0.015	0.0056	mg/L		08/15/19 10:29	08/16/19 11:10	1
Barium	<1.0		1.0	0.10	mg/L		08/15/19 10:29	08/16/19 11:10	1
Cadmium	<0.0020		0.0020	0.00050	mg/L		08/15/19 10:29	08/16/19 11:10	1
Chromium	<0.020		0.020	0.010	mg/L		08/15/19 10:29	08/16/19 11:10	1
Lead	<0.020		0.020	0.0030	mg/L		08/15/19 10:29	08/16/19 11:10	1
Selenium	<0.025		0.025	0.0087	mg/L		08/15/19 10:29	08/16/19 11:10	1
Silver	<0.0060		0.0060	0.0017	mg/L		08/15/19 10:29	08/16/19 11:10	1

Lab Sample ID: 480-157382-1 MS

Matrix: Solid

Analysis Batch: 487623

Client Sample ID: VER-COMP-C3

Prep Type: TCLP

Prep Batch: 487203

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0058	J	1.00	1.18		mg/L		117	75 - 125
Barium	0.25	J	1.00	1.27		mg/L		103	75 - 125
Cadmium	<0.0020		1.00	1.11		mg/L		111	75 - 125
Chromium	0.017	J	1.00	1.03		mg/L		102	75 - 125
Lead	<0.020		1.00	1.01		mg/L		101	75 - 125
Selenium	<0.025		1.00	1.11		mg/L		111	75 - 125
Silver	<0.0060		1.00	1.16		mg/L		116	75 - 125

Lab Sample ID: 480-157382-1 MSD

Matrix: Solid

Analysis Batch: 487623

Client Sample ID: VER-COMP-C3

Prep Type: TCLP

Prep Batch: 487203

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0058	J	1.00	1.14		mg/L		113	75 - 125	3	20
Barium	0.25	J	1.00	1.22		mg/L		97	75 - 125	4	20
Cadmium	<0.0020		1.00	1.07		mg/L		107	75 - 125	4	20
Chromium	0.017	J	1.00	0.992		mg/L		98	75 - 125	4	20
Lead	<0.020		1.00	0.967		mg/L		97	75 - 125	4	20
Selenium	<0.025		1.00	1.08		mg/L		108	75 - 125	3	20
Silver	<0.0060		1.00	1.11		mg/L		111	75 - 125	5	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-487224/2-A

Matrix: Solid

Analysis Batch: 487331

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487224

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00012	mg/L		08/15/19 12:07	08/15/19 16:52	1

Lab Sample ID: LCS 480-487224/3-A

Matrix: Solid

Analysis Batch: 487331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487224

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00655		mg/L		98	80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: MB 480-487225/2-A
Matrix: Solid
Analysis Batch: 487331

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00012	mg/L	-	08/15/19 12:07	08/15/19 17:06	1

Lab Sample ID: LCS 480-487225/3-A
Matrix: Solid
Analysis Batch: 487331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00650		mg/L	-	97	80 - 120

Lab Sample ID: LB 480-487175/1-C
Matrix: Solid
Analysis Batch: 487331

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 487224

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00012	mg/L	-	08/15/19 12:07	08/15/19 16:50	1

Lab Sample ID: 480-157382-1 MS
Matrix: Solid
Analysis Batch: 487331

Client Sample ID: VER-COMP-C3
Prep Type: TCLP
Prep Batch: 487224

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00668	0.00615		mg/L	-	92	80 - 120

Lab Sample ID: 480-157382-1 MSD
Matrix: Solid
Analysis Batch: 487331

Client Sample ID: VER-COMP-C3
Prep Type: TCLP
Prep Batch: 487224

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD Limit
Mercury	<0.00020		0.00668	0.00627		mg/L	-	94	80 - 120	20

Lab Sample ID: LB 480-486996/1-E
Matrix: Solid
Analysis Batch: 487331

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 487225

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00012	mg/L	-	08/15/19 12:07	08/15/19 17:02	1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-486826/1
Matrix: Solid
Analysis Batch: 486826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	80.00		Degrees F	-	99	97.5 - 102.5

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method (Continued)

Lab Sample ID: 480-157382-2 DU

Matrix: Solid

Analysis Batch: 486826

Client Sample ID: VER-CONC-3-DISCRETE

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Flashpoint	>176		>176		Degrees F		NC	10

Lab Sample ID: LCS 480-487309/1

Matrix: Solid

Analysis Batch: 487309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	80.00		Degrees F		99	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-487072/1-A

Matrix: Solid

Analysis Batch: 487279

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	<10.0		10.0	10.0	mg/Kg		08/14/19 13:41	08/15/19 12:50	1

Lab Sample ID: LCS 480-487072/2-A

Matrix: Solid

Analysis Batch: 487279

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	452.5		mg/Kg		45	10 - 100

Lab Sample ID: 480-157382-3 DU

Matrix: Solid

Analysis Batch: 487279

Client Sample ID: VER-COMP-C1

Prep Type: Total/NA

Prep Batch: 487072

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cyanide, Reactive	<10		<10		mg/Kg		NC	20

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-487073/1-A

Matrix: Solid

Analysis Batch: 487240

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	<10.0		10.0	10.0	mg/Kg		08/14/19 13:41	08/15/19 11:56	1

Lab Sample ID: LCS 480-487073/2-A

Matrix: Solid

Analysis Batch: 487240

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	700	701.3		mg/Kg		100	10 - 100

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Method: 9034 - Sulfide, Reactive (Continued)

Lab Sample ID: 480-157382-3 DU

Matrix: Solid

Analysis Batch: 487240

Client Sample ID: VER-COMP-C1

Prep Type: Total/NA

Prep Batch: 487073

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide, Reactive	<10		<10		mg/Kg		NC	20

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

GC/MS VOA

Leach Batch: 486999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	TCLP	Solid	1311	
480-157382-2	VER-CONC-3-DISCRETE	TCLP	Solid	1311	
480-157382-3	VER-COMP-C1	TCLP	Solid	1311	
480-157382-4	VER-CONC-7-DISCRETE	TCLP	Solid	1311	
LB 480-486999/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 487220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	TCLP	Solid	8260C	486999
480-157382-2	VER-CONC-3-DISCRETE	TCLP	Solid	8260C	486999
480-157382-3	VER-COMP-C1	TCLP	Solid	8260C	486999
480-157382-4	VER-CONC-7-DISCRETE	TCLP	Solid	8260C	486999
LB 480-486999/1-A	Method Blank	TCLP	Solid	8260C	486999
MB 480-487220/7	Method Blank	Total/NA	Solid	8260C	
LCS 480-487220/5	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 486996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-4	VER-CONC-7-DISCRETE	TCLP	Solid	1311	
LB 480-486996/1-F	Method Blank	TCLP	Solid	1311	

Leach Batch: 487175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	TCLP	Solid	1311	
480-157382-2	VER-CONC-3-DISCRETE	TCLP	Solid	1311	
480-157382-3	VER-COMP-C1	TCLP	Solid	1311	
LB 480-487175/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 487281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	TCLP	Solid	3510C	487175
480-157382-2	VER-CONC-3-DISCRETE	TCLP	Solid	3510C	487175
480-157382-3	VER-COMP-C1	TCLP	Solid	3510C	487175
480-157382-4	VER-CONC-7-DISCRETE	TCLP	Solid	3510C	486996
LB 480-486996/1-F	Method Blank	TCLP	Solid	3510C	486996
LB 480-487175/1-D	Method Blank	TCLP	Solid	3510C	487175
MB 480-487281/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-487281/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-487281/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 487429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	TCLP	Solid	8270D	487281
480-157382-2	VER-CONC-3-DISCRETE	TCLP	Solid	8270D	487281
480-157382-3	VER-COMP-C1	TCLP	Solid	8270D	487281
480-157382-4	VER-CONC-7-DISCRETE	TCLP	Solid	8270D	487281
LB 480-486996/1-F	Method Blank	TCLP	Solid	8270D	487281
LB 480-487175/1-D	Method Blank	TCLP	Solid	8270D	487281
MB 480-487281/1-A	Method Blank	Total/NA	Solid	8270D	487281

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QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

GC/MS Semi VOA (Continued)

Analysis Batch: 487429 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-487281/2-A	Lab Control Sample	Total/NA	Solid	8270D	487281
LCSD 480-487281/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	487281

GC Semi VOA

Prep Batch: 486581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-5	VER-CONC-7-(9)	Total/NA	Solid	3550C	
480-157382-6	VER-CONC-2-(9)	Total/NA	Solid	3550C	
480-157382-7	VER-CONC-1-(9)	Total/NA	Solid	3550C	
480-157382-8	VER-CONC-6-(3)	Total/NA	Solid	3550C	
480-157382-9	VER-CONC-7-(3)	Total/NA	Solid	3550C	
480-157382-10	VER-CONC-2-(3)	Total/NA	Solid	3550C	
480-157382-11	VER-CONC-1-(3)	Total/NA	Solid	3550C	
480-157382-12	VER-CONC-3-(3)	Total/NA	Solid	3550C	
480-157382-13	VER-CONC-5-(3)	Total/NA	Solid	3550C	
MB 480-486581/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-486581/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 487009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-5	VER-CONC-7-(9)	Total/NA	Solid	8082A	486581
480-157382-6	VER-CONC-2-(9)	Total/NA	Solid	8082A	486581
480-157382-7	VER-CONC-1-(9)	Total/NA	Solid	8082A	486581
480-157382-8	VER-CONC-6-(3)	Total/NA	Solid	8082A	486581
480-157382-9	VER-CONC-7-(3)	Total/NA	Solid	8082A	486581
480-157382-10	VER-CONC-2-(3)	Total/NA	Solid	8082A	486581
480-157382-11	VER-CONC-1-(3)	Total/NA	Solid	8082A	486581
480-157382-12	VER-CONC-3-(3)	Total/NA	Solid	8082A	486581
480-157382-13	VER-CONC-5-(3)	Total/NA	Solid	8082A	486581
MB 480-486581/1-A	Method Blank	Total/NA	Solid	8082A	486581
LCS 480-486581/2-A	Lab Control Sample	Total/NA	Solid	8082A	486581

Metals

Leach Batch: 486996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-4	VER-CONC-7-DISCRETE	TCLP	Solid	1311	
LB 480-486996/1-B	Method Blank	TCLP	Solid	1311	
LB 480-486996/1-E	Method Blank	TCLP	Solid	1311	

Leach Batch: 487175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	TCLP	Solid	1311	
480-157382-2	VER-CONC-3-DISCRETE	TCLP	Solid	1311	
480-157382-3	VER-COMP-C1	TCLP	Solid	1311	
LB 480-487175/1-B	Method Blank	TCLP	Solid	1311	
LB 480-487175/1-C	Method Blank	TCLP	Solid	1311	
480-157382-1 MS	VER-COMP-C3	TCLP	Solid	1311	
480-157382-1 MSD	VER-COMP-C3	TCLP	Solid	1311	

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Metals

Prep Batch: 487200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-4	VER-CONC-7-DISCRETE	TCLP	Solid	3010A	486996
LB 480-486996/1-B	Method Blank	TCLP	Solid	3010A	486996
MB 480-487200/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-487200/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 487203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	TCLP	Solid	3010A	487175
480-157382-2	VER-CONC-3-DISCRETE	TCLP	Solid	3010A	487175
480-157382-3	VER-COMP-C1	TCLP	Solid	3010A	487175
LB 480-487175/1-B	Method Blank	TCLP	Solid	3010A	487175
MB 480-487203/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-487203/3-A	Lab Control Sample	Total/NA	Solid	3010A	
480-157382-1 MS	VER-COMP-C3	TCLP	Solid	3010A	487175
480-157382-1 MSD	VER-COMP-C3	TCLP	Solid	3010A	487175

Prep Batch: 487224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	TCLP	Solid	7470A	487175
480-157382-2	VER-CONC-3-DISCRETE	TCLP	Solid	7470A	487175
480-157382-3	VER-COMP-C1	TCLP	Solid	7470A	487175
LB 480-487175/1-C	Method Blank	TCLP	Solid	7470A	487175
MB 480-487224/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-487224/3-A	Lab Control Sample	Total/NA	Solid	7470A	
480-157382-1 MS	VER-COMP-C3	TCLP	Solid	7470A	487175
480-157382-1 MSD	VER-COMP-C3	TCLP	Solid	7470A	487175

Prep Batch: 487225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-4	VER-CONC-7-DISCRETE	TCLP	Solid	7470A	486996
LB 480-486996/1-E	Method Blank	TCLP	Solid	7470A	486996
MB 480-487225/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-487225/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 487331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	TCLP	Solid	7470A	487224
480-157382-2	VER-CONC-3-DISCRETE	TCLP	Solid	7470A	487224
480-157382-3	VER-COMP-C1	TCLP	Solid	7470A	487224
480-157382-4	VER-CONC-7-DISCRETE	TCLP	Solid	7470A	487225
LB 480-486996/1-E	Method Blank	TCLP	Solid	7470A	487225
LB 480-487175/1-C	Method Blank	TCLP	Solid	7470A	487224
MB 480-487224/2-A	Method Blank	Total/NA	Solid	7470A	487224
MB 480-487225/2-A	Method Blank	Total/NA	Solid	7470A	487225
LCS 480-487224/3-A	Lab Control Sample	Total/NA	Solid	7470A	487224
LCS 480-487225/3-A	Lab Control Sample	Total/NA	Solid	7470A	487225
480-157382-1 MS	VER-COMP-C3	TCLP	Solid	7470A	487224
480-157382-1 MSD	VER-COMP-C3	TCLP	Solid	7470A	487224

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Metals

Analysis Batch: 487504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-4	VER-CONC-7-DISCRETE	TCLP	Solid	6010C	487200
LB 480-486996/1-B	Method Blank	TCLP	Solid	6010C	487200
MB 480-487200/2-A	Method Blank	Total/NA	Solid	6010C	487200
LCS 480-487200/3-A	Lab Control Sample	Total/NA	Solid	6010C	487200

Analysis Batch: 487623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	TCLP	Solid	6010C	487203
480-157382-2	VER-CONC-3-DISCRETE	TCLP	Solid	6010C	487203
480-157382-3	VER-COMP-C1	TCLP	Solid	6010C	487203
LB 480-487175/1-B	Method Blank	TCLP	Solid	6010C	487203
MB 480-487203/2-A	Method Blank	Total/NA	Solid	6010C	487203
LCS 480-487203/3-A	Lab Control Sample	Total/NA	Solid	6010C	487203
480-157382-1 MS	VER-COMP-C3	TCLP	Solid	6010C	487203
480-157382-1 MSD	VER-COMP-C3	TCLP	Solid	6010C	487203

General Chemistry

Analysis Batch: 486826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	Total/NA	Solid	1010A	
480-157382-2	VER-CONC-3-DISCRETE	Total/NA	Solid	1010A	
LCS 480-486826/1	Lab Control Sample	Total/NA	Solid	1010A	
480-157382-2 DU	VER-CONC-3-DISCRETE	Total/NA	Solid	1010A	

Prep Batch: 487072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	Total/NA	Solid	7.3.3	
480-157382-2	VER-CONC-3-DISCRETE	Total/NA	Solid	7.3.3	
480-157382-3	VER-COMP-C1	Total/NA	Solid	7.3.3	
480-157382-4	VER-CONC-7-DISCRETE	Total/NA	Solid	7.3.3	
MB 480-487072/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-487072/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	
480-157382-3 DU	VER-COMP-C1	Total/NA	Solid	7.3.3	

Prep Batch: 487073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	Total/NA	Solid	7.3.4	
480-157382-2	VER-CONC-3-DISCRETE	Total/NA	Solid	7.3.4	
480-157382-3	VER-COMP-C1	Total/NA	Solid	7.3.4	
480-157382-4	VER-CONC-7-DISCRETE	Total/NA	Solid	7.3.4	
MB 480-487073/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-487073/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
480-157382-3 DU	VER-COMP-C1	Total/NA	Solid	7.3.4	

Analysis Batch: 487240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	Total/NA	Solid	9034	487073
480-157382-2	VER-CONC-3-DISCRETE	Total/NA	Solid	9034	487073
480-157382-3	VER-COMP-C1	Total/NA	Solid	9034	487073
480-157382-4	VER-CONC-7-DISCRETE	Total/NA	Solid	9034	487073

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

General Chemistry (Continued)

Analysis Batch: 487240 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-487073/1-A	Method Blank	Total/NA	Solid	9034	487073
LCS 480-487073/2-A	Lab Control Sample	Total/NA	Solid	9034	487073
480-157382-3 DU	VER-COMP-C1	Total/NA	Solid	9034	487073

Analysis Batch: 487279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-1	VER-COMP-C3	Total/NA	Solid	9012	487072
480-157382-2	VER-CONC-3-DISCRETE	Total/NA	Solid	9012	487072
480-157382-3	VER-COMP-C1	Total/NA	Solid	9012	487072
480-157382-4	VER-CONC-7-DISCRETE	Total/NA	Solid	9012	487072
MB 480-487072/1-A	Method Blank	Total/NA	Solid	9012	487072
LCS 480-487072/2-A	Lab Control Sample	Total/NA	Solid	9012	487072
480-157382-3 DU	VER-COMP-C1	Total/NA	Solid	9012	487072

Analysis Batch: 487309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-3	VER-COMP-C1	Total/NA	Solid	1010A	
480-157382-4	VER-CONC-7-DISCRETE	Total/NA	Solid	1010A	
LCS 480-487309/1	Lab Control Sample	Total/NA	Solid	1010A	

Analysis Batch: 487753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157382-5	VER-CONC-7-(9)	Total/NA	Solid	Moisture	
480-157382-6	VER-CONC-2-(9)	Total/NA	Solid	Moisture	
480-157382-7	VER-CONC-1-(9)	Total/NA	Solid	Moisture	
480-157382-8	VER-CONC-6-(3)	Total/NA	Solid	Moisture	
480-157382-9	VER-CONC-7-(3)	Total/NA	Solid	Moisture	
480-157382-10	VER-CONC-2-(3)	Total/NA	Solid	Moisture	
480-157382-11	VER-CONC-1-(3)	Total/NA	Solid	Moisture	
480-157382-12	VER-CONC-3-(3)	Total/NA	Solid	Moisture	
480-157382-13	VER-CONC-5-(3)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-COMP-C3

Lab Sample ID: 480-157382-1

Date Collected: 08/07/19 10:00

Matrix: Solid

Date Received: 08/08/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			486999	08/14/19 12:35	LMS	TAL BUF
TCLP	Analysis	8260C		10	487220	08/15/19 15:38	OMI	TAL BUF
TCLP	Leach	1311			487175	08/15/19 08:22	LMS	TAL BUF
TCLP	Prep	3510C			487281	08/15/19 14:55	ATG	TAL BUF
TCLP	Analysis	8270D		1	487429	08/16/19 15:30	RJS	TAL BUF
TCLP	Leach	1311			487175	08/15/19 08:22	LMS	TAL BUF
TCLP	Prep	3010A			487203	08/15/19 10:29	KMP	TAL BUF
TCLP	Analysis	6010C		1	487623	08/16/19 11:22	EMB	TAL BUF
TCLP	Leach	1311			487175	08/15/19 08:22	LMS	TAL BUF
TCLP	Prep	7470A			487224	08/15/19 12:07	BMB	TAL BUF
TCLP	Analysis	7470A		1	487331	08/15/19 16:54	BMB	TAL BUF
Total/NA	Analysis	1010A		1	486826	08/13/19 16:50	MDL	TAL BUF
Total/NA	Prep	7.3.3			487072	08/14/19 13:41	MJB	TAL BUF
Total/NA	Analysis	9012		1	487279	08/15/19 12:50	MDL	TAL BUF
Total/NA	Prep	7.3.4			487073	08/14/19 13:41	MJB	TAL BUF
Total/NA	Analysis	9034		1	487240	08/15/19 11:56	MJB	TAL BUF

Client Sample ID: VER-CONC-3-DISCRETE

Lab Sample ID: 480-157382-2

Date Collected: 08/07/19 11:00

Matrix: Solid

Date Received: 08/08/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			486999	08/14/19 12:35	LMS	TAL BUF
TCLP	Analysis	8260C		10	487220	08/15/19 16:02	OMI	TAL BUF
TCLP	Leach	1311			487175	08/15/19 08:22	LMS	TAL BUF
TCLP	Prep	3510C			487281	08/15/19 14:55	ATG	TAL BUF
TCLP	Analysis	8270D		1	487429	08/16/19 15:54	RJS	TAL BUF
TCLP	Leach	1311			487175	08/15/19 08:22	LMS	TAL BUF
TCLP	Prep	3010A			487203	08/15/19 10:29	KMP	TAL BUF
TCLP	Analysis	6010C		1	487623	08/16/19 11:40	EMB	TAL BUF
TCLP	Leach	1311			487175	08/15/19 08:22	LMS	TAL BUF
TCLP	Prep	7470A			487224	08/15/19 12:07	BMB	TAL BUF
TCLP	Analysis	7470A		1	487331	08/15/19 16:59	BMB	TAL BUF
Total/NA	Analysis	1010A		1	486826	08/13/19 16:50	MDL	TAL BUF
Total/NA	Prep	7.3.3			487072	08/14/19 13:41	MJB	TAL BUF
Total/NA	Analysis	9012		1	487279	08/15/19 12:50	MDL	TAL BUF
Total/NA	Prep	7.3.4			487073	08/14/19 13:41	MJB	TAL BUF
Total/NA	Analysis	9034		1	487240	08/15/19 11:56	MJB	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-COMP-C1

Lab Sample ID: 480-157382-3

Date Collected: 08/06/19 12:20

Matrix: Solid

Date Received: 08/08/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			486999	08/14/19 12:35	LMS	TAL BUF
TCLP	Analysis	8260C		10	487220	08/15/19 16:26	OMI	TAL BUF
TCLP	Leach	1311			487175	08/15/19 08:22	LMS	TAL BUF
TCLP	Prep	3510C			487281	08/15/19 14:55	ATG	TAL BUF
TCLP	Analysis	8270D		1	487429	08/16/19 16:19	RJS	TAL BUF
TCLP	Leach	1311			487175	08/15/19 08:22	LMS	TAL BUF
TCLP	Prep	3010A			487203	08/15/19 10:29	KMP	TAL BUF
TCLP	Analysis	6010C		1	487623	08/16/19 11:55	EMB	TAL BUF
TCLP	Leach	1311			487175	08/15/19 08:22	LMS	TAL BUF
TCLP	Prep	7470A			487224	08/15/19 12:07	BMB	TAL BUF
TCLP	Analysis	7470A		1	487331	08/15/19 17:01	BMB	TAL BUF
Total/NA	Analysis	1010A		1	487309	08/15/19 16:25	MDL	TAL BUF
Total/NA	Prep	7.3.3			487072	08/14/19 13:41	MJB	TAL BUF
Total/NA	Analysis	9012		1	487279	08/15/19 12:50	MDL	TAL BUF
Total/NA	Prep	7.3.4			487073	08/14/19 13:41	MJB	TAL BUF
Total/NA	Analysis	9034		1	487240	08/15/19 11:56	MJB	TAL BUF

Client Sample ID: VER-CONC-7-DISCRETE

Lab Sample ID: 480-157382-4

Date Collected: 08/07/19 15:00

Matrix: Solid

Date Received: 08/08/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			486999	08/14/19 12:35	LMS	TAL BUF
TCLP	Analysis	8260C		10	487220	08/15/19 16:50	OMI	TAL BUF
TCLP	Leach	1311			486996	08/14/19 12:33	LMS	TAL BUF
TCLP	Prep	3510C			487281	08/15/19 14:55	ATG	TAL BUF
TCLP	Analysis	8270D		1	487429	08/16/19 16:43	RJS	TAL BUF
TCLP	Leach	1311			486996	08/14/19 12:33	LMS	TAL BUF
TCLP	Prep	3010A			487200	08/15/19 10:29	KMP	TAL BUF
TCLP	Analysis	6010C		1	487504	08/16/19 10:51	AMH	TAL BUF
TCLP	Leach	1311			486996	08/14/19 12:33	LMS	TAL BUF
TCLP	Prep	7470A			487225	08/15/19 12:07	BMB	TAL BUF
TCLP	Analysis	7470A		1	487331	08/15/19 17:14	BMB	TAL BUF
Total/NA	Analysis	1010A		1	487309	08/15/19 16:25	MDL	TAL BUF
Total/NA	Prep	7.3.3			487072	08/14/19 13:41	MJB	TAL BUF
Total/NA	Analysis	9012		1	487279	08/15/19 12:50	MDL	TAL BUF
Total/NA	Prep	7.3.4			487073	08/14/19 13:41	MJB	TAL BUF
Total/NA	Analysis	9034		1	487240	08/15/19 11:56	MJB	TAL BUF

Client Sample ID: VER-CONC-7-(9)

Lab Sample ID: 480-157382-5

Date Collected: 08/07/19 14:50

Matrix: Solid

Date Received: 08/08/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	487753	08/19/19 14:31	CMK	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-CONC-7-(9)

Date Collected: 08/07/19 14:50

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-5

Matrix: Solid

Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			486581	08/12/19 16:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	487009	08/14/19 22:30	W1T	TAL BUF

Client Sample ID: VER-CONC-2-(9)

Date Collected: 08/07/19 14:30

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	487753	08/19/19 14:31	CMK	TAL BUF

Client Sample ID: VER-CONC-2-(9)

Date Collected: 08/07/19 14:30

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-6

Matrix: Solid

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			486581	08/12/19 16:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	487009	08/14/19 22:42	W1T	TAL BUF

Client Sample ID: VER-CONC-1-(9)

Date Collected: 08/07/19 14:10

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	487753	08/19/19 14:31	CMK	TAL BUF

Client Sample ID: VER-CONC-1-(9)

Date Collected: 08/07/19 14:10

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-7

Matrix: Solid

Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			486581	08/12/19 16:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	487009	08/14/19 22:55	W1T	TAL BUF

Client Sample ID: VER-CONC-6-(3)

Date Collected: 08/07/19 10:15

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	487753	08/19/19 14:31	CMK	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-CONC-6-(3)

Lab Sample ID: 480-157382-8

Date Collected: 08/07/19 10:15

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			486581	08/12/19 16:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	487009	08/14/19 23:07	W1T	TAL BUF

Client Sample ID: VER-CONC-7-(3)

Lab Sample ID: 480-157382-9

Date Collected: 08/07/19 14:00

Matrix: Solid

Date Received: 08/08/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	487753	08/19/19 14:31	CMK	TAL BUF

Client Sample ID: VER-CONC-7-(3)

Lab Sample ID: 480-157382-9

Date Collected: 08/07/19 14:00

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			486581	08/12/19 16:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	487009	08/14/19 23:19	W1T	TAL BUF

Client Sample ID: VER-CONC-2-(3)

Lab Sample ID: 480-157382-10

Date Collected: 08/06/19 13:45

Matrix: Solid

Date Received: 08/08/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	487753	08/19/19 14:31	CMK	TAL BUF

Client Sample ID: VER-CONC-2-(3)

Lab Sample ID: 480-157382-10

Date Collected: 08/06/19 13:45

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			486581	08/12/19 16:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	487009	08/14/19 23:32	W1T	TAL BUF

Client Sample ID: VER-CONC-1-(3)

Lab Sample ID: 480-157382-11

Date Collected: 08/06/19 12:10

Matrix: Solid

Date Received: 08/08/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	487753	08/19/19 14:31	CMK	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Client Sample ID: VER-CONC-1-(3)

Date Collected: 08/06/19 12:10

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-11

Matrix: Solid

Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			486581	08/12/19 16:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	487009	08/14/19 23:44	W1T	TAL BUF

Client Sample ID: VER-CONC-3-(3)

Date Collected: 08/06/19 14:00

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	487753	08/19/19 14:31	CMK	TAL BUF

Client Sample ID: VER-CONC-3-(3)

Date Collected: 08/06/19 14:00

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-12

Matrix: Solid

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			486581	08/12/19 16:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	487009	08/14/19 23:57	W1T	TAL BUF

Client Sample ID: VER-CONC-5-(3)

Date Collected: 08/07/19 09:55

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	487753	08/19/19 14:31	CMK	TAL BUF

Client Sample ID: VER-CONC-5-(3)

Date Collected: 08/07/19 09:55

Date Received: 08/08/19 08:00

Lab Sample ID: 480-157382-13

Matrix: Solid

Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			486581	08/12/19 16:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	487009	08/15/19 00:09	W1T	TAL BUF

Laboratory References:

SC0154 = LaBella Associates PC, 300 State Street, Suite 201, Rochester, NY 14614

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Eurofins TestAmerica, Buffalo

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Method	Method Description	Protocol	Laboratory
8260C	TCLP Volatiles	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	TCLP Mercury	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
Subcontract	Asbestos	None	SC0154
1311	TCLP Extraction	SW846	TAL BUF
3010A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7.3.3	Cyanide, Reactive	SW846	TAL BUF
7.3.4	Sulfide, Reactive	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

SC0154 = LaBella Associates PC, 300 State Street, Suite 201, Rochester, NY 14614

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157382-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-157382-1	VER-COMP-C3	Solid	08/07/19 10:00	08/08/19 08:00	
480-157382-2	VER-CONC-3-DISCRETE	Solid	08/07/19 11:00	08/08/19 08:00	
480-157382-3	VER-COMP-C1	Solid	08/06/19 12:20	08/08/19 08:00	
480-157382-4	VER-CONC-7-DISCRETE	Solid	08/07/19 15:00	08/08/19 08:00	
480-157382-5	VER-CONC-7-(9)	Solid	08/07/19 14:50	08/08/19 08:00	
480-157382-6	VER-CONC-2-(9)	Solid	08/07/19 14:30	08/08/19 08:00	
480-157382-7	VER-CONC-1-(9)	Solid	08/07/19 14:10	08/08/19 08:00	
480-157382-8	VER-CONC-6-(3)	Solid	08/07/19 10:15	08/08/19 08:00	
480-157382-9	VER-CONC-7-(3)	Solid	08/07/19 14:00	08/08/19 08:00	
480-157382-10	VER-CONC-2-(3)	Solid	08/06/19 13:45	08/08/19 08:00	
480-157382-11	VER-CONC-1-(3)	Solid	08/06/19 12:10	08/08/19 08:00	
480-157382-12	VER-CONC-3-(3)	Solid	08/06/19 14:00	08/08/19 08:00	
480-157382-13	VER-CONC-5-(3)	Solid	08/07/19 09:55	08/08/19 08:00	

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[illegible]

Albany Chain of Custody Record #224

Eurofins TestAmerica, Buffalo
 10 Hazelwood Drive
 Amherst, NY 14228-2298
 Phone: 716-691-2600 Fax: 716-691-7991

eurofins
 Environment Testing
 TestAmerica

Client Information		Lab PM: Schove, John R		COC No: 480-133539-30079.1	
Client Contact: Mr. Scott Powlin		E-Mail: john.schove@testamericainc.com		Page 1 of 2	
Company: ARCADIS U.S. Inc		Address: One Lincoln Center 110 West Fayette St, Suite 300		City: Syracuse	
State, Zip: NY, 13202		Phone:		Due Date Requested:	
Email: scott.powlin@arcadis-us.com		Project Name: National Grid - Albany Service Center		TAT Requested (days): 5TD	
Site:		PO #:		Purchase Order not required	
WO #:		Project #:		SSOW#:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, A=air)
VER - Comp - G3	8-7-19	16:00	C	Solid	
VER - Conc - 3 - Discrete	8-7-19	11:00	G	Solid	
VER - Comp - C1	8-6-19	12:30	C	Solid	
VER - Conc - 7 - Discrete	8-7-19	15:00	G	Solid	
VER - Conc - 7 - (9")	8-7-19	14:50	G	Solid	
VER - Conc - 2 - (9")	8-7-19	14:30	G	Solid	
VER - Conc - 1 - (9")	8-7-19	14:10	G	Solid	
VER - Conc - 6 - (3")	8-7-19	10:15	G	Solid	
VER - Conc - 7 - (3")	8-7-19	14:00	G	Solid	
VER - Conc - 2 - (3")	8-6-19	13:45	G	Solid	
VER - Conc - 1 - (3")	8-6-19	12:10	G	Solid	
Possible Hazard Identification		☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Date:		Special Instructions/OC Requirements:	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: [Signature]		Date/Time: 8-7-19 15:46		Company: Eurofins	
Relinquished by: [Signature]		Date/Time: 8-7-19 18:00		Company: [Signature]	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: #1 2.9	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-157382-1

Login Number: 157382

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-157383-1

Client Project/Site: National Grid - Albany Service Center

For:

ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Scott Powlin



Authorized for release by:

8/23/2019 12:17:02 PM

Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838
john.schove@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Job ID: 480-157383-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-157383-1

Receipt

The sample was received on 8/8/2019 8:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Benzaldehyde. The laboratory control sample (LCS) associated with preparation batch 480-486399 and analytical batch 480-486943 recovered within acceptable limits for this analyte and has been qualified with an "E" flag. (LCS 480-486399/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: All primary data for analytical batch 487009 is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010C: The method blank for preparation batch 480-487729 and analytical batch 480-487999 contained Total Iron above the reporting limit (RL). Associated sample(s) VER-SBI-2 (1) (480-157383-1) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method(s) 3550C: Samples received in plastic container: VER-SBI-2 (1) (480-157383-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Client Sample ID: VER-SBI-2 (1)

Lab Sample ID: 480-157383-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	67		56	9.4	ug/Kg	1		✱	8260C	Total/NA
Acenaphthene	48	J	190	28	ug/Kg	1		✱	8270D	Total/NA
Anthracene	110	J	190	48	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]anthracene	320		190	19	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]pyrene	320		190	28	ug/Kg	1		✱	8270D	Total/NA
Benzo[b]fluoranthene	400		190	31	ug/Kg	1		✱	8270D	Total/NA
Benzo[g,h,i]perylene	290		190	20	ug/Kg	1		✱	8270D	Total/NA
Benzo[k]fluoranthene	190		190	25	ug/Kg	1		✱	8270D	Total/NA
Carbazole	45	J	190	23	ug/Kg	1		✱	8270D	Total/NA
Chrysene	320		190	43	ug/Kg	1		✱	8270D	Total/NA
Fluoranthene	620		190	20	ug/Kg	1		✱	8270D	Total/NA
Fluorene	37	J	190	23	ug/Kg	1		✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	240		190	24	ug/Kg	1		✱	8270D	Total/NA
Phenanthrene	480		190	28	ug/Kg	1		✱	8270D	Total/NA
Pyrene	670		190	23	ug/Kg	1		✱	8270D	Total/NA
Aluminum	6110		12.3	5.4	mg/Kg	1		✱	6010C	Total/NA
Arsenic	9.0		2.5	0.49	mg/Kg	1		✱	6010C	Total/NA
Barium	75.8		0.61	0.14	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.64		0.25	0.034	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.079	J	0.25	0.037	mg/Kg	1		✱	6010C	Total/NA
Calcium	6500	B	61.5	4.1	mg/Kg	1		✱	6010C	Total/NA
Chromium	29.6		0.61	0.25	mg/Kg	1		✱	6010C	Total/NA
Cobalt	8.8		0.61	0.061	mg/Kg	1		✱	6010C	Total/NA
Copper	94.8		1.2	0.26	mg/Kg	1		✱	6010C	Total/NA
Iron	19400	B	12.3	4.3	mg/Kg	1		✱	6010C	Total/NA
Lead	324		1.2	0.30	mg/Kg	1		✱	6010C	Total/NA
Magnesium	1210		24.6	1.1	mg/Kg	1		✱	6010C	Total/NA
Manganese	384		0.25	0.039	mg/Kg	1		✱	6010C	Total/NA
Nickel	25.6		6.1	0.28	mg/Kg	1		✱	6010C	Total/NA
Potassium	1040		36.9	24.6	mg/Kg	1		✱	6010C	Total/NA
Selenium	1.3	J	4.9	0.49	mg/Kg	1		✱	6010C	Total/NA
Sodium	312		172	16.0	mg/Kg	1		✱	6010C	Total/NA
Vanadium	25.6		0.61	0.14	mg/Kg	1		✱	6010C	Total/NA
Zinc	87.9		2.5	0.79	mg/Kg	1		✱	6010C	Total/NA
Mercury	0.82		0.024	0.0097	mg/Kg	1		✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Client Sample ID: VER-SBI-2 (1)

Lab Sample ID: 480-157383-1

Date Collected: 08/07/19 12:00

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 86.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<11		11	0.81	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
1,2-Dichlorobenzene	<11		11	0.87	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
1,1,2,2-Tetrachloroethane	<11		11	1.8	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
1,1,2-Trichloroethane	<11		11	1.4	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<11		11	2.5	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
1,1-Dichloroethane	<11		11	1.4	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
1,1-Dichloroethene	<11		11	1.4	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
1,2,4-Trichlorobenzene	<11		11	0.68	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
1,2-Dibromo-3-Chloropropane	<11		11	5.6	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
1,2-Dichloroethane	<11		11	0.56	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
1,2-Dichloropropane	<11		11	5.6	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
1,3-Dichlorobenzene	<11		11	0.57	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
1,4-Dichlorobenzene	<11		11	1.6	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
2-Butanone (MEK)	<56		56	4.1	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
2-Hexanone	<56		56	5.6	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
4-Methyl-2-pentanone (MIBK)	<56		56	3.7	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Acetone	67		56	9.4	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Benzene	<11		11	0.55	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Bromodichloromethane	<11		11	1.5	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Bromoform	<11		11	5.6	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Bromomethane	<11		11	1.0	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Carbon disulfide	<11		11	5.6	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Carbon tetrachloride	<11		11	1.1	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Chlorobenzene	<11		11	1.5	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Dibromochloromethane	<11		11	1.4	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Chloroethane	<11		11	2.5	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Chloroform	<11		11	0.69	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Chloromethane	<11		11	0.67	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
cis-1,2-Dichloroethene	<11		11	1.4	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
cis-1,3-Dichloropropene	<11		11	1.6	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Cyclohexane	<11		11	1.6	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Dichlorodifluoromethane	<11		11	0.92	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Ethylbenzene	<11		11	0.77	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
1,2-Dibromoethane	<11		11	1.4	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Isopropylbenzene	<11		11	1.7	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Methyl acetate	<56		56	6.7	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Methyl tert-butyl ether	<11		11	1.1	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Methylcyclohexane	<11		11	1.7	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Methylene Chloride	<11		11	5.1	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Styrene	<11		11	0.56	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Tetrachloroethene	<11		11	1.5	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Toluene	<11		11	0.84	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
trans-1,2-Dichloroethene	<11		11	1.1	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
trans-1,3-Dichloropropene	<11		11	4.9	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Trichloroethene	<11		11	2.5	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Trichlorofluoromethane	<11		11	1.1	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Vinyl chloride	<11		11	1.4	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1
Xylenes, Total	<22		22	1.9	ug/Kg	☼	08/09/19 09:00	08/12/19 11:50	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Client Sample ID: VER-SBI-2 (1)

Lab Sample ID: 480-157383-1

Date Collected: 08/07/19 12:00

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 86.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 125	08/09/19 09:00	08/12/19 11:50	1
1,2-Dichloroethane-d4 (Surr)	109		64 - 126	08/09/19 09:00	08/12/19 11:50	1
4-Bromofluorobenzene (Surr)	102		72 - 126	08/09/19 09:00	08/12/19 11:50	1
Dibromofluoromethane (Surr)	109		60 - 140	08/09/19 09:00	08/12/19 11:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	<190		190	28	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
bis (2-chloroisopropyl) ether	<190		190	38	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
2,4,5-Trichlorophenol	<190		190	52	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
2,4,6-Trichlorophenol	<190		190	38	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
2,4-Dichlorophenol	<190		190	20	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
2,4-Dimethylphenol	<190		190	46	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
2,4-Dinitrophenol	<1900		1900	890	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
2,4-Dinitrotoluene	<190		190	40	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
2,6-Dinitrotoluene	<190		190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
2-Chloronaphthalene	<190		190	32	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
2-Chlorophenol	<190		190	35	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
2-Methylnaphthalene	<190		190	38	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
2-Methylphenol	<190		190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
2-Nitroaniline	<370		370	28	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
2-Nitrophenol	<190		190	54	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
3,3'-Dichlorobenzidine	<370		370	230	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
3-Nitroaniline	<370		370	53	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
4,6-Dinitro-2-methylphenol	<370		370	190	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
4-Bromophenyl phenyl ether	<190		190	27	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
4-Chloro-3-methylphenol	<190		190	48	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
4-Chloroaniline	<190		190	48	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
4-Chlorophenyl phenyl ether	<190		190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
4-Methylphenol	<370		370	23	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
4-Nitroaniline	<370		370	100	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
4-Nitrophenol	<370		370	130	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Acenaphthene	48	J	190	28	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Acenaphthylene	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Acetophenone	<190		190	26	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Anthracene	110	J	190	48	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Atrazine	<190		190	67	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Benzaldehyde	<190		190	150	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Benzo[a]anthracene	320		190	19	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Benzo[a]pyrene	320		190	28	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Benzo[b]fluoranthene	400		190	31	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Benzo[g,h,i]perylene	290		190	20	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Benzo[k]fluoranthene	190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Bis(2-chloroethoxy)methane	<190		190	41	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Bis(2-chloroethyl)ether	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Bis(2-ethylhexyl) phthalate	<190		190	66	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Butyl benzyl phthalate	<190		190	32	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Caprolactam	<190		190	58	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Carbazole	45	J	190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Chrysene	320		190	43	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Client Sample ID: VER-SBI-2 (1)

Lab Sample ID: 480-157383-1

Date Collected: 08/07/19 12:00

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<190		190	33	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Di-n-octyl phthalate	<190		190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Dibenz(a,h)anthracene	<190		190	34	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Dibenzofuran	<190		190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Diethyl phthalate	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Dimethyl phthalate	<190		190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Fluoranthene	620		190	20	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Fluorene	37 J		190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Hexachlorobenzene	<190		190	26	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Hexachlorobutadiene	<190		190	28	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Hexachlorocyclopentadiene	<190		190	26	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Hexachloroethane	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Indeno[1,2,3-cd]pyrene	240		190	24	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Isophorone	<190		190	41	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
N-Nitrosodi-n-propylamine	<190		190	33	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
N-Nitrosodiphenylamine	<190		190	160	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Naphthalene	<190		190	25	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Nitrobenzene	<190		190	21	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Pentachlorophenol	<370		370	190	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Phenanthrene	480		190	28	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Phenol	<190		190	29	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1
Pyrene	670		190	23	ug/Kg	☼	08/12/19 06:31	08/14/19 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		54 - 120	08/12/19 06:31	08/14/19 18:51	1
2-Fluorobiphenyl	104		60 - 120	08/12/19 06:31	08/14/19 18:51	1
2-Fluorophenol (Surr)	76		52 - 120	08/12/19 06:31	08/14/19 18:51	1
Nitrobenzene-d5 (Surr)	87		53 - 120	08/12/19 06:31	08/14/19 18:51	1
p-Terphenyl-d14 (Surr)	112		65 - 121	08/12/19 06:31	08/14/19 18:51	1
Phenol-d5 (Surr)	77		54 - 120	08/12/19 06:31	08/14/19 18:51	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.26		0.26	0.051	mg/Kg	☼	08/12/19 16:33	08/15/19 00:21	1
PCB-1221	<0.26		0.26	0.051	mg/Kg	☼	08/12/19 16:33	08/15/19 00:21	1
PCB-1232	<0.26		0.26	0.051	mg/Kg	☼	08/12/19 16:33	08/15/19 00:21	1
PCB-1242	<0.26		0.26	0.051	mg/Kg	☼	08/12/19 16:33	08/15/19 00:21	1
PCB-1248	<0.26		0.26	0.051	mg/Kg	☼	08/12/19 16:33	08/15/19 00:21	1
PCB-1254	<0.26		0.26	0.12	mg/Kg	☼	08/12/19 16:33	08/15/19 00:21	1
PCB-1260	<0.26		0.26	0.12	mg/Kg	☼	08/12/19 16:33	08/15/19 00:21	1
PCB-1262	<0.26		0.26	0.12	mg/Kg	☼	08/12/19 16:33	08/15/19 00:21	1
PCB-1268	<0.26		0.26	0.12	mg/Kg	☼	08/12/19 16:33	08/15/19 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	118		60 - 154	08/12/19 16:33	08/15/19 00:21	1
Tetrachloro-m-xylene	103		60 - 154	08/12/19 16:33	08/15/19 00:21	1
DCB Decachlorobiphenyl	133		65 - 174	08/12/19 16:33	08/15/19 00:21	1
DCB Decachlorobiphenyl	132		65 - 174	08/12/19 16:33	08/15/19 00:21	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Client Sample ID: VER-SBI-2 (1)

Lab Sample ID: 480-157383-1

Date Collected: 08/07/19 12:00

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 86.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6110		12.3	5.4	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Antimony	<18.4		18.4	0.49	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Arsenic	9.0		2.5	0.49	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Barium	75.8		0.61	0.14	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Beryllium	0.64		0.25	0.034	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Cadmium	0.079	J	0.25	0.037	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Calcium	6500	B	61.5	4.1	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Chromium	29.6		0.61	0.25	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Cobalt	8.8		0.61	0.061	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Copper	94.8		1.2	0.26	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Iron	19400	B	12.3	4.3	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Lead	324		1.2	0.30	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Magnesium	1210		24.6	1.1	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Manganese	384		0.25	0.039	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Nickel	25.6		6.1	0.28	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Potassium	1040		36.9	24.6	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Selenium	1.3	J	4.9	0.49	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Silver	<0.74		0.74	0.25	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Sodium	312		172	16.0	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Thallium	<7.4		7.4	0.37	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Vanadium	25.6		0.61	0.14	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1
Zinc	87.9		2.5	0.79	mg/Kg	☼	08/20/19 05:58	08/20/19 15:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.82		0.024	0.0097	mg/Kg	☼	08/20/19 12:58	08/20/19 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<1.1	F1	1.1	0.54	mg/Kg	☼	08/12/19 14:55	08/12/19 16:37	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (71-125)	DCA (64-126)	BFB (72-126)	DBFM (60-140)
480-157383-1	VER-SBI-2 (1)	101	109	102	109
LCS 480-486427/1-A	Lab Control Sample	102	101	105	104
MB 480-486427/2-A	Method Blank	101	106	104	109

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	TPHd14 (65-121)	PHL (54-120)
480-157383-1	VER-SBI-2 (1)	87	104	76	87	112	77
LCS 480-486399/2-A	Lab Control Sample	91	103	76	85	117	72
MB 480-486399/1-A	Method Blank	79	102	80	87	111	76

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-157383-1	VER-SBI-2 (1)	118	103	133	132
LCS 480-486581/2-A	Lab Control Sample	102	88	116	129
MB 480-486581/1-A	Method Blank	102	84	106	123

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-486427/2-A

Matrix: Solid

Analysis Batch: 486397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0	0.36	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
1,2-Dichlorobenzene	<5.0		5.0	0.39	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.81	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
1,1,2-Trichloroethane	<5.0		5.0	0.65	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0	1.1	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
1,1-Dichloroethane	<5.0		5.0	0.61	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
1,1-Dichloroethene	<5.0		5.0	0.61	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
1,2,4-Trichlorobenzene	<5.0		5.0	0.30	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.5	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
1,2-Dichloroethane	<5.0		5.0	0.25	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
1,2-Dichloropropane	<5.0		5.0	2.5	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
1,3-Dichlorobenzene	<5.0		5.0	0.26	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
1,4-Dichlorobenzene	<5.0		5.0	0.70	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
2-Butanone (MEK)	<25		25	1.8	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
2-Hexanone	<25		25	2.5	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
4-Methyl-2-pentanone (MIBK)	<25		25	1.6	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Acetone	<25		25	4.2	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Benzene	<5.0		5.0	0.25	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Bromodichloromethane	<5.0		5.0	0.67	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Bromoform	<5.0		5.0	2.5	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Bromomethane	<5.0		5.0	0.45	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Carbon disulfide	<5.0		5.0	2.5	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Carbon tetrachloride	<5.0		5.0	0.48	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Chlorobenzene	<5.0		5.0	0.66	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Dibromochloromethane	<5.0		5.0	0.64	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Chloroethane	<5.0		5.0	1.1	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Chloroform	<5.0		5.0	0.31	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Chloromethane	<5.0		5.0	0.30	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
cis-1,2-Dichloroethene	<5.0		5.0	0.64	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
cis-1,3-Dichloropropene	<5.0		5.0	0.72	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Cyclohexane	<5.0		5.0	0.70	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Dichlorodifluoromethane	<5.0		5.0	0.41	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Ethylbenzene	<5.0		5.0	0.35	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
1,2-Dibromoethane	<5.0		5.0	0.64	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Isopropylbenzene	<5.0		5.0	0.75	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Methyl acetate	<25		25	3.0	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Methyl tert-butyl ether	<5.0		5.0	0.49	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Methylcyclohexane	<5.0		5.0	0.76	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Methylene Chloride	<5.0		5.0	2.3	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Styrene	<5.0		5.0	0.25	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Tetrachloroethene	<5.0		5.0	0.67	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Toluene	<5.0		5.0	0.38	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
trans-1,2-Dichloroethene	<5.0		5.0	0.52	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
trans-1,3-Dichloropropene	<5.0		5.0	2.2	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Trichloroethene	<5.0		5.0	1.1	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Trichlorofluoromethane	<5.0		5.0	0.47	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Vinyl chloride	<5.0		5.0	0.61	ug/Kg		08/12/19 07:00	08/12/19 08:28	1
Xylenes, Total	<10		10	0.84	ug/Kg		08/12/19 07:00	08/12/19 08:28	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-486427/2-A

Matrix: Solid

Analysis Batch: 486397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486427

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 125	08/12/19 07:00	08/12/19 08:28	1
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	08/12/19 07:00	08/12/19 08:28	1
4-Bromofluorobenzene (Surr)	104		72 - 126	08/12/19 07:00	08/12/19 08:28	1
Dibromofluoromethane (Surr)	109		60 - 140	08/12/19 07:00	08/12/19 08:28	1

Lab Sample ID: LCS 480-486427/1-A

Matrix: Solid

Analysis Batch: 486397

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	56.8		ug/Kg		114	77 - 121
1,2-Dichlorobenzene	50.0	50.0		ug/Kg		100	75 - 120
1,1,2,2-Tetrachloroethane	50.0	47.0		ug/Kg		94	80 - 120
1,1,2-Trichloroethane	50.0	50.5		ug/Kg		101	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.4		ug/Kg		115	60 - 140
1,1-Dichloroethane	50.0	54.4		ug/Kg		109	73 - 126
1,1-Dichloroethene	50.0	56.3		ug/Kg		113	59 - 125
1,2,4-Trichlorobenzene	50.0	51.6		ug/Kg		103	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	44.2		ug/Kg		88	63 - 124
1,2-Dichloroethane	50.0	52.8		ug/Kg		106	77 - 122
1,2-Dichloropropane	50.0	54.0		ug/Kg		108	75 - 124
1,3-Dichlorobenzene	50.0	51.9		ug/Kg		104	74 - 120
1,4-Dichlorobenzene	50.0	51.4		ug/Kg		103	73 - 120
2-Butanone (MEK)	250	247		ug/Kg		99	70 - 134
2-Hexanone	250	232		ug/Kg		93	59 - 130
4-Methyl-2-pentanone (MIBK)	250	230		ug/Kg		92	65 - 133
Acetone	250	234		ug/Kg		94	61 - 137
Benzene	50.0	54.0		ug/Kg		108	79 - 127
Bromodichloromethane	50.0	56.5		ug/Kg		113	80 - 122
Bromoform	50.0	57.4		ug/Kg		115	68 - 126
Bromomethane	50.0	54.0		ug/Kg		108	37 - 149
Carbon disulfide	50.0	54.9		ug/Kg		110	64 - 131
Carbon tetrachloride	50.0	58.7		ug/Kg		117	75 - 135
Chlorobenzene	50.0	53.9		ug/Kg		108	76 - 124
Dibromochloromethane	50.0	56.8		ug/Kg		114	76 - 125
Chloroethane	50.0	53.7		ug/Kg		107	69 - 135
Chloroform	50.0	54.0		ug/Kg		108	80 - 120
Chloromethane	50.0	46.2		ug/Kg		92	63 - 127
cis-1,2-Dichloroethene	50.0	55.5		ug/Kg		111	81 - 120
cis-1,3-Dichloropropene	50.0	55.9		ug/Kg		112	80 - 120
Cyclohexane	50.0	52.3		ug/Kg		105	65 - 120
Dichlorodifluoromethane	50.0	43.0		ug/Kg		86	57 - 142
Ethylbenzene	50.0	53.7		ug/Kg		107	80 - 120
1,2-Dibromoethane	50.0	52.1		ug/Kg		104	78 - 120
Isopropylbenzene	50.0	51.9		ug/Kg		104	72 - 120
Methyl acetate	100	104		ug/Kg		104	55 - 136
Methyl tert-butyl ether	50.0	52.0		ug/Kg		104	63 - 125
Methylcyclohexane	50.0	53.9		ug/Kg		108	60 - 140

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-486427/1-A

Matrix: Solid

Analysis Batch: 486397

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	52.2		ug/Kg		104	61 - 127
Styrene	50.0	53.9		ug/Kg		108	80 - 120
Tetrachloroethene	50.0	55.8		ug/Kg		112	74 - 122
Toluene	50.0	53.7		ug/Kg		107	74 - 128
trans-1,2-Dichloroethene	50.0	56.7		ug/Kg		113	78 - 126
Trichloroethene	50.0	55.4		ug/Kg		111	77 - 129
Trichlorofluoromethane	50.0	58.8		ug/Kg		118	65 - 146
Vinyl chloride	50.0	50.8		ug/Kg		102	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		71 - 125
1,2-Dichloroethane-d4 (Surr)	101		64 - 126
4-Bromofluorobenzene (Surr)	105		72 - 126
Dibromofluoromethane (Surr)	104		60 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-486399/1-A

Matrix: Solid

Analysis Batch: 486943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
bis (2-chloroisopropyl) ether	<170		170	33	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4,5-Trichlorophenol	<170		170	45	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4,6-Trichlorophenol	<170		170	33	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4-Dichlorophenol	<170		170	18	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4-Dimethylphenol	<170		170	40	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4-Dinitrophenol	<1600		1600	770	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,4-Dinitrotoluene	<170		170	34	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2,6-Dinitrotoluene	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Chloronaphthalene	<170		170	28	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Chlorophenol	<170		170	30	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Methylnaphthalene	<170		170	33	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Methylphenol	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Nitroaniline	<320		320	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
2-Nitrophenol	<170		170	47	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
3,3'-Dichlorobenzidine	<320		320	200	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
3-Nitroaniline	<320		320	46	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4,6-Dinitro-2-methylphenol	<320		320	170	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Bromophenyl phenyl ether	<170		170	24	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Chloro-3-methylphenol	<170		170	41	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Chloroaniline	<170		170	41	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Chlorophenyl phenyl ether	<170		170	21	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Methylphenol	<320		320	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Nitroaniline	<320		320	87	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
4-Nitrophenol	<320		320	120	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Acenaphthene	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Acenaphthylene	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-486399/1-A

Matrix: Solid

Analysis Batch: 486943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<170		170	23	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Anthracene	<170		170	41	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Atrazine	<170		170	58	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzaldehyde	<170		170	130	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[a]anthracene	<170		170	17	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[a]pyrene	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[b]fluoranthene	<170		170	27	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[g,h,i]perylene	<170		170	18	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Benzo[k]fluoranthene	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Bis(2-chloroethyl)ether	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Bis(2-ethylhexyl) phthalate	<170		170	57	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Butyl benzyl phthalate	<170		170	28	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Caprolactam	<170		170	50	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Carbazole	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Chrysene	<170		170	37	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Di-n-butyl phthalate	<170		170	28	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Di-n-octyl phthalate	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Dibenz(a,h)anthracene	<170		170	29	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Dibenzofuran	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Diethyl phthalate	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Dimethyl phthalate	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Fluoranthene	<170		170	18	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Fluorene	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Hexachlorobenzene	<170		170	23	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Hexachlorobutadiene	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Hexachlorocyclopentadiene	<170		170	23	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Hexachloroethane	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Indeno[1,2,3-cd]pyrene	<170		170	21	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Isophorone	<170		170	35	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
N-Nitrosodi-n-propylamine	<170		170	28	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
N-Nitrosodiphenylamine	<170		170	140	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Naphthalene	<170		170	22	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Nitrobenzene	<170		170	19	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Pentachlorophenol	<320		320	170	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Phenanthrene	<170		170	25	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Phenol	<170		170	26	ug/Kg		08/12/19 06:31	08/14/19 12:42	1
Pyrene	<170		170	20	ug/Kg		08/12/19 06:31	08/14/19 12:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		54 - 120	08/12/19 06:31	08/14/19 12:42	1
2-Fluorobiphenyl	102		60 - 120	08/12/19 06:31	08/14/19 12:42	1
2-Fluorophenol (Surr)	80		52 - 120	08/12/19 06:31	08/14/19 12:42	1
Nitrobenzene-d5 (Surr)	87		53 - 120	08/12/19 06:31	08/14/19 12:42	1
p-Terphenyl-d14 (Surr)	111		65 - 121	08/12/19 06:31	08/14/19 12:42	1
Phenol-d5 (Surr)	76		54 - 120	08/12/19 06:31	08/14/19 12:42	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-486399/2-A

Matrix: Solid

Analysis Batch: 486943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1650	1720		ug/Kg		104	59 - 120
bis (2-chloroisopropyl) ether	1650	1130		ug/Kg		69	44 - 120
2,4,5-Trichlorophenol	1650	1700		ug/Kg		103	59 - 126
2,4,6-Trichlorophenol	1650	1910		ug/Kg		116	59 - 123
2,4-Dichlorophenol	1650	1630		ug/Kg		99	61 - 120
2,4-Dimethylphenol	1650	1470		ug/Kg		89	59 - 120
2,4-Dinitrophenol	3300	2310		ug/Kg		70	41 - 146
2,4-Dinitrotoluene	1650	1540		ug/Kg		93	63 - 120
2,6-Dinitrotoluene	1650	1570		ug/Kg		95	66 - 120
2-Chloronaphthalene	1650	1750		ug/Kg		106	57 - 120
2-Chlorophenol	1650	1390		ug/Kg		84	53 - 120
2-Methylnaphthalene	1650	1580		ug/Kg		96	59 - 120
2-Methylphenol	1650	1370		ug/Kg		83	54 - 120
2-Nitroaniline	1650	1470		ug/Kg		89	61 - 120
2-Nitrophenol	1650	1450		ug/Kg		88	56 - 120
3,3'-Dichlorobenzidine	3300	3410		ug/Kg		103	54 - 120
3-Nitroaniline	1650	1420		ug/Kg		86	48 - 120
4,6-Dinitro-2-methylphenol	3300	3300		ug/Kg		100	49 - 122
4-Bromophenyl phenyl ether	1650	1720		ug/Kg		104	58 - 120
4-Chloro-3-methylphenol	1650	1540		ug/Kg		94	61 - 120
4-Chloroaniline	1650	1260		ug/Kg		76	38 - 120
4-Chlorophenyl phenyl ether	1650	1710		ug/Kg		104	63 - 124
4-Methylphenol	1650	1390		ug/Kg		84	55 - 120
4-Nitroaniline	1650	1420		ug/Kg		86	56 - 120
4-Nitrophenol	3300	2720		ug/Kg		82	43 - 147
Acenaphthene	1650	1610		ug/Kg		98	62 - 120
Acenaphthylene	1650	1620		ug/Kg		98	58 - 121
Acetophenone	1650	1380		ug/Kg		83	54 - 120
Anthracene	1650	1720		ug/Kg		104	62 - 120
Atrazine	3300	3490		ug/Kg		106	60 - 127
Benzaldehyde	3300	2830	E	ug/Kg		86	10 - 150
Benzo[a]anthracene	1650	1650		ug/Kg		100	65 - 120
Benzo[a]pyrene	1650	1710		ug/Kg		103	64 - 120
Benzo[b]fluoranthene	1650	1860		ug/Kg		113	64 - 120
Benzo[g,h,i]perylene	1650	1690		ug/Kg		102	45 - 145
Benzo[k]fluoranthene	1650	1840		ug/Kg		111	65 - 120
Bis(2-chloroethoxy)methane	1650	1370		ug/Kg		83	55 - 120
Bis(2-chloroethyl)ether	1650	1360		ug/Kg		83	45 - 120
Bis(2-ethylhexyl) phthalate	1650	1680		ug/Kg		102	61 - 133
Butyl benzyl phthalate	1650	1720		ug/Kg		104	61 - 129
Caprolactam	3300	2980		ug/Kg		90	47 - 120
Carbazole	1650	1600		ug/Kg		97	65 - 120
Chrysene	1650	1760		ug/Kg		107	64 - 120
Di-n-butyl phthalate	1650	1710		ug/Kg		103	58 - 130
Di-n-octyl phthalate	1650	1580		ug/Kg		96	57 - 133
Dibenz(a,h)anthracene	1650	1720		ug/Kg		104	54 - 132
Dibenzofuran	1650	1710		ug/Kg		104	63 - 120
Diethyl phthalate	1650	1720		ug/Kg		104	66 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-486399/2-A

Matrix: Solid

Analysis Batch: 486943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	1650	1660		ug/Kg		100	65 - 124
Fluoranthene	1650	1660		ug/Kg		100	62 - 120
Fluorene	1650	1700		ug/Kg		103	63 - 120
Hexachlorobenzene	1650	1490		ug/Kg		90	60 - 120
Hexachlorobutadiene	1650	1720		ug/Kg		104	45 - 120
Hexachlorocyclopentadiene	1650	1570		ug/Kg		95	47 - 120
Hexachloroethane	1650	1310		ug/Kg		79	41 - 120
Indeno[1,2,3-cd]pyrene	1650	1630		ug/Kg		99	56 - 134
Isophorone	1650	1510		ug/Kg		92	56 - 120
N-Nitrosodi-n-propylamine	1650	1310		ug/Kg		79	52 - 120
Naphthalene	1650	1530		ug/Kg		93	55 - 120
Nitrobenzene	1650	1500		ug/Kg		91	54 - 120
Pentachlorophenol	3300	2770		ug/Kg		84	51 - 120
Phenanthrene	1650	1650		ug/Kg		100	60 - 120
Phenol	1650	1220		ug/Kg		74	53 - 120
Pyrene	1650	1770		ug/Kg		107	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	91		54 - 120
2-Fluorobiphenyl	103		60 - 120
2-Fluorophenol (Surr)	76		52 - 120
Nitrobenzene-d5 (Surr)	85		53 - 120
p-Terphenyl-d14 (Surr)	117		65 - 121
Phenol-d5 (Surr)	72		54 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-486581/1-A

Matrix: Solid

Analysis Batch: 487009

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.23		0.23	0.046	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1221	<0.23		0.23	0.046	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1232	<0.23		0.23	0.046	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1242	<0.23		0.23	0.046	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1248	<0.23		0.23	0.046	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1254	<0.23		0.23	0.11	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1260	<0.23		0.23	0.11	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1262	<0.23		0.23	0.11	mg/Kg		08/12/19 16:33	08/14/19 19:24	1
PCB-1268	<0.23		0.23	0.11	mg/Kg		08/12/19 16:33	08/14/19 19:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		60 - 154	08/12/19 16:33	08/14/19 19:24	1
Tetrachloro-m-xylene	84		60 - 154	08/12/19 16:33	08/14/19 19:24	1
DCB Decachlorobiphenyl	106		65 - 174	08/12/19 16:33	08/14/19 19:24	1
DCB Decachlorobiphenyl	123		65 - 174	08/12/19 16:33	08/14/19 19:24	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-486581/2-A

Matrix: Solid

Analysis Batch: 487009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 486581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.42	2.27		mg/Kg		94	51 - 185
PCB-1260	2.42	2.49		mg/Kg		103	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	102		60 - 154
Tetrachloro-m-xylene	88		60 - 154
DCB Decachlorobiphenyl	116		65 - 174
DCB Decachlorobiphenyl	129		65 - 174

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-487729/1-A

Matrix: Solid

Analysis Batch: 487999

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<9.8		9.8	4.3	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Antimony	<14.7		14.7	0.39	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Arsenic	<2.0		2.0	0.39	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Barium	<0.49		0.49	0.11	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Beryllium	<0.20		0.20	0.028	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Cadmium	<0.20		0.20	0.029	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Calcium	9.91 J		49.1	3.2	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Chromium	<0.49		0.49	0.20	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Cobalt	<0.49		0.49	0.049	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Copper	<0.98		0.98	0.21	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Iron	27.52		9.8	3.4	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Lead	<0.98		0.98	0.24	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Magnesium	<19.7		19.7	0.91	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Manganese	<0.20		0.20	0.031	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Nickel	<4.9		4.9	0.23	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Potassium	<29.5		29.5	19.7	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Selenium	<3.9		3.9	0.39	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Silver	<0.59		0.59	0.20	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Sodium	<138		138	12.8	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Thallium	<5.9		5.9	0.29	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Vanadium	<0.49		0.49	0.11	mg/Kg		08/20/19 05:58	08/20/19 13:26	1
Zinc	<2.0		2.0	0.63	mg/Kg		08/20/19 05:58	08/20/19 13:26	1

Lab Sample ID: LCSSRM 480-487729/2-A

Matrix: Solid

Analysis Batch: 487999

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487729

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10100	9195		mg/Kg		91.0	41.6 - 123.8
Antimony	173	65.86		mg/Kg		38.1	10.0 - 134.1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-487729/2-A

Matrix: Solid

Analysis Batch: 487999

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487729

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	221	183.6		mg/Kg		83.1	63.8 - 119.0
Barium	288	239.7		mg/Kg		83.2	70.5 - 117.4
Cadmium	153	125.2		mg/Kg		81.9	68.6 - 115.0
Calcium	5190	4135		mg/Kg		79.7	65.7 - 115.6
Chromium	179	148.7		mg/Kg		83.1	65.4 - 121.2
Copper	113	92.62		mg/Kg		82.0	71.4 - 118.6
Iron	15000	14120		mg/Kg		94.1	35.7 - 160.7
Lead	74.5	76.41		mg/Kg		102.6	67.8 - 130.3
Magnesium	2570	2193		mg/Kg		85.3	55.6 - 124.1
Manganese	348	313.1		mg/Kg		90.0	71.3 - 118.4
Nickel	98.0	90.17		mg/Kg		92.0	63.8 - 118.4
Potassium	2630	2298		mg/Kg		87.4	51.7 - 119.0
Selenium	54.4	44.35		mg/Kg		81.5	53.3 - 130.0
Silver	75.5	65.41		mg/Kg		86.6	66.6 - 121.7
Sodium	226	202.3		mg/Kg		89.5	39.2 - 133.2
Thallium	64.7	58.25		mg/Kg		90.0	55.0 - 126.0
Zinc	281	229.8		mg/Kg		81.8	65.8 - 122.4

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-487785/1-A

Matrix: Solid

Analysis Batch: 487932

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0077	mg/Kg		08/20/19 12:58	08/20/19 13:59	1

Lab Sample ID: LCSSRM 480-487785/2-A ^5

Matrix: Solid

Analysis Batch: 487932

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487785

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	4.85	3.36		mg/Kg		69.2	46.0 - 107.0

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-486555/1-A
Matrix: Solid
Analysis Batch: 486586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.97		0.97	0.47	mg/Kg		08/12/19 14:55	08/12/19 16:15	1

Lab Sample ID: LCSSRM 480-486555/2-A ^10
Matrix: Solid
Analysis Batch: 486586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486555

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	42.2	10.62		mg/Kg		25.2	9.5 - 128. 0

Lab Sample ID: 480-157383-1 MS
Matrix: Solid
Analysis Batch: 486586

Client Sample ID: VER-SBI-2 (1)
Prep Type: Total/NA
Prep Batch: 486555

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	<1.1	F1	1.38	2.15	F1	mg/Kg	✱	156	85 - 115

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

GC/MS VOA

Analysis Batch: 486397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157383-1	VER-SBI-2 (1)	Total/NA	Solid	8260C	486427
MB 480-486427/2-A	Method Blank	Total/NA	Solid	8260C	486427
LCS 480-486427/1-A	Lab Control Sample	Total/NA	Solid	8260C	486427

Prep Batch: 486427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157383-1	VER-SBI-2 (1)	Total/NA	Solid	5035A_L	
MB 480-486427/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-486427/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 486399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157383-1	VER-SBI-2 (1)	Total/NA	Solid	3550C	
MB 480-486399/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-486399/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 486943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157383-1	VER-SBI-2 (1)	Total/NA	Solid	8270D	486399
MB 480-486399/1-A	Method Blank	Total/NA	Solid	8270D	486399
LCS 480-486399/2-A	Lab Control Sample	Total/NA	Solid	8270D	486399

GC Semi VOA

Prep Batch: 486581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157383-1	VER-SBI-2 (1)	Total/NA	Solid	3550C	
MB 480-486581/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-486581/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 487009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157383-1	VER-SBI-2 (1)	Total/NA	Solid	8082A	486581
MB 480-486581/1-A	Method Blank	Total/NA	Solid	8082A	486581
LCS 480-486581/2-A	Lab Control Sample	Total/NA	Solid	8082A	486581

Metals

Prep Batch: 487729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157383-1	VER-SBI-2 (1)	Total/NA	Solid	3050B	
MB 480-487729/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-487729/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 487785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157383-1	VER-SBI-2 (1)	Total/NA	Solid	7471B	
MB 480-487785/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-487785/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Metals

Analysis Batch: 487932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157383-1	VER-SBI-2 (1)	Total/NA	Solid	7471B	487785
MB 480-487785/1-A	Method Blank	Total/NA	Solid	7471B	487785
LCSSRM 480-487785/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	487785

Analysis Batch: 487999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157383-1	VER-SBI-2 (1)	Total/NA	Solid	6010C	487729
MB 480-487729/1-A	Method Blank	Total/NA	Solid	6010C	487729
LCSSRM 480-487729/2-A	Lab Control Sample	Total/NA	Solid	6010C	487729

General Chemistry

Prep Batch: 486555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157383-1	VER-SBI-2 (1)	Total/NA	Solid	9012B	
MB 480-486555/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-486555/2-A ^10	Lab Control Sample	Total/NA	Solid	9012B	
480-157383-1 MS	VER-SBI-2 (1)	Total/NA	Solid	9012B	

Analysis Batch: 486586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157383-1	VER-SBI-2 (1)	Total/NA	Solid	9012B	486555
MB 480-486555/1-A	Method Blank	Total/NA	Solid	9012B	486555
LCSSRM 480-486555/2-A ^10	Lab Control Sample	Total/NA	Solid	9012B	486555
480-157383-1 MS	VER-SBI-2 (1)	Total/NA	Solid	9012B	486555

Analysis Batch: 487753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157383-1	VER-SBI-2 (1)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Client Sample ID: VER-SBI-2 (1)

Lab Sample ID: 480-157383-1

Date Collected: 08/07/19 12:00

Matrix: Solid

Date Received: 08/08/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	487753	08/19/19 14:31	CMK	TAL BUF

Client Sample ID: VER-SBI-2 (1)

Lab Sample ID: 480-157383-1

Date Collected: 08/07/19 12:00

Matrix: Solid

Date Received: 08/08/19 08:00

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			486427	08/09/19 09:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	486397	08/12/19 11:50	CDC	TAL BUF
Total/NA	Prep	3550C			486399	08/12/19 06:31	SMP	TAL BUF
Total/NA	Analysis	8270D		1	486943	08/14/19 18:51	PJQ	TAL BUF
Total/NA	Prep	3550C			486581	08/12/19 16:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	487009	08/15/19 00:21	W1T	TAL BUF
Total/NA	Prep	3050B			487729	08/20/19 05:58	NSW	TAL BUF
Total/NA	Analysis	6010C		1	487999	08/20/19 15:09	AMH	TAL BUF
Total/NA	Prep	7471B			487785	08/20/19 12:58	BMB	TAL BUF
Total/NA	Analysis	7471B		1	487932	08/20/19 14:21	BMB	TAL BUF
Total/NA	Prep	9012B			486555	08/12/19 14:55	AJL	TAL BUF
Total/NA	Analysis	9012B		1	486586	08/12/19 16:37	MDL	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: National Grid - Albany Service Center

Job ID: 480-157383-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-157383-1	VER-SBI-2 (1)	Solid	08/07/19 12:00	08/08/19 08:00	

1

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Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-157383-1

Login Number: 157383

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	FREEZE TIME 8/9/19 09:00
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	